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Scientific Notebook No. 466: Numerical
Modeling of Stress Perturbation Around Faults
in the Vicinity of Yucca Mountain (07/13/2001
through 12/04/2003)

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**Numerical modeling of stress perturbation
around faults in the vicinity of Yucca Mountain, NV**

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Consulting Geologist

This work is conducted in consultation with Dr. David Ferril (Southwest Research Institute) and Dr. William Dunne (Consulting Geologist).

Hypothesis tested:

Activity on one or more faults in the vicinity of Yucca Mountain perturbed the local stress field and influenced the orientation of joints presently visible in the field.

Approach:

A boundary-element method computer code is used to calculate the orientation of the principal stresses at grid points surrounding modeled faults subjected to a regional stress field. The orientation of the principal stresses are compared to the observed orientation (strike) of joints. A successful model will show the least-compressive principal stress striking perpendicular to observed joint orientations.

Theoretical background:

Fundamental to this approach is the understanding that joints are Mode I (opening) fractures and that they form perpendicular to the least-compressive principal stress.

The numerical code is built on principles of continuum mechanics that describe the mathematical relationships between stress, strain, and displacements. These principals are widely applied in the Earth Sciences, and outlined in numerous textbooks (e.g. Jaeger & Cook, 1976). The crust is modeled as a uniform elastic material. This is a great simplification, but one that has proven useful in studies of earthquakes and faulting (see e.g. Scholz, 1991). Deformation in the model is driven by remote stresses, the magnitude and orientation of which are derived from geologic studies. An additional, isotropic, lithostatic load is superimposed on the solution. The magnitude of the lithostatic load increases linearly with depth by the density of the rock multiplied by gravitation acceleration. The influence of friction on the faults is omitted.

The numerical solution is deterministic. The problem is posed as many simultaneous equations, computed in one large matrix inversion. This is a well-tested approach. Principles are reviewed in Crouch and Starfield (1983).

About the numerical code:

The modeling study is conducted using Poly3d, a C-language code. The code was developed at Stanford University, and described in detail by Thomas (1993). Poly3d is distributed by the Geomechanics Program at Stanford, and available via the world wide web at <http://pangea.stanford.edu/geomech/Software/Software.htm>. Because the code is constantly re-developed, I include a text copy of the core code (not libraries), here. The code has been tested against analytical solutions and found to be accurate within a few percent. One such test was published in a peer-reviewed paper in the Journal of Geophysical Research (Crider & Pollard, 1998). A copy of the test is also included. For this study, the code was compiled and run on a Sun Ultra60 UNIX workstation running SunOS 5.5.1 (Solaris).

The fault mesh is created using Microsoft Excel to speed repetitive calculations. The faults are meshed as simple, divided rectangles that reproduce the general geometry of the faults (strike, dip, length). Increasing the accuracy of fault geometry in the models is likely to alter the very-near fault results, but the regional results will not substantively change.

The numerical output is viewed using the commercial software Matlab, with routines written specifically for this study. These routines are included in the notebook. Figures for publication are created with Adobe Illustrator.

Primary data:

Information regarding fault geometry, general rock properties, and stress magnitudes and orientation is taken from published maps and reports (cited with in-process entries). Output is compared to published data on the orientation of opening-mode fractures (joints) in the vicinity of the ESF and newly-collected observations by Ferrill and Dunne.

References cited:

- Crouch, S.L. & A. Starfield, 1983, *Boundary Element Methods in Solid Mechanics*. Boston : Allen & Unwin, 322 pp.
- Crider, J.G., and D.D. Pollard, 1998, Fault linkage: Three-dimensional mechanical interaction between echelon normal faults: *Journal of Geophysical Research*, v. 103(B10), p. 24,373-24,391.
- Jaeger, J.C. and N.G.W. Cook, 1976. *Fundamentals of Rock Mechanics*. 2nd ed. New York: John Wiley & Sons, Inc., 585 pp.
- Scholz, C.H., 1991. *The Mechanics of Earthquakes and Faulting*. Cambridge University Press, 439 pp.
- Thomas, A.L., 1993, Poly3D: A three-dimensional, polygonal element, displacement discontinuity boundary element computer program with applications to fractures, faults and cavities in the Earth's crust [M.S. thesis], Stanford CA, Stanford University.

Juliet Crider
7/13/01

Date: Mon, 10 May 1999 12:22:08 -0400 (EDT)
From: Crider Juliet <jcrider@brynmawr.edu>
To: dferrill@swri.edu, wdunne@utk.edu
Subject: modeling approach

David, Bill --

An approach to understanding the generation of the fractures you observe is to decompose the total stress, as Bill has done, and to evaluate the influence of each component. Because the true (or even relative) magnitudes of each term are not known and may be difficult to accurately estimate, a model that exactly reproduces the fracture geometry may not be possible. Additionally, such a model may not be desirable, because any solution to an inverse problem this complex is certainly not unique and could be misleading.

Characteristics of the fractures that might be described are:

- 1) orientation
- 2) mode (I, II, III, mixed)
- 3) size, length
- 4) location & spacing of clusters/swarms
- 5) spacing within clusters
- 6) surface textures
- 7) hydraulic characteristics: connectivity, aperture

Of these, Poly3D (the 3D BEM with which I am most familiar) can provide information regarding the orientations of fractures of a given mode (1 and 2 above) and may give some hints about (4). Size of fractures (3) and spacing within clusters (5) may be tractable in 2-D for mode-I fractures, if rock properties and stress magnitudes are well-constrained. It is my impression that accurate modeling of surface textures (6) or hydraulic characteristics (7) are great challenges.

That said, heres what I can do:

Poly3D is ideal for evaluating the local perturbation of the stress field that may swing principal stresses from their regional values. I can model the influence of the N-S trending normal faults on the orientation and relative magnitude of the local stresses given:

- 1) the attitude, dimensions, and tipline shapes of the faults, and
- 2) (a) the orientations and relative magnitudes of the tectonic component of the horizontal principal stresses OR (b) slip distribution across the faults.

Friction on the faults will have an influence on 2a. A non-isotropic lithostatic stress will also influence 2a if the lithostatic S(vert) is greater than S(horiz), this would induce lateral spreading over time, this condition should relax to a simpler isotropic situation. It is worth evaluating which is the more appropriate case. Proximity of the faults to the free surface will also have some influence.

The output may give insight into the orientation of fractures and fracture clustering directly related to the normal faults. The code assumes a horizontal free surface and an isotropic, isothermal elastic medium.

I may be able to produce some initial results before June for a simple

case (frictionless faults with elliptical or semi-elliptical tiplines, isotropic lithostatic load). I have plans to be in the field and away from the computer for most of June and July but will return in August and could work on more complex scenarios at that time.

One significant challenge in predicting fracture swarms and clusters is rock heterogeneity variations in rock property may exert strong influence on fracturing and these variations are not effectively modeled with numerical codes it is computationally very expensive to do, cumbersome, and sometimes arbitrary. This is an important problem, but is not something I have the tools to undertake.

I would be willing to contribute to discussion of the thermoelastic stresses. Here, I anticipate the important aspects will be the size and shape of the unit (boundaries) and the cooling mechanism (radiation, conduction, convection). Commercially available codes (e.g. ANSYS) can model these processes effectively. By analogy to basalt flows, I would expect the spacing of cooling joints vary with depth within the unit.

Topographic effects are also interesting to me, and I have thought some about the problem in 2-D and am familiar with previous work but have not seen this tackled in 3D. It is an important engineering problem -- tools and solutions should be readily available.

Once each component of the total stress is evaluated, you may be able to evaluate the relative importance of each -- and produce a rubric for modeling fracture distribution elsewhere at the site.

Give a call if you have questions or concerns and I will also try to contact each of you in the next day.

cheers,

-- Juliet

.....
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.....
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.....

JGC 7/13/01

JGC

POLY 3D CODE

```
*****
SET TABSTOPS AT EVERY FOUR SPACES FOR PROPER DISPLAY
*****
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <math.h>
#include "matrix.h"
#include "satecan.h"
#include "getopts.h"
#include "getwords.h"
#include "intcoeff.h"
#include "crt.h"
#include "pln.h"
#include "tr.h"

/****** Includes *****/
#include <string.h>
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
#include "matrix.h"
#include "satecan.h"
#include "getopts.h"
#include "getwords.h"
#include "intcoeff.h"
#include "crt.h"
#include "pln.h"
#include "tr.h"

/****** Constants *****/
#define MAXLINE 256
#define MAXWORDS 50
#define GLOBAL_NAME "global"
#define ELT_CSYS_NAME "elocal"
#define END_COMMENT_CHAR "end"
#define CONTINUE_CHAR "\\\\"
#define ERROR_CHAR "\\\\"
#define FALSE 0
#define TRUE 1
#define BVZECTOR_BC 0
#define TRACTION_BC 1
#define PROGRAM_INFO "poly3d.c"
#define VERSION "Beta-Release"
#define DATE ""
#define COMPILE_DATE ""
#define COMPILE_DATE "Date Unavailable"
#define ENDIF

/****** NUMERICAL LIMITS USED WHEN CHECKING *****/
#define SWAP_TINY 1.0e-10
#define TINY_ANGLE 0.5*PI/180.
#define EVERT_TINY 1.0e-10
#define COPLANAR_LIMIT 30.

/****** PRINT OPTION ARRAY SIZE AND POSITIONS *****/
#define NUM_PR_OPTS 5
#define DISF_STRAIN 0
#define STRAIN 1
#define STRESS 2
#define STRESS 3
#define STRESS 4

/****** CHARS USED IN INPUT FILE PRINT STRINGS TO ENABLE PRINT OPTIONS *****/
#define MAX_LENGTH_OF_FILE 256
#define MAX_LENGTH_OF_ERROR_MESSAGES 256
```

JGC


```

};
typedef struct vert_s vert_t;

struct disloc_seg_s {
    /* --- DISLOC SEGMENT STRUCTURE */
    double elt_b[3][3]; /* Proj of element b to
    segment b */
    double trend; /* Strike of
    plunging leg of d.s. */
    double plunge; /* Plunge of
    plunging leg of d.s. */
    double local_rot[3][3]; /* Local-to-global rotation
    matrix */
    vert_t *vert[2]; /* Dislocation segment
    vertices */
};
typedef struct disloc_seg_s disloc_seg_t;

struct elt_s {
    /* ----- ELEMENT
    STRUCTURE ----- */
    int num_vertices; /* Number of vertices
    int bc_type[3]; /* Boundary condition type
    array */
    double bc[3]; /* Boundary
    condition magnitudes */
    csys_t elt_csys; /* Element-local
    coordinate system */
    double *b[3]; /* Burgers vector
    array */
    disloc_seg_t *disloc_seg; /* Dislocation segment array
    csys_t *bc_csys; /* Ptr to coord sys for
    element BCs */
    struct elt_s *next; /* Ptr to next elt in
    linked list */
};
typedef struct elt_s elt_t;

struct obj_s {
    /* ----- OBJECT STRUCTURE
    ----- */
    char *name; /* Object type
    int print[NUM_PR_OPTS]; /* Print options
    csys_t *pos_csys; /* Position coordinate
    system */
    elt_t *first_elt; /* Pointer to first element
    elt_t *last_elt; /* Pointer to last element
    struct obj_s *next; /* Ptr to next obj in
    linked list */
};
typedef struct obj_s obj_t;

```

```

/* ***** External Variables ***** */
char *title1_E = NULL; /* Problem title
char *title2_E = NULL; /* Problem subtitle
int half_space_E = TRUE; /* Half/whole space flag
int check_cond_num_E = TRUE; /* Check matrix condition num
flag */
double cond_num_E = -1.0; /* Matrix condition number
char infile_E[MAXFILE]; /* Input file name
char outfile_E[MAXFILE]; /* Output file name
int linenum_E = 0; /* Current line # in input
file */
int num_elts_E = 0; /* Number of elements
int below_vertex_E = FALSE; /* Below vertex flag
double null_value_E = -999.0; /* Null output value
FILE *ifp_E = stdin; /* Input file ptr (default
FILE *ofp_E = stdout; /* Output file ptr (default
FILE *tempfp_E[NUM_PR_OPTS]; /* Temporary file ptrs

double shear_mod_E = -1.0; /* Shear modulus
double psn_ratio_E = -1.0; /* Poisson's ratio
double youngs_mod_E = -1.0; /* Young's modulus
double bulk_mod_E = -1.0; /* Bulk modulus
double lame_lambda_E = -1.0; /* Lamé's lambda

int print_elt_geom_E = FALSE; /* Print element geometry flag
char *elt_geom_csys_name_E = NULL; /* Element geometry coord sys name
int rem_stress_bc_E = TRUE; /* Remote stress vs strain bc
flag */
double rem_stress_E[3][3]; /* Remote stress tensor
double rem_strain_E[3][3]; /* Remote strain tensor
double *b_vector_E; /* Burger's vector array
double *ic_matrix_E; /* Influence coeff matrix

```

```

csys_t *first_csys_E = NULL; /* 1st memb of csys linked list
obs_grid_t *first_obs_grid_E = NULL; /* 1st memb of obs grid linked list */
obj_t *first_obj_E = NULL; /* 1st memb of obj linked list
elt_t *first_elt_E = NULL; /* 1st memb of elt linked list
vert_t *first_vert_E = NULL; /* 1st memb of vert linked list

```

```

/* ***** ANSI Function Declarations ***** */
#ifdef __STDC__ || defined(ANSI) /* ANSI */
double array_max_norm(double **a, int start_row, int end_row, int
start_col, int end_col);
int calc_elt_parameters(elt_t *current_elt);
void close_temp_files(void);
void copy_temp_files(void);
void determine_burgers_vectors(void);
void displ_strain(int calc_displ, int calc_strain, double x[3],
double displ[3], double strain[3][3], elt_t *omit_elt);
void displ_strain_poly_elt(int calc_displ, int calc_strain,
elt_t *current_elt, double x[3], double displ[3],
double strain[3][3], elt_t *omit_elt, int under);
void print_obj_data(void);
csys_t *find_csys(char *name);
vert_t *find_vert(char *name);
int get_double_var(double *var, char *var_name, char *word[],
int numwords);
int get_boolean_var(int *var, char *var_name, char *true_string,
char *false_string, char *word[], int numwords, char *line);
int get_text_var(char **var, char *var_name, char *word[], int numwords,
char *line);
void get_elt_info(elt_t *current_elt, obj_t *current_obj, int numwords,
char *word[], char *line);
void get_obj_info(obj_t *current_obj, int numwords, char *word[],
char *line);
void get_program_args(void);
void get_vert_info(vert_t *current_vert, int numwords, char *word[],
char *line);
void displ_strain_ics_poly_elt(int calc_displ, int calc_strain,
elt_t *current_elt, double x[3],
double displ_ics[3][3], double strain_ics[3][3],
elt_t *omit_elt);
void print_obs_grid_data(void);
int open_files();
void open_temp_files(int print[]);
int parse_command_line_args(int argc, char *argv[]);
void perror(char *error_msg, char *line);
void print_elt_data(obj_t *current_obj,
elt_t *current_elt, int elt_num, double displ[3],
double stress[3][3]);
void print_elt_geometry(void);
void print_obj_titles(obj_t *current_obj);
void print_obs_grid_titles(obj_t *current_obs_grid);

```

```

void print_obs_pt_data(obs_grid_t *current_obs_grid, double x[3],
double displ[3], double strain[3][3]);
void print_problem_info(void);
int read_csystems();
int read_objs_elts_verts();
void read_infile(void);
int read_line(char *line, char *word[]);
int read_observation_grids();
int read_constants();
void setup_global_coords(void);

```

```

/* ***** K&R Function Declarations ***** */
double array_max_norm();
int calc_elt_parameters();
void close_temp_files();
void copy_temp_files();
void determine_burgers_vectors();
void displ_strain();
void displ_strain_poly_elt();
void print_obj_data();
csys_t *find_csys();
vert_t *find_vert();
int get_double_var();
int get_boolean_var();
int get_text_var();
void get_elt_info();
void get_obj_info();
void get_program_args();
void get_vert_info();
void displ_strain_ics_poly_elt();
void print_obs_grid_data();
int open_files();
void open_temp_files();
int parse_command_line_args();
void perror();
void print_elt_data();
void print_elt_geometry();
void print_obj_titles();
void print_obs_grid_titles();
void print_obs_pt_data();
void print_problem_info();
int read_csystems();
int read_objs_elts_verts();
void read_infile();
int read_line();
int read_observation_grids();
int read_constants();
void setup_global_coords();
#endif

```

```

/* ***** Function: main ***** */
* In: argc - number of command line arguments
* argv - array of command line arguments

```

```

/* If defined(__STDC__) || defined(ANSI) /* ANSI */
main(int argc, char *argv[])
#else
main(argc, argv)
int argc;
char *argv[];
#endif

{
    /* Use get_program_args() or parse_command_line_args() to get
       file names and program options.
    */

    #if FPROMP
    get_program_args();
    #else
    parse_command_line_args(argc, argv);
    #endif

    /* Open the input and output files
    */
    open_files();

    /* Read input file and set up the problem
    */
    read_infile();

    /* Solve for burger's vector for each element
    */
    determine_burgers_vectors();

    /* Print the problem info
    */
    print_problem_info();

    /* Calculate displs and tractions on elements
    */
    print_obj_data();

    /* Calculate displacements and stresses along observation grids
    */
    print_obs_grid_data();

    return(0);
}

/* ***** Function: print_problem_info *****
 * Prints general problem information to the output file.
 * *****
 */
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void print_problem_info(void)
#else
void print_problem_info()
#endif
{

```

```

/* Print program name, version, and date
*/
fprintf(ofp_E, "OUTPUT FROM: %s, version %s\n", PROGRAM, VERSION);
fprintf(ofp_E, "   COMPILED: %s\n", COMPILE_DATE);

/* Print input file name and problem titles
*/
fprintf(ofp_E, "\n INPUT FILE: %s\n", infile_E);
fprintf(ofp_E, "   TITLE1: %s\n", title1_E);
fprintf(ofp_E, "   TITLE2: %s\n", title2_E);

/* Print elastic constant values
*/
fprintf(ofp_E, "\nELASTIC CONSTANTS:\n");
fprintf(ofp_E, "   Shear Modulus = %f\n", shear_mod_E);
fprintf(ofp_E, "   Poisson's Ratio = %f\n", psn_ratio_E);
fprintf(ofp_E, "   Young's Modulus = %f\n", youngs_mod_E);
fprintf(ofp_E, "   Bulk Modulus = %f\n", bulk_mod_E);
fprintf(ofp_E, "   Lamé's Lambda = %f\n", lame_lambda_E);

/* Print the null output value
*/
fprintf(ofp_E, "\nNULL OUPUT VALUE = %f\n", null_value_E);

/* Print condition number of the influence coefficient matrix
*/
fprintf(ofp_E, "\nCONDITION NUMBER = ");
if (cond_num_E < 0.0) {
    fprintf(ofp_E, "(no traction bc's -> no matrix needed)\n");
} else {
    if (check_cond_num_E)
        fprintf(ofp_E, "%f\n", cond_num_E);
    else
        fprintf(ofp_E, "(not requested)\n");
}

/* Print element geometries (if requested)
*/
if (print_elt_geom_E)
    print_elt_geometry();

/* ***** Function: print_obj_data *****
 * Calculates and prints object data to the output file.
 * *****
 */
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void print_obj_data(void)
#else
void print_obj_data()
#endif
{
    int          elt_num;
    int          calc_displ;
    int          calc_strain;

```

```

obj_t          *current_obj;
double         displ[3];
double         strain[3][3];
double         stress[3][3];
elt_t          *current_elt;

current_obj = first_obj_E;
current_elt = first_elt_E;
while (current_elt != NULL) {

    /* If this element starts new object.....
    */
    if (current_elt == current_obj->first_elt) {

        /* Reset element number
        */
        elt_num = 1;

        if (current_obj->print[DISPL] || current_obj->print[STRESS]) {

            /* Open temp files
            */
            open_temp_files(current_obj->print);

            /* Print object titles
            */
            print_obj_titles(current_obj);

        } else {

            /* Skip this object if no output requested
            */
            current_elt = current_obj->last_elt;

        }

        if (current_obj->print[DISPL] || current_obj->print[STRESS]) {

            calc_displ = current_obj->print[DISPL];
            calc_strain = current_obj->print[STRESS];
            displ_strain(calc_displ, calc_strain,
                current_elt->elt_csys.origin, displ, strain,
                current_elt);
            strain_to_stress(strain, shear_mod_E, lame_lambda_E,
                stress);

            /* Print the data for this elt
            */
            print_elt_data(current_obj, current_elt, elt_num,
                displ, stress);

            elt_num++;

        }

        if (current_elt == current_obj->last_elt) {
            if (current_obj->print[DISPL] || current_obj->print[STRESS]) {

```

```

/* Copy temp files to main output file, then close them.
*/
copy_temp_files();
close_temp_files();

current_obj = current_obj->next;

current_elt = current_elt->next;

}

/* ***** Function: print_obs_grid_data *****
 * Loops through linked list of observation grids, calculating and printing
 * the requested displacement, strain, and stress data for each to the
 * output file.
 * *****
 */
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void print_obs_grid_data(void)
#else
void print_obs_grid_data()
#endif
{
    obs_grid_t *current_obs_grid;
    int         i, j, k;
    double      x[3];
    double      dx[3];
    double      displ[3];
    double      strain[3][3];
    double      *begin;
    double      *end;
    int          *numpts;
    char         error_msg[MAX_ERROR_MSG];
    int          *print;
    int          calc_displ;
    int          calc_strain;

    /* Loop over each observation grid
    */
    current_obs_grid = first_obs_grid_E;
    while (current_obs_grid != NULL) {

        /* Determine data required by obs grid print options
        */
        print = current_obs_grid->print;
        calc_displ = print[DISPL];
        calc_strain = (print[STRAIN] || print[PSTRAIN] || print[STRESS]
            || print[PSTRESS]);

        begin = current_obs_grid->begin;
        end = current_obs_grid->end;
        numpts = current_obs_grid->numpts;
        subtract_vectors(end, begin, dx);

```



```

/* Open temp files
-----*/
open_temp_files(current_obs_grid->print);

/* Print observation grid titles
-----*/
print_obs_grid_titles(current_obs_grid);

/* Process the observation grid
-----*/
switch (current_obs_grid->dimension) {

case 0:
    copy_vector(begin,x);
    /* Added by George Hilley. */
    transform_position_vector(INVERSE_TRANS,
        current_obs_grid->endpt_csys->origin,
        current_obs_grid->endpt_csys->local_rot,x);
    /* end. */

    displ_strain(calc_displ,calc_strain,x,displ,strain,
        NULL);
    print_obs_pt_data(current_obs_grid,x,displ,strain);
    break;

case 1:
    dx[2] /= (numpts[2]-1);
    dx[1] /= (numpts[1]-1);
    dx[0] /= (numpts[0]-1);
    for (i=0; i < numpts[0]; i++) {
        x[2] = begin[2] + dx[2]*i;
        x[1] = begin[1] + dx[1]*i;
        x[0] = begin[0] + dx[0]*i;
        /* Added by George Hilley. */
        transform_position_vector(INVERSE_TRANS,
            current_obs_grid->endpt_csys->origin,
            current_obs_grid->endpt_csys->local_rot,x);
        /* end. */

        displ_strain(calc_displ,calc_strain,x,displ,
            strain,NULL);
    }

    print_obs_pt_data(current_obs_grid,x,displ,strain);
    break;

case 2:
case 3:
    for (i=0; i < 3; i++) {
        dx[i] /= (numpts[i] == 1) ? 1 : (numpts[i]-1);
    }
    for (i=0; i < numpts[2]; i++) {
        x[2] = begin[2] + dx[2]*i;
        for (j=0; j < numpts[1]; j++) {
            x[1] = begin[1] + dx[1]*j;
            for (k=0; k < numpts[0]; k++) {

```

```

x[0] = begin[0] + dx[0]*k;
/* Added by George Hilley. */

transform_position_vector(INVERSE_TRANS,
    current_obs_grid->endpt_csys->origin,
    current_obs_grid->endpt_csys->local_rot,x);

/* end. */

displ_strain(calc_displ,calc_strain,
    x,displ,strain,NULL);

print_obs_pt_data(current_obs_grid,x,displ,strain);
    }
    }
    break;

default:
    sprintf(error_msg,
        "Invalid dimension (%d) for observation grid",
        current_obs_grid->dimension);
    p_error(error_msg,NULL);
}

/* Copy temp files to main output file, then close them.
-----*/
copy_temp_files();
close_temp_files();

current_obs_grid = current_obs_grid->next;
} /*while*/

/***** Function: displ_strain *****/
* Calculates the total displacement and/or strain at a point due to ALL
* elements.
* In: calc_displ - calculate displacements flag
*      calc_strain - calculate strains flag
*      x - coords (global) of pt at which to calc displ &
*      strain
*      omit_elt - element to omit when calculating displs (NULL = none)
* Out: displ - displacement vector (global coords)
*      strain - strain tensor (global coords)
*****/
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void displ_strain(int calc_displ, int calc_strain, double x[3],
    double displ[3], double strain[3][3], elt_t *omit_elt)
#else
void displ_strain(calc_displ, calc_strain, x, displ, strain, omit_elt)
int
int
    calc_displ;
    calc_strain;

```

```

double x[3];
double displ[3];
double strain[3][3];
elt_t *omit_elt;
#endif

{
    elt_t *current_elt;
    double elt_displ[3];
    double elt_strain[3][3];
    /*Declarations for correction of the "shadow effect" */
    int i;
    double orient;
    double under_plane;
    int under;
    double normal [3];
    double data [3];
    double data [3];
    vert_t *verta;
    vert_t *vertb;
    vert_t *vertc;
    double seg1 [3];
    double seg2 [3];
    double inside;
    double inside_vector [3];
    int inside_test;
    int inside_test_fin;
    double x3_global [3];
    disloc_seg_t *disloc_seg;

/* end of the declaration */;

    initialize_vector(displ,0.0);
    initialize_matrix(strain,0.0);

    /* Loop over each element
    -----*/
    current_elt = first_elt_E;
    while (current_elt != NULL) {

        /* Test UNDER to determine if the data point is inside the "shadow
        zone"
        -----*/

        under = 0;
        inside_test_fin = 1;

        /* Determine if the element has a positive side up or down (orient)
        and determine if the data is under the plane
        defined by the element (under_plane)
        -----*/
        disloc_seg = current_elt->disloc_seg;
        x3_global [0] = 0;
        x3_global [1] = 0;
        x3_global [2] = 1;

```

```

verta = disloc_seg [0].vert[0];
vertb = disloc_seg [0].vert[1];
vertc = disloc_seg [1].vert[1];
subtract_vectors (vertb->x, verta->x, seg1);
subtract_vectors (vertc->x, verta->x, seg2);
cross_product (seg1, seg2, normal);
orient = dot_product (normal, x3_global);
subtract_vectors (x, verta->x, data);
under_plane = dot_product (normal, data);

/* Determine if the data point is in the "rigid body"
(cf. explanation of the bug)
-----*/

for (i = 0; i < current_elt->num_vertices; i++)
{
    inside = 0;
    verta = disloc_seg [i].vert[0];
    vertb = disloc_seg [i].vert[1];
    subtract_vectors (vertb->x, verta->x, seg1);
    subtract_vectors (x, verta->x, data);
    cross_product (seg1, data, inside_vector);
    inside = dot_product (x3_global, inside_vector);

    if (orient > 0)
        (if (inside > 0 && under_plane < 0)
            (inside_test = 1);
            else (inside_test = 0);)

    if (orient < 0)
        (if (inside < 0 && under_plane > 0)
            (inside_test = 1);
            else (inside_test = 0);)

    if (orient == 0)
        (under = 0);
    inside_test_fin *= inside_test;
}

/*Gives a value 1 to under for data points under the element
and positive side up
Gives a value 2 to under for data points under the element
and positive side down
Gives a value 0 to under for data points not under the element
-----*/

if (inside_test_fin > 0) {
    if (orient > 0)
        (under = 1);
    if (orient < 0)
        (under = 2);
}

else (under = 0);

```

```

/* Calculate displacement and strain due to this element
-----*/
displ_strain_poly_elt(calc_displ,calc_strain,current_elt,
x,elt_displ,elt_strain,omit_elt,under);

/* Add the contribution of this element to the total displ & strain
-----*/
add_vectors(displ,elt_displ,displ);
add_matrices(strain,elt_strain,strain);

current_elt = current_elt->next;

}

/* Adjust strain for remote strain
-----*/
add_matrices(strain,rem_strain_E,strain);

}

/***** Function: displ_strain_poly_elt *****/
* Calculates the displacement and/or strain at a point due to a single
* polygonal element.
*
* In: calc_displ - calculate displacements flag
*      calc_strain - calculate strains flag
*      current_elt - element being considered
*      x - coords (global) of pt at which to calc displ &
*      strain
*      omit_elt - element to omit when calculating displs (NULL = none)
*      out:      elt_displ - displacement vector (global coords) due to this elt
*              elt_strain - strain tensor (global coords) due to this elt
* *****/
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void displ_strain_poly_elt(int calc_displ, int calc_strain,
elt_t *current_elt, double x[3], double elt_displ[3],
double elt_strain[3][3], elt_t *omit_elt, int under)
#else
void displ_strain_poly_elt(calc_displ, calc_strain, current_elt, x,
elt_displ, elt_strain, omit_elt, under)
int calc_displ;
int calc_strain;
elt_t *current_elt;
elt_t **current_elt;
double x[3][3];
double elt_displ[3];
double elt_strain[3][3];
elt_t *omit_elt;
int under;
#endif

{
double displ_ic[3][3];
double strain_ic[3][3][3];
int i, j, k;
/*Declarations for shadow effect correction*/

```

```

double bglobal[3];
double e[3][3];
double eg[3][3];
double bg[3][3];
/* Initialize displacement vector and strain tensor
-----*/
initialize_vector(elt_displ,0.0);
initialize_matrix(elt_strain,0.0);

/* Calculate the displacement and strain influence coefficients
-----*/
displ_strain_ics_poly_elt(calc_displ,calc_strain,current_elt,x,
displ_ic,strain_ic,omit_elt);

/* Superpose the contribution from each burger's vector component
-----*/
for (i=0; i < 3; i++) {
for (j=0; j < 3; j++) {
elt_displ[i] += displ_ic[j][i] *
(*current_elt->b[j]);

for (k=0; k < 3; k++) {
elt_strain[i][j] += strain_ic[k][i][j] *
(*current_elt->b[k]);
}
}
}

/* Shadow effect correction in case of data point under the element
-----*/
if (under > 0) {
bglobal[0]=0;
bglobal[1]=0;
bglobal[2]=0;
e[0][0]=1;
e[0][1]=0;
e[0][2]=0;
e[1][0]=0;
e[1][1]=1;
e[1][2]=0;
e[2][0]=0;
e[2][1]=0;
e[2][2]=1;
eg[0][0]=1;
eg[0][1]=0;
eg[0][2]=0;
eg[1][0]=0;
eg[1][1]=1;
eg[1][2]=0;
eg[2][0]=0;
eg[2][1]=0;
eg[2][2]=1;
for (i=0; i < 3; i++) {

```

```

/* Transform the burger vector's component in the global
coordinate system
-----*/
rotate_vector(INVERSE_ROT,current_elt-
>elt_csys.local_rot,e[i]);
scalar_vector_mult (*current_elt->b[i], e[i],bg[i]);

for (i=0; i < 3; i++) {
for (j=0; j < 3; j++) {
bglobal[i] += dot_product(bg[j], eg[i]);
}
}

/*Corrects the displacement by the corresponding burger's
vector (global coords)
-----*/
if (under < 2) {
elt_displ[i] -= bglobal[i];
}
if (under > 1) {
elt_displ[i] += bglobal[i];
}
}

/***** Function: displ_strain_ics_poly_elt *****/
* Calculates the displacement and/or strain influence coefficients at a point
* due to a polygonal element.
*
* In: calc_displ - calculate displacements flag
*      calc_strain - calculate strains flag
*      current_elt - element being considered
*      x - coords (global) of pt at which to calc displ &
*      strain
*      omit_elt - element to omit when calculating displs (NULL = none)
*      out:      displ_ic[i][j] - the jth component of displ (global coords)
*                          due to a unit ith Burgers vector component
*                          (bc_coord_sys coords)
*              strain_ic[i][j][k] - the jk component of strain (global coords)
*                          due to a unit ith Burgers vector component
*                          (bc_coord_sys coords)
* *****/
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void displ_strain_ics_poly_elt(int calc_displ, int calc_strain,
elt_t *current_elt, double x[3], double displ_ic[3][3],
double strain_ic[3][3][3], elt_t *omit_elt)
#else
void displ_strain_ics_poly_elt(calc_displ, calc_strain, current_elt, x,
displ_ic, strain_ic, omit_elt)
int calc_displ;
int calc_strain;
elt_t *current_elt;
double x[3];
double displ_ic[3][3];
double strain_ic[3][3][3];

```

```

elt_t *omit_elt;
#endif

{
int i, j, k, l;
int seg;
int swap;
vert_t *vert1;
vert_t *vert2;
double depth1;
double depth2;
double beta;
double temp_double;
double temp_vector[3];
double r;
double z3;
double y1[3];
double y2[3];
double displ_ic1[3][3];
double displ_ic2[3][3];
double displ_ic3[3][3];
double displ_ic4[3][3];
double strain_ic1[3][3][3];
double strain_ic2[3][3][3];
double strain_ic3[3][3][3];
double strain_ic4[3][3][3];
disloc_seg_t *disloc_seg;

/* Initialize the influence coefficients
-----*/
for (i=0; i < 3; i++) {
initialize_vector(displ_ic[i],0.0);
initialize_matrix(strain_ic[i],0.0);
}

/* Loop over the element's dislocation segments
-----*/
disloc_seg = current_elt->disloc_seg;
for (seg = 0; seg < current_elt->num_vertices; seg++) {

/* Determine the segment vertices
-----*/
vert1 = disloc_seg[seg].vert[0];
vert2 = disloc_seg[seg].vert[1];

/* Compute the vectors from the segments vertices to the
data point
-----*/
subtract_vectors(x,vert1->x,y1);
subtract_vectors(x,vert2->x,y2);

/* Rotate vert-to-obs_point vectors to segment-local coords
-----*/
rotate_vector(FORWARD_ROT,disloc_seg[seg].local_rot,y1);
rotate_vector(FORWARD_ROT,disloc_seg[seg].local_rot,y2);

depth1 = -vert1->x[2];

```



```

depth2 = -vert2->x[2];
beta = PI/2.0 - disloc_seg[seg].plunge;

if ((sqrt(y1[0]*y1[0]+y1[1]*y1[1]) < BVERT_TINY) && y1[2] >= 0.0)
{
    ((sqrt(y2[0]*y2[0]+y2[1]*y2[1]) < BVERT_TINY) && y2[2] >=
    0.0) {
        below_vertex_E = TRUE;
        return;
    }

    /* If x lies along dipping leg of angular dislocations, swap
    the vertex order, so singularity will be avoided */
    swap = FALSE;
    z3 = y1[0]*sin(beta) + y1[2]*cos(beta);
    r = vector_magnitude(y1);
    if ((r - z3) < SWAP_TINY) {
        swap = TRUE;
        copy_vector(y2,temp_vector);
        copy_vector(y1,y2);
        copy_vector(temp_vector,y1);
        for (i=0; i < 2; i++) {
            y1[i] *= -1.0;
            y2[i] *= -1.0;
        }
        temp_double = depth2;
        depth2 = depth1;
        depth1 = temp_double;
        beta = PI - beta;
    }

    /* Calculate displacement influence coeffs
    -----*/
    if (calc_displ) {
        /* Avoid displacement discontinuity when calculating displ
        inf coeff of an element on itself
        -----*/
        if (current_elt != omit_elt) {
            comminou_displ_ics(y1,depth1,beta,psn_ratio_E,
            half_space_E,displ_ic1);
            comminou_displ_ics(y2,depth2,beta,psn_ratio_E,
            half_space_E,displ_ic2);

            /* Superpose the angular dislocation influence coeffs
            a dislocation segment influence coeff
            -----*/
            subtract_matrices(displ_ic1,displ_ic2,
            displ_ic3);

            /* Swap the vertices back to proper order (if necessary)
            -----*/
        }
    }
}

```

```

*/
if (swap) {
    scalar_vector_mult(-1.0,displ_ic3[2],
    displ_ic3[2]);
    for (i=0; i < 3; i++) {
        displ_ic3[i][0] *= -1.0;
        displ_ic3[i][1] *= -1.0;
    }
}

/* Transform from disloc segment to element influence
-----*/
for (i=0; i < 3; i++) {
    initialize_vector(displ_ic4[i],0.0);
    for (j=0; j < 3; j++) {
        for (k=0; k < 3; k++) {
            displ_ic4[i][j] +=
            disloc_seg[seg].elt_b[i][k] *
            displ_ic3[k][j];
        }
    }
}

/* Rotate from C&D to global coordinates
-----*/
for (i=0; i < 3; i++) {
    rotate_vector(INVERSE_ROT,disloc_seg[seg].local_rot,
    displ_ic4[i]);
}

/* Superpose the contribution of this dislocation
-----*/
segment
-*/
for (i=0; i < 3; i++) {
    add_vectors(displ_ic[i],displ_ic4[i],
    displ_ic[i]);
}
}

/* Calculate strain influence coeffs
-----*/
if (calc_strain) {
    comminou_strain_ics(y1,depth1,beta,psn_ratio_E,
    half_space_E,strain_ic1);
    comminou_strain_ics(y2,depth2,beta,psn_ratio_E,
    half_space_E,strain_ic2);

    /* Superpose the angular dislocation influence coeffs into
    a dislocation segment influence coeff
    -----*/
}

```

```

-----*/
for (i=0; i < 3; i++) {
    subtract_matrices(strain_ic1[i],strain_ic2[i],
    strain_ic3[i]);
}

/* Swap the vertices back to proper order (if necessary)
-----*/
if (swap) {
    scalar_matrix_mult(-1.0,strain_ic3[2],
    strain_ic3[2]);
    for (i=0; i < 3; i++) {
        strain_ic3[i][0][2] *= -1;
        strain_ic3[i][2][0] *= -1;
        strain_ic3[i][1][2] *= -1;
        strain_ic3[i][2][1] *= -1;
    }
}

for (i=0; i < 3; i++) {
    initialize_matrix(strain_ic4[i],0.0);
    for (j=0; j < 3; j++) {
        for (k=0; k < 3; k++) {
            for (l=0; l < 3; l++) {
                strain_ic4[i][j][k] +=
                disloc_seg[seg].elt_b[i][l] *
                strain_ic3[l][j][k];
            }
        }
    }
}

/* Rotate strain inf coeffs to global coords
-----*/
for (i=0; i < 3; i++) {
    rotate_tensor(INVERSE_ROT,disloc_seg[seg].local_rot,
    strain_ic4[i]);
}

/* Superpose the contribution of this dislocation segment
-----*/
for (i=0; i < 3; i++) {
    add_matrices(strain_ic[i],strain_ic4[i],
    strain_ic[i]);
}

} /* loop over dislocation segments */
}

```

```

/****** Function: read_infile *****
* Reads the input file and sets up the problem to be solved.
*****

```

```

#ifdef __STDC__ || defined(ANSI) /* ANSI */
void read_infile(void)
#else
void read_infile()
#endif

```

```

{
    /* Read problem constants
    -----*/
    read_constants();

    /* Read coordinate systems
    -----*/
    read_csystems();

    /* Read observation grids
    -----*/
    read_observation_grids();

    /* Read elements and vertices
    -----*/
    read_objs_elts_verts();
}

```

```

/****** Function: find_csys *****
* Returns a pointer to the coordinate system named by name, or NULL if no
* such coordinate system exists.
*
* In: name - name of the coordinate system to find
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
csys_t *find_csys(char *name)
#else
csys_t *find_csys(name)
char *name;
#endif
{
    csys_t *current_csyes;
    current_csyes = first_csyes_E;

    while (current_csyes != NULL) {
        if (!strcmp(name,current_csyes->name))
            break;
        current_csyes = current_csyes->next;
    }

    return(current_csyes);
}

```

```

/****** Function: find_vert *****
* Return a pointer to the vertex named by name, or NULL if no such vertex

```

```

* exists.
*
* In: name - name of the vertex to find
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void find_vert(char *name)
#else
void find_vert(char *name)
#endif
{
    vert_t *current_vert;

    current_vert = first_vert_E;

    while (current_vert != NULL) {
        if (!strcmp(name, current_vert->name))
            break;
        current_vert = current_vert->next;
    }

    return(current_vert);
}

/***** Function: p_error *****/
* Prints an error message to stderr and calls exit(). If line != NULL, the
* line and line number (from the input file) on which the error occurred are
* printed as well.
*
* In: error_msg - error message to print
*       line - input file line number at which the error occurred
*           (NULL = N/A)
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void p_error(char *error_msg, char *line)
#else
void p_error(char *error_msg, char *line)
#endif
{
    fprintf(stderr, "\nerror: %s", error_msg);
    if (line != NULL) {
        fprintf(stderr, "\n");
    } else {
        fprintf(stderr, " (%s, line %d)\n", infile_E, linenum_E);
        fprintf(stderr, " %s\n", line);
    }
    exit(1);
}

/***** Function: setup_global_coords *****/

```

```

* Defines the global coordinate system, making it the first member in the
* linked list of coordinate systems (first_cs_E).
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void setup_global_coords(void)
#else
void setup_global_coords(void)
#endif
{
    int i;

    /* Set first coord system to global coordinates
    ***** */
    first_cs_E = (csys_t *) calloc((size_t) 1,
        sizeof(csys_t));
    if (!first_cs_E)
        p_error("Cannot allocate memory (calloc) for global coord sys",
            NULL);

    first_cs_E->name = (char *) malloc((size_t)
        strlen(GLOBAL_NAME)+1);
    if (!first_cs_E->name)
        p_error("Cannot allocate memory for global coord system name",
            NULL);
    strcpy(first_cs_E->name, GLOBAL_NAME);

    for (i=0; i < 3; i++) {
        first_cs_E->origin[i] = 0;
    }
    initialize_matrix(first_cs_E->local_rot, 0.0);
    for (i=0; i < 3; i++) {
        first_cs_E->local_rot[i][i] = 1.0;
    }
}

/***** Function: open_files *****/
* Opens the input and output files named by the external variables infile_E
* and outfile_E
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
int open_files(void)
#else
int open_files(void)
#endif
{
    char error_msg[MAX_ERROR_MSG];

    if (infile_E[0] != '\0') {
        if ((ifp_E = fopen(infile_E, "r")) == NULL) {
            sprintf(error_msg, "Cannot open the input file %s", infile_E);
            p_error(error_msg, NULL);
        } /*if*/
    } /*if*/

    if (outfile_E[0] != '\0') {
        if ((ofp_E = fopen(outfile_E, "w")) == NULL) {
            sprintf(error_msg, "Cannot open the output file %s", outfile_E);
            p_error(error_msg, NULL);
        } /*if*/
    } /*if*/

    return(0);
}

/***** Function: parse_command_line_args *****/
* Parses the command line argument using getopt().
*
* In: argc - number of command line arguments
*       argv - the command line arguments
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
int parse_command_line_args(int argc, char *argv[])
#else
int parse_command_line_args(int argc, char *argv[])
#endif
{
    int option;
    int argument;
    int exit = FALSE;

    infile_E[0] = outfile_E[0] = '\0';
    while ((option = getopt("i:o:", argv)) != NO_MORE_ARGS && !exit) {
        switch (option) {
            case NO_SUCH_ARG:
            case FILE_ARG:
                exit = TRUE;
                break;
            /* -i <filename> names the input file */
            case 'i':
                if (strlen(getopt_arg_E) > MAXFILE-1) {
                    p_error("Input file name too long", NULL);
                }
                strcpy(infile_E, getopt_arg_E);
                break;
            /* -o <filename> names the output file */
            case 'o':
                if (strlen(getopt_arg_E) > MAXFILE-1) {
                    p_error("Output file name too long", NULL);
                }
                strcpy(outfile_E, getopt_arg_E);
                break;
        } /*switch*/
    } /*while*/

    if (exit) {

```

```

        fprintf(stderr, "\nUsage: poly [-i infile] [-o outfile]");
        fprintf(stderr, "\n          (arguments may occur in any order)\n\n");
        return(ERROR);
    } /*if*/

    return(0);
}

/***** Function: read_constants *****/
* Reads problem constants from the input file, skipping blank and comment
* lines. Stops reading when a line beginning with END_STMT is reached.
* Sets up remote stress and strain tensors and calls calc_elas_consts() to
* calculate undefined elastic constants.
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
int read_constants(void)
#else
int read_constants(void)
#endif
{
    int numwords;
    char *word[MAXWORDS];
    char line[MAXLINE];
    char error_msg[MAX_ERROR_MSG];
    int temp;
    double s11r, s22r, s33r, s12r, s13r, s23r;

    s11r = s22r = s33r = s12r = s13r = s23r = 0.0;

    /* read list of constants
    ***** */
    for (;;) {
        /* read line from input file, increment linenum
        ***** */
        numwords = read_line(line, word);
        linenum_E++;

        /* skip blank and comment lines
        ***** */
        if (numwords == 0)
            continue;

        /* exit loop when end of list reached
        ***** */
        if (!strcmp(word[0], END_STMT))
            break;

        /* parse constants
        ***** */
        if (get_text_var(&title1_E, "title1", word, numwords, line))
            continue;

        if (get_text_var(&title2_E, "title2", word, numwords, line))

```

```

        continue;

    if (get_double_var(&shear_mod_E, "shear_mod", word, numwords))
        continue;

    if (get_double_var(&psn_ratio_E, "psn_ratio", word, numwords))
        continue;

    if (get_double_var(&youngs_mod_E, "youngs_mod", word, numwords))
        continue;

    if (get_double_var(&bulk_mod_E, "bulk_mod", word, numwords))
        continue;

    if (get_double_var(&lame_lambda_E, "lame_lambda", word, numwords))
        continue;

    if (get_double_var(&>null_value_E, "null_value", word, numwords))
        continue;

    if (get_boolean_var(&rem_stress_bc_E, "rem_bc_type",
        "stress", "strain", word, numwords, line))
        continue;

    if (get_double_var(&s11r, "s11r", word, numwords))
        continue;

    if (get_double_var(&s22r, "s22r", word, numwords))
        continue;

    if (get_double_var(&s33r, "s33r", word, numwords))
        continue;

    if (get_double_var(&s12r, "s12r", word, numwords))
        continue;

    if (get_double_var(&s13r, "s13r", word, numwords))
        continue;

    if (get_double_var(&s23r, "s23r", word, numwords))
        continue;

    if (get_boolean_var(&half_space_E, "half_space",
        "yes", "no", word, numwords, line))
        continue;

    if (get_boolean_var(&check_cond_num_E, "check_cond_num",
        "yes", "no", word, numwords, line))
        continue;

    if (get_boolean_var(&print_elt_geom_E, "print_elt_geom",
        "yes", "no", word, numwords, line))
        continue;

    if (get_text_var(&elt_geom_csname_E, "elt_geom_csname",
        word, numwords, line))
        continue;

```

```

/* Print error message if line has incorrect format
-----*/
else {
    p_error("Unknown constant, or incorrect format",
        line);
}

/* Calculate elastic constants
-----*/
if ((temp = calc_elas_consts(&shear_mod_E, &psn_ratio_E, &youngs_mod_E,
    &bulk_mod_E, &lame_lambda_E)) != 0) {
    sprintf(error_msg, "Too %s elastic constants defined (define two)",
        (temp == EC_TOO_FEW) ? "few" : "many");
    p_error(error_msg, NULL);
}

/* Set up remote boundary condition stress and strain tensors
-----*/
rem_stress_E[0][0] = s11r;
rem_stress_E[1][1] = s22r;
rem_stress_E[2][2] = s33r;
rem_stress_E[0][1] = rem_stress_E[1][0] = s12r;
rem_stress_E[0][2] = rem_stress_E[2][0] = s13r;
rem_stress_E[1][2] = rem_stress_E[2][1] = s23r;
copy_matrix(rem_stress_E, rem_strain_E);
if (rem_stress_bc_E) {
    stress_to_strain(rem_stress_E, youngs_mod_E, psn_ratio_E,
        rem_strain_E);
} else {
    strain_to_stress(rem_stress_E, shear_mod_E, lame_lambda_E,
        rem_stress_E);
}

return(0);
}

/****** Function: read_csystms *****/
/* Reads user coordinate systems from the input file, skipping blank and
 * comment lines. Stops reading when a line beginning with END_STMT is
 * reached. Adds coordinate systems to the linked list whose first member
 * (global coords) is given by first_csname_E.
-----*/
#ifdef _STD_C
int read_csystms(void)
#else
int read_csystms()
#endif
{
    int numwords;
    char *word[MAXWORDS];
    char error_msg[MAX_ERROR_MSG];
    char line[MAXLINE];
    char temp_char;

    current_csname->next = (csname_t *)
        calloc(sizeof(csname_t), 1);
    if (!current_csname->next)
        p_error("Cannot allocate memory (calloc) for local coord sys",
            line);
    current_csname = current_csname->next;

    /* Assign coordinate system name
    -----*/
    current_csname->name = (char *) malloc(sizeof(char) *
        strlen(word[CS_NAME_POS]) + 1);
    if (!current_csname->name)
        p_error("Cannot allocate memory for coord system name",
            line);
    strcpy(current_csname->name, word[CS_NAME_POS]);

    /* Get coordinate system parent
    -----*/
    if ((parent =
        find_csname(word[CS_PARENT_POS])) == NULL) {
        p_error("Undefined coordinate system", line);
    }

    /* Get coordinate system origin and convert to global coords
    -----*/
    for (i=0; i < 3; i++) {
        current_csname->origin[i] = atof(word[CS_ORIGIN_POS+i]);
    }
    transform_position_vector(INVERSE_TRANS,
        parent->origin, parent->local_rot, current_csname->origin);

    /* Get rots about x1, x2, x3 axes of parent and convert to radians
    -----*/
    for (i=0; i < 3; i++) {
        rot[i] = RADIANS(atof(word[CS_ROT_POS+i]));
    }

    /* Get the rotation order
    -----*/
    for (i=0; i < 3; i++) {
        temp_char = word[CS_ROT_ORDER_POS][i];
        if (temp_char < '1' || temp_char > '3') {
            p_error("Invalid axis for rotation order",
                line);
        }
        rot_order[i] = temp_char - '1';
    }

    /* Set up the rotation matrices
    -----*/
    for (i=0; i < 3; i++) {
        j = i+1;
        k = i+2;
        if (j > 2) j = 3;
        if (k > 2) k = 3;
        rot_matrix[i][i][i] = 1.0;
        rot_matrix[i][j][j] =

```

```

int i, j, k;
double rot_matrix[3][3][3];
double local_rot[3][3];
int rot_order[3];
double rot[3];
csname_t *parent;
csname_t *current_csname;

/* Initialize coordinate rotation matrices
-----*/
initialize_matrix(local_rot, 0.0);
for (i=0; i < 3; i++) {
    initialize_matrix(rot_matrix[i], 0.0);
}

/* Set first coordinate system to global coordinates
-----*/
setup_global_coords();
current_csname = first_csname_E;

/* Read in coordinate systems
-----*/
for (;;) {
    /* read line from input file, increment linenum
    -----*/
    numwords = read_line(line, word);
    linenum++;

    /* Skip blank and comment lines
    -----*/
    if (numwords == 0)
        continue;

    /* Exit loop when end of list reached
    -----*/
    if (!strcmp(word[0], END_STMT))
        break;

    /* Check for proper number of parameters
    -----*/
    else if (numwords != CS_NUM_PARAMS) {
        sprintf(error_msg,
            "Too %s parameters specified to define coord system",
            (numwords < CS_NUM_PARAMS) ? "few" : "many");
        p_error(error_msg, line);
    }

    /* Check if coordinate system name already taken
    -----*/
    if (find_csname(word[CS_NAME_POS]) != NULL) {
        p_error("Coordinate system already exists", line);
    }

    /* Allocate memory in linked list for local coordinate system
    -----*/

```

```

current_csname->next = (csname_t *)
    calloc(sizeof(csname_t), 1);
if (!current_csname->next)
    p_error("Cannot allocate memory (calloc) for local coord sys",
        line);
current_csname = current_csname->next;

/* Assign coordinate system name
-----*/
current_csname->name = (char *) malloc(sizeof(char) *
    strlen(word[CS_NAME_POS]) + 1);
if (!current_csname->name)
    p_error("Cannot allocate memory for coord system name",
        line);
strcpy(current_csname->name, word[CS_NAME_POS]);

/* Get coordinate system parent
-----*/
if ((parent =
    find_csname(word[CS_PARENT_POS])) == NULL) {
    p_error("Undefined coordinate system", line);
}

/* Get coordinate system origin and convert to global coords
-----*/
for (i=0; i < 3; i++) {
    current_csname->origin[i] = atof(word[CS_ORIGIN_POS+i]);
}
transform_position_vector(INVERSE_TRANS,
    parent->origin, parent->local_rot, current_csname->origin);

/* Get rots about x1, x2, x3 axes of parent and convert to radians
-----*/
for (i=0; i < 3; i++) {
    rot[i] = RADIANS(atof(word[CS_ROT_POS+i]));
}

/* Get the rotation order
-----*/
for (i=0; i < 3; i++) {
    temp_char = word[CS_ROT_ORDER_POS][i];
    if (temp_char < '1' || temp_char > '3') {
        p_error("Invalid axis for rotation order",
            line);
    }
    rot_order[i] = temp_char - '1';
}

/* Set up the rotation matrices
-----*/
for (i=0; i < 3; i++) {
    j = i+1;
    k = i+2;
    if (j > 2) j = 3;
    if (k > 2) k = 3;
    rot_matrix[i][i][i] = 1.0;
    rot_matrix[i][j][j] =

```



```

        rot_matrix[i][k][k] = cos(rot[i]);
        rot_matrix[i][k][j] =
            -(rot_matrix[i][j][k] = sin(rot[i]));
    }

    /* Calculate the global-to-local coordinate rotation matrix
    -----*/
    matrix_mult(rot_matrix[rot_order[0]],parent->local_rot,local_rot);
    matrix_mult(rot_matrix[rot_order[1]],local_rot,local_rot);
    matrix_mult(rot_matrix[rot_order[2]],local_rot,local_rot);
    copy_matrix(local_rot,current_csys->local_rot);
}

/* Prevent sloppy memory references:
-----*/

current_csys->next = NULL;

return(0);
}

/****** Function: read_observation_grids *****/
/* Reads observation grids from the input file, skipping blank and
 * comment lines. Stops reading when a line beginning with END_STMT is
 * reached. Adds observation grids to the linked list whose first member
 * (global coords) is given by first_obs_grid.E.
-----*/
#ifdef __STDC__ || defined(ANSI) /* ANSI */
int read_observation_grids(void)
#else
int read_observation_grids()
#endif
{
    int numwords;
    char *word[MAXWORDS];
    char line[MAXLINE];
    int i;
    int dimension;
    char error_msg[MAX_ERROR_MSG];
    int correct_num_params;
    obs_grid_t *current_obs_grid;
    int num_ones;
    int numpts;
    char temp_char;

    /* Read in observation grids
    -----*/
    for (;;) {

        /* read line from input file, increment linenum
        -----*/
        numwords = read_line(line,word);
        linenum_E++;

        /* skip blank and comment lines

```

```

        /* Set the observation grid dimension
        -----*/
        current_obs_grid->dimension = dimension;

        /* Get observation grid name
        -----*/
        current_obs_grid->name = (char *) malloc((size_t)
            strlen(word[OG_NAME_POS])+1);
        if (!current_obs_grid->name)
            p_error("Cannot allocate memory for observation grid name",
                line);
        strcpy(current_obs_grid->name,word[OG_NAME_POS]);

        /* Get the print options
        -----*/
        i = 0;
        current_obs_grid->print[DISPL] = FALSE;
        current_obs_grid->print[STRAIN] = FALSE;
        current_obs_grid->print[STRESS] = FALSE;
        current_obs_grid->print[PSTRAIN] = FALSE;
        current_obs_grid->print[PSTRESS] = FALSE;
        while ((temp_char = word[OG_PRINT_OPS_POS][i]) != '\0') {
            switch (temp_char) {
                case DISPL_CHAR:
                    current_obs_grid->print[DISPL] = TRUE;
                    break;
                case STRAIN_CHAR:
                    current_obs_grid->print[STRAIN] = TRUE;
                    break;
                case STRESS_CHAR:
                    current_obs_grid->print[STRESS] = TRUE;
                    break;
                case PRINCIPAL_CHAR:
                    i++;
                    switch (word[OG_PRINT_OPS_POS][i]) {
                        case STRAIN_CHAR:
                            current_obs_grid->print[PSTRAIN] =
                                TRUE;
                            break;
                        case STRESS_CHAR:
                            current_obs_grid->print[PSTRESS] =
                                TRUE;
                            break;
                        default:
                            p_error("Invalid observation grid
                                print option",
                                    line);
                    }
                    break;
                default:
                    p_error("Invalid observation grid print
                                option",line);
            }
            i++;
        }
    }
}

```

```

    -----*/
    if (numwords == 0)
        continue;

    /* exit loop when end of list reached
    -----*/
    if (!strcmp(word[0],END_STMT))
        break;

    /* Get grid dimension
    -----*/
    dimension = atoi(word[OG_DIMEN_POS]);

    /* Check for proper number of parameters
    -----*/
    switch (dimension) {
        case 0:
            correct_num_params = (numwords == OG_MIN_NUM_PARAMS);
            break;
        case 1:
            correct_num_params = (numwords == (OG_MIN_NUM_PARAMS +
                4));
            break;
        case 2:
        case 3:
            correct_num_params = (numwords == (OG_MIN_NUM_PARAMS +
                6));
            break;
        default:
            p_error("Invalid dimension for observation grid",
                line);
    }

    if (!correct_num_params) {
        sprintf(error_msg,
            "Incorrect number of parameters for %d-D
            grid",dimension);
        p_error(error_msg,line);
    }

    /* Allocate memory for observation grid
    -----*/
    if (first_obs_grid_E == NULL) {
        first_obs_grid_E = (obs_grid_t *)
            calloc((size_t) 1,sizeof(obs_grid_t));
        if (!first_obs_grid_E)
            p_error("Cannot allocate memory (calloc) for obs grid",
                line);
        current_obs_grid = first_obs_grid_E;
    } else {
        current_obs_grid->next = (obs_grid_t *)
            calloc((size_t) 1,sizeof(obs_grid_t));
        if (!current_obs_grid->next)
            p_error("Cannot allocate memory (calloc) for obs grid",
                line);
        current_obs_grid = current_obs_grid->next;
    }
}

```

```

    /* Get the input coordinate system
    -----*/
    if ((current_obs_grid->endpt_csys =
        find_csys(word[OG_INPUT_CSYS_POS])) == NULL) {
        p_error("Undefined coordinate system",line);
    }

    /* Get the observation point coordinate system
    -----*/
    if ((current_obs_grid->obspt_csys =
        find_csys(word[OG_OBSPT_CSYS_POS])) == NULL) {
        p_error("Undefined coordinate system",line);
    }

    /* Get the output coordinate system
    -----*/
    if ((current_obs_grid->outpt_csys =
        find_csys(word[OG_DATA_CSYS_POS])) == NULL) {
        p_error("Undefined coordinate system",line);
    }

    /* Get the beginning & ending coordinates
    -----*/
    for (i=0; i < 3; i++) {
        current_obs_grid->begin[i] = atof(word[OG_BEGIN_POS+i]);
        if (dimension != 0) {
            current_obs_grid->end[i] = atof(word[OG_END_POS+i]);
        }
    }

    /* Get number of points along each coord axis in grid
    -----*/
    num_ones = 0;
    for (i=0; i < ((dimension == 2) ? 3 : dimension); i++) {
        current_obs_grid->numpts[i] = numpts =
            atoi(word[OG_NUMPTS_POS+i]);
        if (numpts < 2) {
            if (dimension == 2 && numpts == 1) {
                num_ones++;
            } else {
                sprintf(error_msg,
                    "%dD observation grid axes require %d or
                    more points",
                        dimension,((dimension == 2) ? 1 : 2));
                p_error(error_msg,line);
            }
        }
    }

    if (dimension == 2 && num_ones != 1) {
        p_error(
            "1 (& only 1) 2D observation grid axis requires 1
            point",
                line);
    }

    /* Convert the begin & end pts to global coords

```

```

/*transform position vector (INVERSE TRANS,
current_obs_grid->endpt_csys->origin,
current_obs_grid->endpt_csys->local_rot,
current_obs_grid->begin);
transform_position_vector (INVERSE TRANS,
current_obs_grid->endpt_csys->origin,
current_obs_grid->endpt_csys->local_rot,
current_obs_grid->end); */

/* Prevent sloppy memory references:
-----*/

current_obs_grid->next = NULL;

return(0);
}

```

```

/****** Function: read_objs_elts_verts *****
* Reads objects, elements, and vertices from the input file, skipping blank
* and comment lines. Stops reading when a line beginning with END_STMT is
* reached. Objects, element and vertices are stored in separate linked-lists.
* Pointers between these lists are set to indicate which elements belong to
* an object and which vertices belong to an element.
******/
#if defined(_STDC_) || defined(ANSI) /* ANSI */
int read_objs_elts_verts(void)
#else
int read_objs_elts_verts()
#endif

```

```

{
    int numwords;
    char *word[MAXWORDS];
    char line[MAXLINE];
    vert_t *current_vert;
    obj_t *current_obj;
    elt_t *current_elt;

```

```

/* Read in vertices and elements
-----*/
for (;;) {

```

```

    /* read line from input file, increment linenum
    -----*/
    numwords = read_line(line,word);
    linenum++;

```

```

    /* skip blank and comment lines
    -----*/
    if (numwords == 0)
        continue;

```

```

    /* exit loop when end of list reached
    -----*/
}

```

```

if (!strcmp(word[0],END_STMT))
    break;

/* read vertex info
-----*/
if (word[0][0] == V_CHAR) {
    get_vert_info(&current_vert,numwords,word,line);
}

```

```

/* Read object info
-----*/
else if (word[0][0] == OBJ_CHAR) {
    get_obj_info(&current_obj,numwords,word,line);
}

```

```

/* Read element info
-----*/
else if (word[0][0] == E_CHAR) {
    get_elt_info(&current_elt,current_obj,numwords,
word,line);
}

```

```

/* Make sure last object contains element(s)
-----*/
if (current_obj->first_elt == NULL)
    p_error("Last object contains no elements",NULL);

return(0);
}

```

```

/****** Function: print_obj_titles *****
* Prints the object name and column titles to the output (& temporary output)
* files.
*
* In: current_obj - the object for which titles are to be printed
******/
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void print_obj_titles(obj_t *current_obj)
#else
void print_obj_titles(current_obj)
obj_t *current_obj;
#endif

```

```

{
    fprintf(ofp_E,"\n\n=====n"
);
    fprintf(ofp_E, "          OBJECT: %s\n",current_obj->name);
    fprintf(ofp_E, "          ELT CENTER COORD SYS: %s\n",
current_obj->pos_csys->name);
    fprintf(ofp_E,
"=====n");

```

```

/* Print titles
-----*/
}

```

```

if (current_obj->print(DISPL)) {
    fprintf(tempfp_E(DISPL),OBJ_DISPL_TITLE);
    fprintf(tempfp_E(DISPL),OBJ_LOC_LABELS);
    fprintf(tempfp_E(DISPL),OBJ_DISPL_LABELS);
    fprintf(tempfp_E(DISPL),OBJ_BC_CSYS_LABELS);
    fprintf(tempfp_E(DISPL),OBJ_LOC_UNDLNS);
    fprintf(tempfp_E(DISPL),OBJ_DISPL_UNDLNS);
    fprintf(tempfp_E(DISPL),OBJ_BC_CSYS_UNDLNS);
}

```

```

if (current_obj->print(STRESS)) {
    fprintf(tempfp_E(STRESS),OBJ_STRESS_TITLE);
    fprintf(tempfp_E(STRESS),OBJ_LOC_LABELS);
    fprintf(tempfp_E(STRESS),OBJ_STRESS_LABELS);
    fprintf(tempfp_E(STRESS),OBJ_BC_CSYS_LABELS);
    fprintf(tempfp_E(STRESS),OBJ_LOC_UNDLNS);
    fprintf(tempfp_E(STRESS),OBJ_STRESS_UNDLNS);
    fprintf(tempfp_E(STRESS),OBJ_BC_CSYS_UNDLNS);
}
}

```

```

/****** Function: print_obs_grid_titles *****
* Prints the observation grid name and column titles to the output
* (& temporary output) files.
*
* In: current_obs_grid - the obs grid for which titles are to be printed
******/
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void print_obs_grid_titles(obs_grid_t *current_obs_grid)
#else
void print_obs_grid_titles(current_obs_grid)
obs_grid_t *current_obs_grid;
#endif

```

```

{
    fprintf(ofp_E,"\n\n=====n"
);
    fprintf(ofp_E, "d-D OBSERVATION GRID: %s\n",
current_obs_grid->dimension, current_obs_grid->name);
    fprintf(ofp_E, "OBS POINT COORD SYS: %s\n",
current_obs_grid->obspt_csys->name);
    fprintf(ofp_E, "OUTPUT COORD SYS: %s\n",
current_obs_grid->outp_csys->name);
    fprintf(ofp_E,
"=====n");

```

```

/* Print titles to temporary files
-----*/

```

```

if (current_obs_grid->print(DISPL)) {
    fprintf(tempfp_E(DISPL),OG_DISPL_TITLE);
    fprintf(tempfp_E(DISPL),OG_LOC_LABELS);
    fprintf(tempfp_E(DISPL),OG_DISPL_LABELS);
    fprintf(tempfp_E(DISPL),OG_LOC_UNDLNS);
    fprintf(tempfp_E(DISPL),OG_DISPL_UNDLNS);
}

```

```

if (current_obs_grid->print(STRAIN)) {
    fprintf(tempfp_E(STRAIN),OG_STRAIN_TITLE);
}

```

```

fprintf(tempfp_E(STRAIN),OG_LOC_LABELS);
fprintf(tempfp_E(STRAIN),OG_STRAIN_LABELS);
fprintf(tempfp_E(STRAIN),OG_LOC_UNDLNS);
fprintf(tempfp_E(STRAIN),OG_STRAIN_UNDLNS);
}

```

```

if (current_obs_grid->print(PSTRAIN)) {
    fprintf(tempfp_E(PSTRAIN),OG_PSTRAIN_TITLE);
    fprintf(tempfp_E(PSTRAIN),OG_LOC_LABELS);
    fprintf(tempfp_E(PSTRAIN),OG_PSTRAIN_LABELS);
    fprintf(tempfp_E(PSTRAIN),OG_LOC_UNDLNS);
    fprintf(tempfp_E(PSTRAIN),OG_PSTRAIN_UNDLNS);
}

```

```

if (current_obs_grid->print(STRESS)) {
    fprintf(tempfp_E(STRESS),OG_STRESS_TITLE);
    fprintf(tempfp_E(STRESS),OG_LOC_LABELS);
    fprintf(tempfp_E(STRESS),OG_STRESS_LABELS);
    fprintf(tempfp_E(STRESS),OG_LOC_UNDLNS);
    fprintf(tempfp_E(STRESS),OG_STRESS_UNDLNS);
}

```

```

if (current_obs_grid->print(PSTRESS)) {
    fprintf(tempfp_E(PSTRESS),OG_PSTRESS_TITLE);
    fprintf(tempfp_E(PSTRESS),OG_LOC_LABELS);
    fprintf(tempfp_E(PSTRESS),OG_PSTRESS_LABELS);
    fprintf(tempfp_E(PSTRESS),OG_LOC_UNDLNS);
    fprintf(tempfp_E(PSTRESS),OG_PSTRESS_UNDLNS);
}
}

```

```

/****** Function: print_elt_data *****
* Calculates and prints displacement and traction data for an element, given:
*
* In: current_obj - the object to which this element belongs
*      current_elt - the element for which data is to be printed
*      elt_num - the element number within the object
* Out: stress - the stress tensor at the element center due to
ALL elts
      displ - the displacement of the element center due to ALL elts
*      EXCEPT this element
******/
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void print_elt_data(obj_t *current_obj, elt_t *current_elt, int elt_num,
double displ[3], double stress[3][3])
#else
void print_elt_data(current_obj, current_elt, elt_num,
displ, stress)
obj_t *current_obj;
elt_t *current_elt;
int elt_num;
double displ[3];
double stress[3][3];
#endif

```

```

{
    double half_b[3];
    double displ_pos[3];
}

```

```
double   displ_neg[3];
double   normal_vector[3];
double   traction[3];
double   b[3];
double   center[3];
int       i;
```

```
copy_vector(current_elt->elt_csys.origin,center);
transform_position_vector(FORWARD_TRANS,
    current_obj->pos_csys->origin,
    current_obj->pos_csys->local_rot,
    center);
```

```
/* Print element location info
-----*/
for (i=0; i < NUM_PR_OPTS; i++) {
    if (current_obj->print[i]) {
        fprintf(tempfp_E[i],OBJ_LOC_FMT,elt_num,center[0],
            center[1],center[2]);
    }
}
```

```
/* Print displacement data if requested
-----*/
if (current_obj->print[DISPL]) {
```

```
/* Rotate displacement vector to the bc coordinate sys
-----*/
rotate_vector(FORWARD_ROT,current_elt->bc_csys->local_rot,displ);
```

```
/* Compute the absolute displacements of the pos and neg sides
of the element by adding the displacement discontinuity to
the calculated displacement
-----*/
```

```
for (i=0; i < 3; i++) {
    b[i] = *current_elt->b[i];
}
scalar_vector_mult(0.5,b,half_b);
add_vectors(displ,half_b,displ_pos);
subtract_vectors(displ,half_b,displ_neg);

fprintf(tempfp_E[DISPL],OBJ_DISPL_FMT,
    b[0],displ_pos[0],displ_neg[0],
    b[1],displ_pos[1],displ_neg[1],
    b[2],displ_pos[2],displ_neg[2]);
}
```

```
/* Print stress (traction) data if requested
-----*/
if (current_obj->print[STRESS]) {
```

```
/* Calculate the traction vector on the element plane and
rotate to bc coordinates
-----*/
normal_vector[0] = normal_vector[1] = 0.0;
normal_vector[2] = -1.0;
```

```
rotate_vector(INVERSE_ROT,current_elt->elt_csys.local_rot,
    normal_vector);
cauchy(stress,normal_vector,traction);
rotate_vector(FORWARD_ROT,
    current_elt->bc_csys->local_rot,traction);
```

```
fprintf(tempfp_E[STRESS],OBJ_STRESS_FMT,traction[0],
    traction[1],traction[2]);
}
```

```
/* Print BC coord sys name
-----*/
for (i=0; i < NUM_PR_OPTS; i++) {
    if (current_obj->print[i]) {
        fprintf(tempfp_E[i],OBJ_BC_CSYS_FMT,
            current_elt->bc_csys->name);
    }
}
```

```
/****** Function: print_obs_pt_data *****
* Prints stress, strain, and displacement data for an observation point.
* In: current_obs_grid - the obs grid to which the obs point belongs
*      x                 - coordinates (global) of the
*      observation point - the displacement (global coords) at the
*      displ              - the strain (global coords) at the
*      strain              - the strain (global coords) at the
*      obs point
-----*/
```

```
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void print_obs_pt_data(obs_grid_t *current_obs_grid, double x[3],
    double displ[3], double strain[3][3])
```

```
#else
void print_obs_pt_data(current_obs_grid, x, displ, strain)
obs_grid_t *current_obs_grid;
double x[3];
double displ[3];
double strain[3][3];
#endif
```

```
double stress[3][3];
double prin[3];
double traj[3][3];
double x_copy[3];
csys_t *obspt_csys;
csys_t *outp_csys;
int i;
```

```
obspt_csys = current_obs_grid->obspt_csys;
outp_csys = current_obs_grid->outp_csys;
```

```
copy_vector(x,x_copy);
transform_position_vector(FORWARD_TRANS,obspt_csys->origin,
    obspt_csys->local_rot,x_copy);
```

```
/* Print observation point location to temp files
-----*/
```

```
for (i=0; i < NUM_PR_OPTS; i++) {
    if (current_grid->print[i]) {
        fprintf(tempfp_E[i],OG_LOC_FMT,x_copy[0],x_copy[1],x_copy[2]);
    }
}
```

```
/* Print displacement data to temp file
-----*/
```

```
if (current_obs_grid->print[DISPL]) {
    rotate_vector(FORWARD_ROT,outp_csys->local_rot,displ);
    if (below_vertex_E)
        initialize_vector(displ,null_value_E);
    fprintf(tempfp_E[DISPL],OG_DISPL_FMT,displ[0],displ[1],displ[2]);
}
```

```
/* Print stress data to temp file
-----*/
```

```
if (current_obs_grid->print[STRESS] || current_obs_grid->print[PSTRESS]) {
```

```
strain_to_stress(strain, shear_mod_E, lame_lambda_E, stress);
rotate_tensor(FORWARD_ROT,outp_csys->local_rot,stress);
```

```
if (current_obs_grid->print[STRESS]) {
    if (below_vertex_E)
        initialize_matrix(stress,null_value_E);
```

```
fprintf(tempfp_E[STRESS],OG_STRESS_FMT,stress[0][0],stress[1][1],
    stress[2][2], stress[0][1], stress[1][2], stress[0][2]);
}
```

```
if (current_obs_grid->print[PSTRESS]) {
```

```
/* Calculate principal stresses
-----*/
```

```
if (below_vertex_E) {
    initialize_vector(prin,null_value_E);
    initialize_matrix(traj,null_value_E);
} else {
    principal(stress, prin, traj);
}
```

```
fprintf(tempfp_E[PSTRESS],OG_PSTRESS_FMT,
    traj[0][0], traj[0][1], traj[0][2], prin[0],
    traj[1][0], traj[1][1], traj[1][2], prin[1],
    traj[2][0], traj[2][1], traj[2][2], prin[2]);
}
```

```
/* Print strain data to temp file
-----*/
```

```
if (current_obs_grid->print[STRAIN] || current_obs_grid->print[PSTRAIN]) {
```

```
rotate_tensor(FORWARD_ROT,outp_csys->local_rot,strain);
```

```
if (current_obs_grid->print[STRAIN]) {
    if (below_vertex_E)
        initialize_matrix(strain,null_value_E);
```

```
fprintf(tempfp_E[STRAIN],OG_STRAIN_FMT,strain[0][0],strain[1][1],
    strain[2][2], strain[0][1], strain[1][2], strain[0][2]);
}
```

```
if (current_obs_grid->print[PSTRAIN]) {
```

```
/* Calculate principal strains
-----*/
```

```
if (below_vertex_E) {
    initialize_vector(prin,null_value_E);
    initialize_matrix(traj,null_value_E);
} else {
    principal(strain, prin, traj);
}
```

```
fprintf(tempfp_E[PSTRAIN],OG_PSTRAIN_FMT,
    traj[0][0], traj[0][1], traj[0][2], prin[0],
    traj[1][0], traj[1][1], traj[1][2], prin[1],
    traj[2][0], traj[2][1], traj[2][2], prin[2]);
}
```

```
below_vertex_E = FALSE;
```

```
/****** Function: determine_burgers_vectors *****
* Sets up a system of linear equations to solve for unknown Burgers vector
* components. Each traction boundary condition component given in the input
* file leads to one equation and one unknown. Solves the system of equations
* using the functions d_ludcmp() and d_lubksb() adapted from the book
* "Numerical Recipes in C, 2nd Ed." (Press et al., 1992).
```

```
* Modifies:
*   b_vector[] - static array holding (previously) unknown Burgers
*               vector components
*   "current_elt"->b[i] - pointer to ith component of Burgers vector.
*-----*/
void determine_burgers_vectors()
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void determine_burgers_vectors()
#else
void determine_burgers_vectors()
#endif
```

```
{
    elt_t *elt1;
    elt_t *elt2;
    int num_eqns = 0;
    int eqn_num = 0;
    double **ic_matrix;
    double **ic_matrix_inv;
    double *b_vector;
```

```

double *column;
double norm1;
double norm2;
int *pivot;
int i, j;
int row;
int rplus;
int col;
int cplus;
double stress_ic[3][3][3];
double traction_ic[3][3];
double displ_ic[3][3];
double strain_ic[3][3][3];
double d;
double normal_vector[3];

/* Determine number of simultaneous equations */
elt1 = first_elt_E;
while (elt1 != NULL) {
    for (i=0; i < 3; i++) {
        if (elt1->bc_type[i] == TRACTION_BC)
            num_eqns++;
    }
    elt1 = elt1->next;
}

/* Allocate memory for matrix and vectors. Note that indicies range
from [1..num_eqns] rather than [0..num_eqns-1] for compatibility
with "Numerical Recipes" functions used below */
ic_matrix = dmatrix(1,num_eqns,1,num_eqns);
ic_matrix_inv = dmatrix(1,num_eqns,1,num_eqns);
column = dvector(1,num_eqns);
b_vector = dvector(1,num_eqns);
pivot = ivector(1,num_eqns);

/* Set up vectors */
eqn_num = 1;
elt1 = first_elt_E;
while (elt1 != NULL) {
    for (i=0; i < 3; i++) {
        switch (elt1->bc_type[i]) {
            case BVECTOR_BC:
                elt1->b[i] = &elt1->b[i];
                break;
            case TRACTION_BC:
                elt1->b[i] = &b_vector[eqn_num];
                b_vector[eqn_num] = elt1->b[i];
                eqn_num++;
                break;
        }
    }
    elt1 = elt1->next;
}

```

```

row = 1;
elt1 = first_elt_E;
while (elt1 != NULL) {
    if (elt1->bc_type[0] == TRACTION_BC ||
        elt1->bc_type[1] == TRACTION_BC ||
        elt1->bc_type[2] == TRACTION_BC) {

        /* Determine the element normal */
        normal_vector[0] = normal_vector[1] = 0.0;
        normal_vector[2] = -1.0;
        rotate_vector(INVERSE_ROT,elt1->elt_csys.local_rot,
            normal_vector);

        /* Go to first column of influence coefficient matrix */
        col = 1;

        /* Loop over elements */
        elt2 = first_elt_E;
        while (elt2 != NULL) {

            /* Calculate the stress inf coeffs due to this element */
            displ_strain_ics_poly_elt(FALSE,TRUE,elt2,elt1-
                >elt_csys.origin,
                displ_ic, strain_ic, elt2);
            if (below_vertex_E)
                p_error(
                    "One elt's center lies directly under
                    another's vertex",
                    NULL);
            for (i=0; i < 3; i++) {
                strain_to_stress(strain_ic[i],shear_mod_E,lame_lambda_E,
                    stress_ic[i]);
            }

            /* Resolve them into traction inf coeffs */
            for (i=0; i < 3; i++) {
                cauchy(stress_ic[i],normal_vector,traction_ic[i]);
                rotate_vector(FORWARD_ROT,elt1->bc_csys-
                    >local_rot,
                    traction_ic[i]);
            }

            /* Set up inf coeff matrix terms due to this element */
            rplus = 0;
            for (i=0; i < 3; i++) {
                if (elt1->bc_type[i] == TRACTION_BC) {
                    cplus = 0;
                    for (j=0; j < 3; j++) {
                        switch (elt2->bc_type[j]) {
                            case BVECTOR_BC:

```

```

traction_ic[j][i]*
                                b_vector[row+rplus] -=
                                (*elt2->b[j]);
                                break;
                                case TRACTION_BC:
                                    traction_ic[j][i];
                                    cplus++;
                                    break;
                                } /*switch*/
                            } /*for*/
                            rplus++;
                        } /*if*/
                    } /*for*/
                    col += cplus;
                    elt2 = elt2->next;
                } /*while*/
            } /*if*/
            row += rplus;
            elt1 = elt1->next;
        } /*while*/

/* Calculate L-infinity maximum matrix of ic_matrix */
if (check_cond_num_E && num_eqns != 0) {
    norm1 = array_max_norm(ic_matrix,1,num_eqns,1,num_eqns);
}

/* Solve the system of linear eqns (courtesy of "Numerical Recipes") */
d_ludcmp(ic_matrix, num_eqns, pivot, &d);
d_lubksb(ic_matrix, num_eqns, pivot, b_vector);

/* Compute the matrix condition number if requested. */
if (check_cond_num_E && num_eqns != 0) {
    /* Finish inverting ic_matrix */
    for (i=1; i <= num_eqns; i++) {
        for (j=1; j <= num_eqns; j++)
            column[j] = 0.0;
        column[i] = 1.0;
        d_lubksb(ic_matrix, num_eqns, pivot, column);
        for (j=1; j <= num_eqns; j++)
            ic_matrix_inv[j][i] = column[j];
    }

    /* Calculate L-infinity maximum norm of the inverted ic_matrix */
    norm2 = array_max_norm(ic_matrix_inv,1,num_eqns,1,num_eqns);
    cond_num_E = norm1 * norm2;
}

```

```

/* Free memory used by vectors/matrices, EXCEPT for b_vector */
free_dmatrix(ic_matrix,1,num_eqns,1,num_eqns);
free_dmatrix(ic_matrix_inv,1,num_eqns,1,num_eqns);
free_dvector(column,1,num_eqns);
free_ivector(pivot,1,num_eqns);
}

```

```

/****** Function: read_line *****/
/* Uses getwords() to read a line from the input file. Adjusts numwords
* appropriately if the line contains a comment character. Returns number
* of words on line.
*
* Out: line - the line read from the input file
* In: word[i] - the ith word on the line (null-terminated string)
***** */
#ifdef _STDC_ || defined(ANSI) /* ANSI */
int read_line(char *line, char *word[])
#else
int read_line(line, word)
char *line;
char *word[];
#endif

{
    int numwords;
    char error_msg[MAX_ERROR_MSG];
    int i, j;
    int exit;

    /* get line, exit function on EOF */
    if ((numwords = getwords(&fp_E,line,MAXLINE,word,MAXWORDS,
        CONTINUE_CHAR)) < 0) {
        switch (numwords) {
            case GW_EOF_ERR:
                p_error("Unexpected EOF in getwords()\n",NULL);
            case GW_MALLOC_ERR:
                p_error("Memory allocation error in getwords()\n",NULL);
            case GW_MAXWORDS_ERR:
                p_error("Too many words error in getwords()\n",NULL);
        }
    } /*if*/

    /* if line contains a comment, adjust numwords accordingly */
    exit = FALSE;
    for (i=0; !exit && (i < numwords); i++) {
        /* Loop over characters in word. If comment character is found,
        replace with '\0' and exit loop. */
        j = 0;
        while (word[i][j] != '\0') {
            if (word[i][j] == COMMENT_CHAR) {

```



```

        word[i][j] = '\0';
        exit = TRUE;
        break;
    }
    j++;
}
if (exit)
    numwords = (j == 0) ? i-1 : i;

return(numwords);
}

/***** Function: get_double_var *****/
* Function for assigning values to double variables. Returns TRUE if an
* assignment is made, or FALSE otherwise.
*
* In:      var_name - name used for this variable in the input file
*          word      - array of words given in the input line
*          numwords  - number of words on the input line
* In/Out:  var       - variable to which a value is to be assigned
*****/
#if defined(_STDC_) || defined(ANSI) /* ANSI */
int get_double_var(double *var, char *var_name, char *word[], int numwords)
#else
int get_double_var(var, var_name, word, numwords)
double *var;
char *var_name;
char *word[];
int numwords;
#endif

{
    if (!strcmp(word[CONST_NAME_POS], var_name)) {
        if (numwords == CONST_NUM_PARAMS) {
            *var = atof(word[CONST_VALUE_POS]);
        }
        return(TRUE);
    }
    return(FALSE);
}

/***** Function: get_boolean_var *****/
* Function for assigning values to boolean variables. Returns TRUE if an
* assignment is made, or FALSE otherwise.
*
* In:      var_name - name used for this variable in the input file
*          true_string - true value string for this var in input
*          file        - false value string for this var in input
*          word        - array of words given in the input line
*          numwords    - number of words on the input line
*          line        - line read from the input file
*****/

```

```

* In/Out:  var       - variable to which a value is to be
assigned
*****/
#if defined(_STDC_) || defined(ANSI) /* ANSI */
int get_boolean_var(int *var, char *var_name, char *true_string,
char *false_string, char *word[], int numwords, char *line)
#else
int get_boolean_var(var, var_name, true_string, false_string, word, numwords,
line)
int *var;
char *var_name;
char *true_string;
char *false_string;
char *word[];
int numwords;
char *line;
#endif

{
    char error_msg[MAX_ERROR_MSG];

    if (!strcmp(word[CONST_NAME_POS], var_name)) {
        if (numwords == CONST_NUM_PARAMS) {
            if (!strcmp(word[CONST_VALUE_POS], true_string))
                *var = TRUE;
            else if (!strcmp(word[CONST_VALUE_POS], false_string))
                *var = FALSE;
            else {
                sprintf(error_msg, "%s requires a value of \"%s\" or \"%s\"",
                    var_name, true_string, false_string);
                p_error(error_msg, line);
            }
        }
        return(TRUE);
    }
    return(FALSE);
}

/***** Function: get_text_var *****/
* Function for assigning values to test variables. Returns TRUE if an
* assignment is made, or FALSE otherwise.
*
* In:      var_name - name used for this variable in the input file
*          word      - array of words given in the input line
*          numwords  - number of words on the input line
*          line      - line read from the input file
* In/Out:  var       - variable to which a value is to be assigned
*****/
#if defined(_STDC_) || defined(ANSI) /* ANSI */
int get_text_var(char **var, char *var_name, char *word[], int numwords,
char *line)
#else
int get_text_var(var, var_name, word, numwords, line)
char **var;
char *var_name;

```

```

char *word[];
int numwords;
char *line;
#endif

{
    char error_msg[MAX_ERROR_MSG];

    if (!strcmp(word[CONST_NAME_POS], var_name)) {
        if (numwords == CONST_NUM_PARAMS) {
            *var = (char *) malloc((size_t)
                strlen(word[CONST_VALUE_POS])+1);
            if (!*var) {
                sprintf(error_msg, "Cannot allocate memory for
                %s", var_name);
                p_error(error_msg, line);
            }
            strcpy(*var, word[CONST_VALUE_POS]);
        }
        return(TRUE);
    }
    return(FALSE);
}

/***** Function: get_vert_info *****/
* Reads vertex info and sets up new member in linked list of vertices.
*
* In:      numwords - number of words on input line
*          word      - array of words given in the input line
*          line      - the input line
* In/Out:  current_vert - the current (last) vertex in the linked list
*****/
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void get_vert_info(vert_t **current_vert, int numwords, char *word[],
char *line)
#else
void get_vert_info(current_vert, numwords, word, line)
vert_t **current_vert;
int numwords;
char *word[];
char *line;
#endif

{
    int i;
    char error_msg[MAX_ERROR_MSG];

    /* Check for proper number of parameters
    *****/
    if (numwords != V_NUM_PARAMS) {
        sprintf(error_msg,
            "Too %s parameters specified to define vertex",
            (numwords < V_NUM_PARAMS) ? "few" : "many");
        p_error(error_msg, line);
    }
}

```

```

/* Allocate memory for vertex
*****/
if (first_vert_E == NULL) {
    first_vert_E = (vert_t *) calloc((size_t) 1, sizeof(vert_t));
    if (!first_vert_E)
        p_error("Cannot allocate memory (calloc) for vertex",
            line);
    *current_vert = first_vert_E;
} else {
    (*current_vert)->next = (vert_t *)
        calloc((size_t) 1, sizeof(vert_t));
    if (!(*current_vert)->next)
        p_error("Cannot allocate memory (calloc) for vertex",
            line);
    *current_vert = (*current_vert)->next;
}

/* Get vertex name
*****/
(*current_vert)->name = (char *) malloc((size_t)
    strlen(word[V_NAME_POS])+1);
if (!(*current_vert)->name)
    p_error("Cannot allocate memory for vertex name",
        line);
strcpy((*current_vert)->name, word[V_NAME_POS]);

/* Get the coordinate system
*****/
if (((*current_vert)->csys = find_csys(word[V_CSYS_POS]))
    == NULL) {
    p_error("Undefined coordinate system",
        line);
}

/* Read the vertex position
*****/
for (i=0; i < 3; i++)
    (*current_vert)->x[i] = atof(word[V_X_POS+i]);

/* Transform vertex position vector to global coords
*****/
transform_position_vector(INVERSE_TRANS,
    (*current_vert)->csys->origin,
    (*current_vert)->csys->local_rot,
    (*current_vert)->x);

/* Prevent sloppy memory references:
*****/
(*current_vert)->next = NULL;
}

/***** Function: get_obj_info *****/
* Reads object info and sets up new member in linked list of objects.
*
* In:      numwords - number of words on input line
*          word      - array of words given in the input line

```

```

* In/Out: current_obj - the current (last) object in the linked list
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void get_obj_info(obj_t **current_obj, int numwords, char *word[], char *line)
#else
void get_obj_info(current_obj, numwords, word, line)
obj_t **current_obj;
int numwords;
char *word[];
char *line;
#endif

{
    int i;
    char temp_char;

    /* Check for proper number of parameters
    ***** */
    if (numwords != OBJ_MIN_NUM_PARAMS &&
        numwords != OBJ_MIN_NUM_PARAMS+2) {
        p_error(
            "Incorrect number of parameters specified to define object",
            line);
    }

    /* Allocate memory for object
    ***** */
    if (first_obj_E == NULL) {
        first_obj_E = (obj_t *) calloc((size_t) 1, sizeof(obj_t));
        if (!first_obj_E)
            p_error("Cannot allocate memory (calloc) for object",
                line);
        *current_obj = first_obj_E;
    } else {
        (*current_obj)->next = (obj_t *)
            calloc((size_t) 1, sizeof(obj_t));
        if (!(*current_obj)->next)
            p_error("Cannot allocate memory (calloc) for object",
                line);
        *current_obj = (*current_obj)->next;
    }

    /* Get object name
    ***** */
    (*current_obj)->name = (char *) malloc((size_t)
        strlen(word[OBJ_NAME_POS])+1);
    if (!(*current_obj)->name)
        p_error("Cannot allocate memory for object name",
            line);
    strcpy((*current_obj)->name, word[OBJ_NAME_POS]);

    if (numwords > OBJ_MIN_NUM_PARAMS) {
        /* Get the print options
        ***** */
        i = 0;

```

```

(*current_obj)->print[DISPL] =
    (*current_obj)->print[STRESS] = FALSE;
while ((temp_char = word[OBJ_PRINT_OPS_POS][i]) != '\0') {
    switch (temp_char) {
        case BVECTOR_CHAR:
            (*current_obj)->print[DISPL] = TRUE;
            break;
        case TRACTION_CHAR:
            (*current_obj)->print[STRESS] = TRUE;
            break;
        default:
            p_error("Invalid object print option", line);
    }
    i++;
}

/* Get the coordinate system for element positions
***** */
if ((*current_obj)->pos_csys =
    find_csys(word[OBJ_POS_CSYS_POS])) == NULL) {
    p_error("Undefined coordinate system", line);
}

(*current_obj)->first_elt = NULL;

/* Prevent sloppy memory references:
***** */

(*current_obj)->next = NULL;
}

```

```

***** Function: get_elt_info *****
* Reads element info and sets up new member in linked list of elements.
*
* In:      numwords - number of words on input line
*          word     - array of words given in the input line
*          line     - the input line
* In/Out:  current_elt - the current (last) element in the linked list
*          current_obj - the object to which current_elt belongs
*****
#ifdef __STDC__ || defined(ANSI) /* ANSI */
void get_elt_info(elt_t **current_elt, obj_t *current_obj, int numwords,
    char *word[], char *line)
#else
void get_elt_info(current_elt, current_obj, numwords, word, line)
elt_t **current_elt;
obj_t *current_obj;
int numwords;
char *word[];
char *line;
#endif

{
    int num_vertices;

```

```

int num_params;
int i, j;
char error_msg[MAX_ERROR_MSG];
vert_t *vert1;
vert_t *vert2;
double dx[3];
double trend;
double plunge;
double rot2[3][3];
double rot1[3][3];
double trac_bc_adjust[3];
int seg;
vert_t *vert[3];
double vert_x[3];
double vector1[3];
double vector2[3];
double normal_vector[3];
double x[3][3];
double global_x[3][3];
disloc_seg_t *disloc_seg;
static char *elt_csys_name;

/* Increment num_elts_E
***** */
num_elts_E++;

/* Get the number of vertices
***** */
num_vertices = atoi(word[E_NUM_VERT_POS]);
if (num_vertices < 3)
    p_error("Element must have at least three vertices", line);

/* Check for proper number of parameters
***** */
num_params = E_MIN_NUM_PARAMS + (num_vertices-3);
if (numwords != num_params) {
    sprintf(error_msg,
        "Too %s parameters specified to define %d-sided element",
        (numwords < num_params) ? "few" : "many", num_vertices);
    p_error(error_msg, line);
}

/* Allocate memory for this element
***** */
if (first_elt_E == NULL) {
    first_elt_E = (elt_t *) malloc(sizeof(elt_t));
    if (!first_elt_E)
        p_error("Cannot allocate memory for element", line);
    *current_elt = first_elt_E;
} else {
    (*current_elt)->next = (elt_t *) malloc(sizeof(elt_t));
    if (!(*current_elt)->next)
        p_error("Cannot allocate memory for element", line);
    *current_elt = (*current_elt)->next;
}

```

```

/* Set object pointers to first and last elements
***** */
if (first_obj_E == NULL)
    p_error("No objects defined. Element must be part of an
object", line);
if (current_obj->first_elt == NULL)
    current_obj->first_elt = *current_elt;
current_obj->last_elt = *current_elt;

/* Set the number of vertices
***** */
(*current_elt)->num_vertices = num_vertices;

/* Allocate memory for dislocation segment array
***** */
(*current_elt)->disloc_seg = (disloc_seg_t *)
    calloc((size_t) num_vertices, sizeof(disloc_seg_t));
if (!(*current_elt)->disloc_seg)
    p_error("Cannot allocate memory for dislocation segment array",
        line);

/* Get dislocation segment vertices
***** */
for (i = 0; i < num_vertices; i++) {
    j = (i == (num_vertices-1)) ? 0 : i+1;
    if (i != 0) {
        (*current_elt)->disloc_seg[i].vert[0] =
            (*current_elt)->disloc_seg[i-1].vert[1];
    } else {
        if ((*current_elt)->disloc_seg[i].vert[0] =
            find_vert(word[E_VERTEX_POS+i])) == NULL) {
            p_error("Undefined vertex", line);
        }
    }
    if ((*current_elt)->disloc_seg[i].vert[1] =
        find_vert(word[E_VERTEX_POS+j])) == NULL) {
        p_error("Undefined vertex", line);
    }
}

/* Initialize rotation matrices
***** */
initialize_matrix(rot2, 0.0);
initialize_matrix(rot1, 0.0);

initialize_vector((*current_elt)->elt_csys.origin, 0.0);

/* Loop over the dislocation segments
***** */
disloc_seg = (*current_elt)->disloc_seg;
for (seg = 0; seg < (*current_elt)->num_vertices; seg++) {

    /* Calculate this dislocation segment's first vertex's contribution
    to the element center
    *****

```

```

for (i=0; i < 3; i++) {
    (*current_elt)->elt_csys.origin[i] +=
        disloc_seg[seg].vert[0]->x[i] / (*current_elt)-
>num_vertices;
}

/* Determine the two vertices for this dislocation segment */
vert1 = disloc_seg[seg].vert[0];
vert2 = disloc_seg[seg].vert[1];

/* Calculate trend and plunge of this dislocation segment */
subtract_vectors(vert2->x,vert1->x,dx);
trend = PI/2.0 - safe_atan2(dx[1],dx[0]);
disloc_seg[seg].trend = trend;
plunge = -safe_atan(dx[2],sqrt(dx[0]*dx[0] + dx[1]*dx[1]));
disloc_seg[seg].plunge = plunge;

/* Calculate the segment-local (Comninou & Dundurs) to global
coordinates rotation matrix */
rot2[0][0] = 1.0;
rot2[1][1] = rot2[2][2] = -1.0;
rot1[0][0] = rot1[1][1] = sin(trend);
rot1[1][0] = -rot1[0][1] = cos(trend);
rot1[2][2] = 1.0;
matrix_mult(rot2,rot1,disloc_seg[seg].local_rot);
} /*for*/

/* Compute element's local coordinate system */
if (elt_csys_name == NULL) {
    elt_csys_name = (char *) malloc((size_t) strlen(ELT_CSYS_NAME)+1);
    if (!elt_csys_name)
        p_error("Cannot allocate memory for elt-local coord sys name",
            NULL);
    strcpy(elt_csys_name,ELT_CSYS_NAME);
}
(*current_elt)->elt_csys.name = elt_csys_name;

for (i=0; i < 3; i++) {
    for (j=0; j < 3; j++) {
        global_x[i][j] = (i == j) ? 1.0 : 0.0;
    }
}
for (i=0; i < 3; i++) {
    vert[i] = disloc_seg[(i*(*current_elt)->num_vertices)/3].vert[0];
}
subtract_vectors(vert[1]->x,vert[0]->x,vector1);
subtract_vectors(vert[2]->x,vert[0]->x,vector2);
normalize_vector(vector1);
normalize_vector(vector2);

cross_product(vector1,vector2,x[2]);
if (vector_magnitude(x[2]) < TINY_ANGLE)

```

```

p_error(
    "Cannot calc element normal. Elt must have a very odd shape.",
    line);
normalize_vector(x[2]);
cross_product(global_x[2],x[2],x[1]);
if (vector_magnitude(x[1]) < TINY_ANGLE)
    copy_vector(global_x[1],x[1]);
normalize_vector(x[1]);
cross_product(x[1],x[2],x[0]);
normalize_vector(x[0]);

for (i=0; i < 3; i++) {
    for (j=0; j < 3; j++) {
        (*current_elt)->elt_csys.local_rot[i][j] =
            dot_product(x[i],global_x[j]);
    }
}

/* Check that all vertices are co-planar */
for (seg=0; seg < num_vertices; seg++) {
    copy_vector((*current_elt)->disloc_seg[seg].vert[0]->x,vert_x);
    transform_position_vector(FORWARD_TRANS,
        (*current_elt)->elt_csys.origin,
        (*current_elt)->elt_csys.local_rot,vert_x);
    if (fabs(vert_x[2]) >
        fabs(sqrt(vert_x[0]*vert_x[0]+vert_x[1]*vert_x[1])/COPLANAR_LIMIT))
        p_error("Vertices are not co-planar",line);
}

/* Get the bc coordinate system */
if (!strcmp(word[E_BC_CSYS_POS],ELT_CSYS_NAME)) {
    (*current_elt)->bc_csys = &((*current_elt)->elt_csys);
} else if (!(*current_elt)->bc_csys =
    find_csys(word[E_BC_CSYS_POS])) == NULL) {
    p_error("Undefined coordinate system", line);
}

/* Read the boundary condition types */
for (i=0; i < 3; i++) {
    if (word[E_BC_TYPE_POS][i] == BVECTOR_CHAR)
        (*current_elt)->bc_type[i] = BVECTOR_BC;
    else if (word[E_BC_TYPE_POS][i] == TRACTION_CHAR)
        (*current_elt)->bc_type[i] = TRACTION_BC;
    else {
        p_error("Invalid boundary condition type",
            line);
    }
}

/* Calculate adjustment to traction BCs due to remote stresses */
scalar_vector_mult(-1.0,x[2],normal_vector);
cauchy(rem_stress_E,normal_vector,trac_bc_adjust);

```

```

rotate_vector(FORWARD_ROT,(*current_elt)->bc_csys->local_rot,
    trac_bc_adjust);

/* Read the boundary condition values */
for (i=0; i < 3; i++) {
    (*current_elt)->bc[i] = atof(word[E_BC_POS+i]);

    /* Adjust traction BC components for remote stress */
    if ((*current_elt)->bc_type[i] == TRACTION_BC)
        (*current_elt)->bc[i] -= trac_bc_adjust[i];
}

/* Calculate the projection of each unit component of the element
burgers vector into a segment-local coordinates burgers vector
(for calculating influence coefficients) */
for (seg = 0; seg < (*current_elt)->num_vertices; seg++) {
    for (i=0; i < 3; i++) {
        initialize_vector(disloc_seg[seg].elt_b[i],0.0);
        disloc_seg[seg].elt_b[i][i] = -1.0;
        rotate_vector(INVERSE_ROT,
            (*current_elt)->bc_csys->local_rot,
            disloc_seg[seg].elt_b[i]);
        rotate_vector(FORWARD_ROT,disloc_seg[seg].local_rot,
            disloc_seg[seg].elt_b[i]);
    }
}

/* Prevent sloppy memory references: */
(*current_elt)->next = NULL;
}

/****** Function: open_temp_files *****
* Opens the temporary output files for displacement, strain, principal strain,
* stress, and principal stress data.
* In: print - array of flags giving the data to be printed (determines
* which temp files need to be opened)
*****
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void open_temp_files(int print[])
#else
void open_temp_files(print)
int print[];
#endif

int i;

/* Open temporary files */
for (i=0; i < NUM_PR_OPTS; i++) {
    tempfp_E[i] = NULL;

```

```

if (print[i]) {
    if ((tempfp_E[i] = tmpfile()) == NULL) {
        p_error("Cannot open temporary file",NULL);
    } /*if*/
} /*if*/
}

/****** Function: close_temp_files *****
* Closes the temporary output files for displacement, strain, principal strain,
* stress, and principal stress data.
*****
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void close_temp_files(void)
#else
void close_temp_files()
#endif

int i;

/* Close temporary files */
for (i=0; i < NUM_PR_OPTS; i++) {
    if (tempfp_E[i] != NULL) {
        if (fclose(tempfp_E[i]) == EOF) {
            p_error("Error closing temporary file",NULL);
        } /*if*/
        tempfp_E[i] = NULL;
    } /*if*/
}

/****** Function: copy_temp_files *****
* Copies the temporary output files for displacement, strain, principal strain,
* stress, and principal stress data to the main output file.
*****
#if defined(_STDC_) || defined(ANSI) /* ANSI */
void copy_temp_files(void)
#else
void copy_temp_files()
#endif

int i;
FILE *tfp;
int c;

/* Rewind temp files and copy to main output file */
for (i=0; i < NUM_PR_OPTS; i++) {
    if ((tfp = tempfp_E[i]) != NULL) {

```

```

rewind(tfp);
while ((c = fgetc(tfp)) != EOF)
    fputc(c, ofp_E);
}

/* ***** Function: print_elt_geometry *****
 * Loops over all objects, printing the geometry of each element (name &
 * coordinates of each vertex) to the output file.
 * ***** */
#ifdef _STDC_ || defined(ANSI) /* ANSI */
void print_elt_geometry(void)
#else
void print_elt_geometry()
#endif
{
    csys_t      *elt_geom_csys;
    obj_t *current_obj;
    elt_t *current_elt;
    int      elt_num;
    int      i;
    double   x[3];
    double   first_vert_x[3];

    /* Get element geometry coordinate system
     * ***** */
    if (elt_geom_csys_name_E == NULL) {
        if ((elt_geom_csys = find_csys(GLOBAL_NAME)) == NULL) {
            p_error("Cannot find default coordinate system for
elt_geom_csys",
                NULL);
        }
    }
    if ((elt_geom_csys = find_csys(elt_geom_csys_name_E))
        == NULL) {
        p_error("Coord sys given for elt_geom_csys was never defined",
            NULL);
    }

    /* Print titles
     * ***** */
    fprintf(ofp_E, "\n\n===== \n");
    fprintf(ofp_E, "ELEMENT GEOMETRY (Organized by object)\n");
    fprintf(ofp_E, "COORD SYS: %s\n", elt_geom_csys->name);
    fprintf(ofp_E, "===== \n");

    /* Loop over elements
     * ***** */
    current_obj = first_obj_E;
    current_elt = first_elt_E;
    while (current_elt != NULL) {

```

```

        fprintf(ofp_E, "\n");
        if (current_elt == current_obj->first_elt) {
            elt_num = 1;
            fprintf(ofp_E, "OBJECT: %s\n\n", current_obj->name);
            fprintf(ofp_E, "ELT_GEOM_LABELS");
            fprintf(ofp_E, "ELT_GEOM_UNDNLNS");
        }
        for (i=0; i < current_elt->num_vertices; i++) {
            copy_vector(current_elt->disloc_seg[i].vert[0]->x, x);
            transform_position_vector(FORWARD_TRANS,
                elt_geom_csys->origin, elt_geom_csys->local_rot, x);
            if (i == 0)
                copy_vector(x, first_vert_x);
            fprintf(ofp_E, "ELT_GEOM_FMT", elt_num,
                current_elt->disloc_seg[i].vert[0]-
                >name, x[0], x[1], x[2]);
            fprintf(ofp_E, "ELT_GEOM_FMT", elt_num,
                current_elt->disloc_seg[0].vert[0]->name, first_vert_x[0],
                first_vert_x[1], first_vert_x[2]);

            if (current_elt == current_obj->last_elt)
                current_obj = current_obj->next;

            elt_num++;
            current_elt = current_elt->next;
        }
    }
}

```

```

/* ***** Function: array_max_norm *****
 * Returns the maximum matrix norm (L-infinity norm) of the matrix a.
 * Adapted from a similar function by Ken C. Cruikshank.
 *
 * In: a
 *      start_row - index of the matrix's start row
 *      end_row   - index of the matrix's end row
 *      start_col - index of the matrix's start column
 *      end_col   - index of the matrix's end column
 * ***** */
#ifdef _STDC_ || defined(ANSI) /* ANSI */
double array_max_norm(double **a, int start_row, int end_row, int start_col,
    int end_col)
#else
double array_max_norm(a, start_row, end_row, start_col, end_col)
double **a;
int start_row;
int end_row;
int start_col;
int end_col;
#endif
{
    int i, j;

```

```

double norm;
double row_sum;

norm = 0.0;
for (i = start_row; i <= end_row; i++) {
    row_sum = 0.0;
    for (j = start_col; j <= end_col; j++) {
        row_sum += fabs(a[i][j]);
    }
    norm = MAX(norm, row_sum);
}
return(norm);
}

```

```

/* ***** Function: get_program_args *****
 * Prompts the user for input and output file names. Only used if the
 * symbolic constant FFEROMPT is defined at compile time.
 * ***** */
#ifdef FFEROMPT
#ifdef _STDC_ || defined(ANSI) /* ANSI */
void get_program_args(void)
#else
void get_program_args()
#endif
{
    int      numwords;
    char *word[MAXWORDS];
    char line[MAXLINE];

    /* Get the input file name
     * ***** */
    printf("\n INPUT FILE: ");
    numwords = read_line(line, word);
    switch (numwords) {
        case 0:
            printf(" (Using default value)\n");
            break;
        case 1:
            if (strlen(word[0]) > MAXFILE-1) {
                p_error("File name too long", NULL);
            }
            strcpy(infile_E, word[0]);
            break;
        default:
            p_error("Invalid file name", NULL);
    }

    /* Get the output file name
     * ***** */
    printf("\n OUTPUT FILE: ");
    numwords = read_line(line, word);
    switch (numwords) {
        case 0:
            printf(" (Using default value)\n");
            break;

```

```

        case 1:
            if (strlen(word[0]) > MAXFILE-1) {
                p_error("File name too long", NULL);
            }
            strcpy(outfile_E, word[0]);
            break;
        default:
            p_error("Invalid file name", NULL);
    }
    printf("\n");
}
#endif

```

Complete code and
all library
can be obtained from

<http://pangea.stanford.edu/geomech/>
Software/Software.htm

TESTING Poly 3D

JAC 24,390

CRIDER AND POLLARD: NORMAL-FAULT LINKAGE

JAC

Information potentially subject to copyright protection was redacted from pages 38 and 39 of this scientific notebook. The redacted material is from the reference listed below (p. 39).

Excerpted from Crider & Pollard, 1998 "Fault linkage: Three-dimensional mechanical interaction between echelon normal faults", Journal of Geophysical Research, v. 103, p. 24,373 - 24,391.

Demonstration of Capabilities

The following 3 pages (41-43) illustrate relevant capabilities of Poly3D.

The figures show a map view of 2, overlapping normal faults at the free surface of an elastic half-space.

The shading around the faults shows the relative magnitude of the maximum principal tensile stress due to slip on the faults. This value is generally lower along the flank of the faults and at a maximum at the fault tips.

The tic marks show the direction of the max. principal tensile stress. These are generally E-W, except where perturbed near the faults. Perturbation is greatest near the fault tips and in the zone of overlap.

The 3 examples have 3 different remote boundary conditions, illustrated by the arrows and boxes below each plot.

In A, the lithostatic load is decreased in E-W. In B, the lithostatic load is decreased E-W, but increased N-S by a lesser amount. In C, lithostatic load is decreased E-W and also decreased N-S, but by a lesser amount.

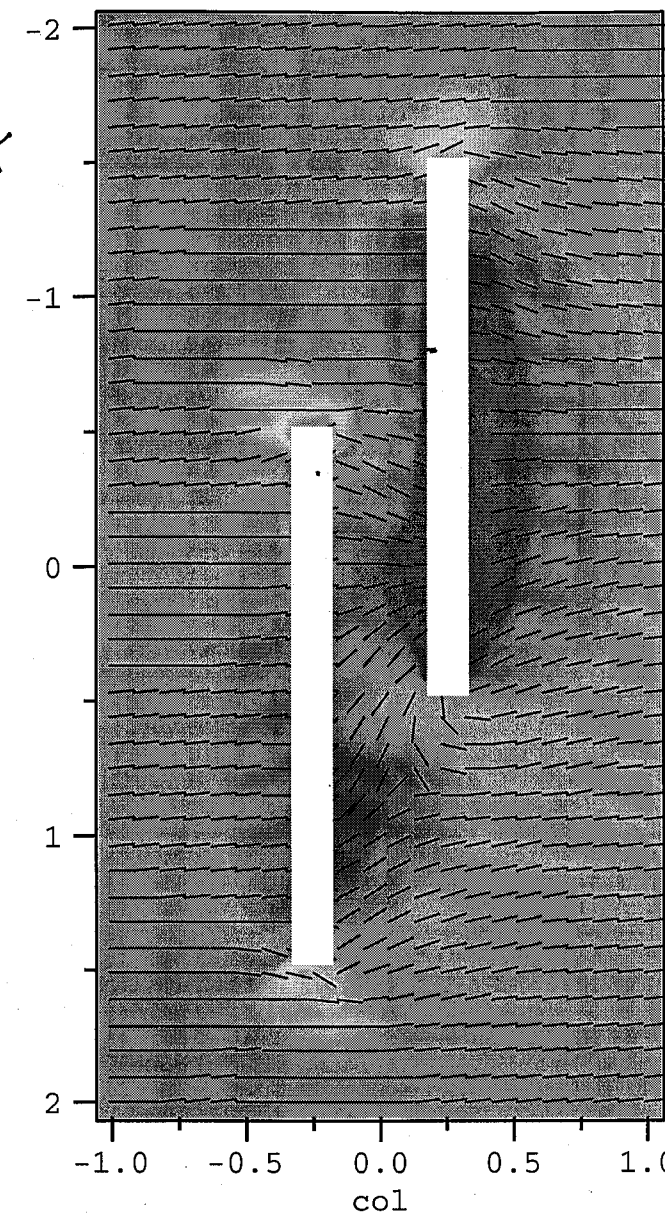
JOC 7-13-01

These results were generated August 8, 1999/jgo

JOC

A

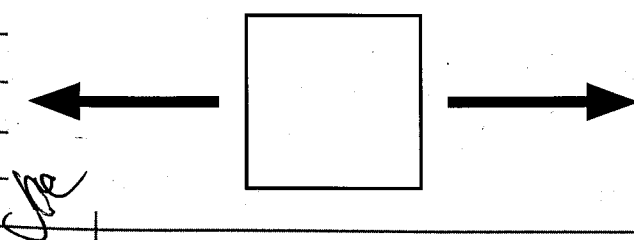
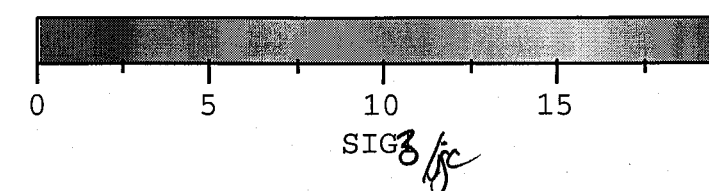
YOM



relative magnitude and orientation of maximum principal (tensile) stress at the free surface.

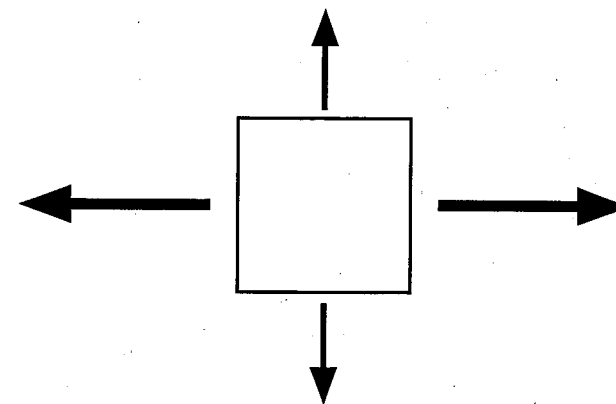
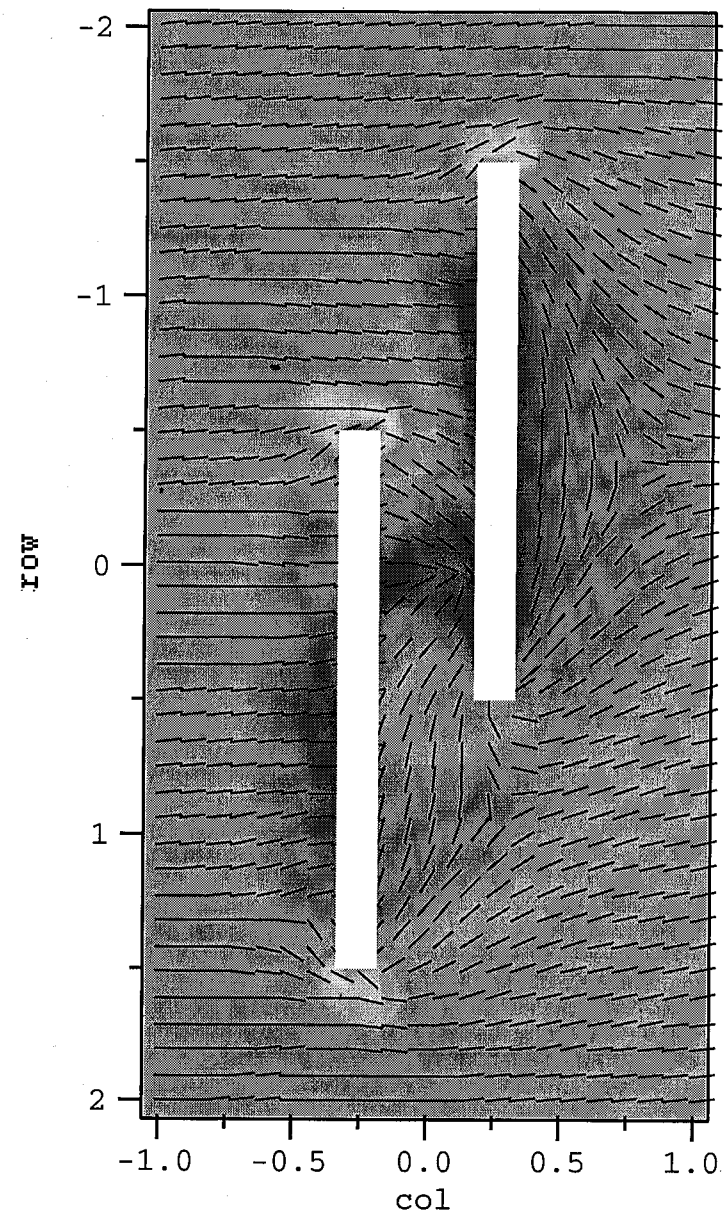
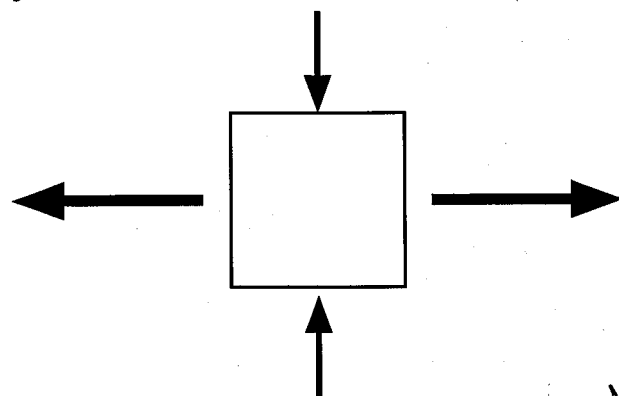
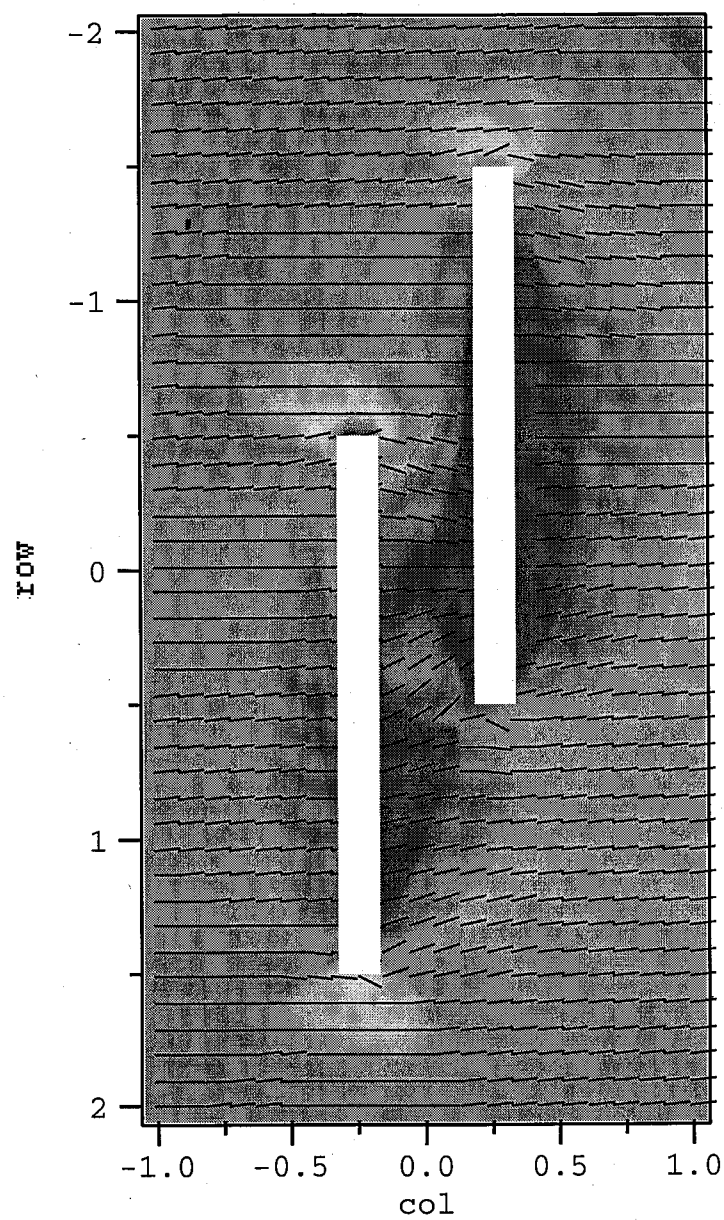
model setup -- two equi-dimensional, planar, semi-circular faults; surface-breaking; elastic half-space, isotropic lithostatic load, remote horizontal stresses applied as shown.

JOC



JOC

JOC



JP
7/15/01

Date: Tue, 10 Aug 1999 13:05:43 -0400 (EDT)
 From: Crider Juliet <jcrider@brynmawr.edu>
 To: Bill Dunne <wdunne@utk.edu>
 Cc: dferrill@swri.edu
 Subject: preliminary trials

Bill, David --

To get us warmed up, I've run a few models of simple, overlapping faults with a variety of remote ("tectonic") boundary conditions.

The results can be viewed at:
<http://www.brynmawr.edu/Acads/Geo/crider/temp/fordf/trial1.jpg>

For the models, I embedded two equi-dimensional, semi-circular faults in an elastic half-space. The faults break the surface, strike N and dip 60 W. They overlap 50% of their surface trace-lengths and are spaced, perpendicular to strike, 25% of their trace lengths. The faults are frictionless and are subject to an isotropic lithostatic load ($\rho g z$). The model configuration is similar to that shown in Crider & Pollard, JGR 1998, figs 5 and 6. (Have I sent you both a copy of that yet?)

I ran three models with different tectonic stresses:
 1) remote E-W tension, magnitude 10 (units not important)
 2) E-W tension = 10 and N-S compression = 5
 3) E-W tension = 10 and N-S tension = 5
 This is shown schematically in the figure.

I have plotted the magnitude and orientation of sigma-1 (max principal stress (tension positive)) at the free-surface of the half-space. Note the near-tip stress concentration at the lateral tips of the faults (yellow & red). Blue & purple illustrate a stress shadow flanking the faults, due principally to near-surface fissuring that these boundary conditions permit.

Tics show orientation of sig-1 -- so mode I fractures will open perpendicular to the tics. These plots are interesting for their illustration of the "swing" in stress direction in the relay zone between the faults. The amount of deviation from the background E-W direction depends on the relative magnitudes of the remote stresses. Case 3 shows the most swing; case 2 shows the least.

These results will also vary somewhat with depth in the model.

Your challenge, then, is to decide what are the relative magnitudes and sign of the tectonic stresses -- and at what depth the Live Yucca fractures were produced.

cheers,

-- Juliet

Date: Tue, 10 Aug 1999 18:04:39 -0400 (EDT)
 From: Crider Juliet <jcrider@brynmawr.edu>
 To: Bill Dunne <wdunne@utk.edu>
 Subject: Re: preliminary trials

Hi Bill --

Fault geometry and configuration will also influence the local stress orientations -- for these trials, I picked simple, round numbers, just so you could see the influence of the remote stresses -- these are not meant to be necessarily representative of Yucca Mt. I'll begin to build some models with more representative geometries next.

cheers,

-- Juliet

.....
 Juliet G. Crider
 Assistant Professor

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 Bryn Mawr, PA 19010-2899 web: www.brynmawr.edu/Acads/Geo/crider

7/13/01

Determination of Boundary Conditions : Tectonic Driving Stresses

Date: Wed, 11 Aug 99 12:09:51 -0600
From: David Ferrill <dferrill@swri.edu>
To: jcrider@brynmawr.edu, wdunne@utk.edu
Subject: Re: preliminary trials

[The following text is in the "ISO-8859-1" character set.]
[Your display is set for the "US-ASCII" character set.]
[Some characters may be displayed incorrectly.]

Greetings Juliet and Bill,

Thanks for your messages. I just got back Sunday from a week in England and am trying to get caught up.

I've asked Debbie to plot the Live Yucca Ridge fracture and pavement map, and also copies of the rose diagrams to send to both of you. I'll Fedex those to you when they are ready.

Your preliminary results look interesting Juliet. From what we know about the present day and Miocene stress fields, my guess is that your first or second models come closer to reality for the area, than does the third. In general, we have concluded that sigma 3 is the "odd axis" in the present day stress field, meaning that sigma two has a magnitude that is closer to sigma 1 than sigma 3. This is constrained by earthquake focal mechanisms. The same relative magnitudes would explain the pattern of Miocene faults at Yucca Mountain that includes both N-S trending normal faults and NW-SE trending right lateral strike slip faults (Morris, Ferrill, and Henderson 1996).

For simple models, we could assume magnitudes like those measured and estimated for the present day stress field. We provide effective stresses for a depth of 1 km in our recent GSA Today paper (Ferrill et al. 1999, page 5) based on borehole investigations of Stock et al. (1985). I'm not sure how the stress information is actually input in your models. We provided a compatible estimate for a depth of 5 km in a 1996 paper in Geology (Morris et al. 1996). A reasonable orientation assumption for the Miocene stress field during tuff deposition would be sigma 1 = vertical, sigma two = N-S, sigma 3 = E-W.

Although not a concern for cooling joint formation, I'd also be interested in seeing models run with the modern stress orientations (sigma 3 = WNW-ESE, sigma 2 = NNE-SSW; as described in Ferrill et al. 1999) for consideration of tectonic joint formation.

We'll have to talk about overlap distance, offset distance, and fault shape at depth in a bit more detail. Please let me know what else you need in the way of stress information.

David

Refs:

Ferrill, D.A., Winterle, J., Wittmeyer, G., Sims, D., Colton, S., Armstrong, A., and Morris, A.P. 1999. Stressed rock strains groundwater at Yucca Mountain, Nevada. GSA Today v. 9, no. 5, 1-8.

Morris, A.P., Ferrill, D.A., and Henderson, D.B. 1996. Slip tendency analysis and fault reactivation. Geology 24, 275-278.

+++++
David A. Ferrill
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San Antonio, Texas 78238-5166
Tel: 210 522-6082
Fax: 210 522-5155
dferrill@swri.edu
+++++

Values for magnitude and orientation of tectonic driving stress were taken from the published literature.

Orientation:

maximum compressive principal stress = vertical S_v
intermediate principal stress = N-S, S_H
max. tensile / min compressive = E-W, S_h

These estimates are for the orientation of the regional stress field at the time of deposition and cooling of the Tiva Canyon tuff (Miocene) and taken from

Zoback M.L.; R.E. Anderson; O.A. Thompson, 1981, "Cenozoic evolution of the state of stress and style of tectonism of the Basin and Range province of the Western United States", Philosophical Transactions of the Royal Society of London, v. A300, p. 407-434.

It is not possible to know with certainty the value for Miocene stresses. We use modern values as a reasonable estimate, as the tectonic setting has not changed. The values I use were determined by Stock et al (1985) as reported in Ferrill et al (1999) - (ref on previous page.)

at 1 km depth

$S_v = 21 \text{ MPa}$ This is approximately the lithostatic load: density \times gravitational acceleration \times depth, given a rock density of 2100 kg/m^3 - appropriate for the region (vertical)

$S_H(\text{max}) = \text{N-S} = 17 \text{ MPa} = \text{lithostatic} - 4 \text{ MPa}$

$S_h(\text{min}) = \text{E-W} = 11 \text{ MPa} = \text{lithostatic} - 10 \text{ MPa}$

thus the Poly3D inputs are:

$$s_{11r} = 10 \text{ MPa}$$

$$s_{22r} = 6 \text{ MPa}$$

In Poly3D tension is positive, s_{11r} is oriented E-W and s_{22r} is oriented N-S.

To compute the total stress field, an isotropic lithostatic load is superimposed on (added to) the solution. This has the form

$$L = \rho g z$$

where z is depth, g is acceleration due to gravity and ρ is rock density. To match the observed values, I use

$$g = 9.8 \text{ m/s}^2$$

$$\rho = 2140 \text{ kg/m}^3$$

to give $S_v = 21 \text{ MPa}$ at 1 km depth

/jgc 7/18/01

Input Parameters: Rock Elastic Parameters

The shear modulus (G) and Poisson's Ratio (ν) are required for Poly3D. The code treats the crust as uniform, isotropic, isothermal — these are clearly simplifications for Yucca Mt at the time of Tule Canyon Luff deposition.

values for these

I chose parameters commonly used in geomechanical and seismic studies to represent a standard crustal rheology. Order of magnitude variations in G do not influence the orientation of calculated principal stresses — thus the results are not sensitive to uncertainty in this parameter.

for input: $G = 30,000 \text{ MPa}$

$$\nu = 0.25$$

/jgc 7/18/01

Determination of Boundary Conditions: fault geometry

jgc

jgc

Date: Tue, 17 Aug 1999 11:35:10 -0400 (EDT)
From: Crider Juliet <jcrider@brynmawr.edu>
To: Bill Dunne <wdunne@utk.edu>
Cc: dferrill@swri.edu
Subject: Re: Fed Ex package

Bill, David --

Got the maps (very nice!) & reprints -- and I am working-up a simple model that is somewhat closer to the actual fault geometry. We can increase the complexity of the fault geometry if the results from simpler models yield something of interest.

One question you will need to consider is how representative is the fracture pattern at LYR of the rest of the region. Because the data sample is localized, a reviewer might wonder if those fractures are influenced by some of the smaller (but closer) faults not included in this analysis. If the pattern is consistent with fracture orientations around the entire Facility, the influence of the larger faults may be demonstrated.

cheers,

-- Juliet

.....
Juliet G. Crider
Assistant Professor

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Bryn Mawr, PA 19010-2899 web: www.brynmawr.edu/Acads/Geo/crider
.....

jgc

jgc

jgc
7/18/01

Date: Tue, 17 Aug 1999 12:13:33 -0400
 From: Bill Dunne <wdunne@utk.edu>
 To: Crider Juliet <jcrider@brynmawr.edu>, dferrill@swri.edu
 Cc: wdunne@utk.edu
 Subject: Re: Fed Ex package

Greetings Juliet,
 The answer to your question is lurking in one of the earlier emails that you may not have had a chance to get to yet (I suspect that your life is busy!). Your question:

>On question you will need to consider is how representative is the
 >fracture pattern at LYR of the rest of the region. Because the data
 >sample is localized, a reviewer might wonder if those fractures are
 >influenced by some of the smaller (but closer) faults not included in this
 >analysis. If the pattern is consistent with fracture orientations around
 >the entire Facility, the influence of the larger faults may be
 >demonstrated.
 >

The answer is shown below. In short, the pattern at LYR is representative of a region 3km (EW) by 5km (NS) based on station sampling of surface joint data in the region. David and I have not systematically confirmed this spatial distribution, but in our visits to some of the sample sites and other related fracture exposures, we have found the orientation component and swarming components of the fracture pattern to replicate (so essentially anecdotal support at this stage in agreement with limited previous work.). Also, the subsurface data are from an older unit and the sample line is about 6 km long with essentially a right-angle turn at about 2 to 2.5 km from EW to NS, so again the orientation and swarm characteristics of the pattern have ariel spread (GOOD NEWS!!).

The target region for similarity of trends of the two sets of cooling joints in the Tiva Canyon is based on an interpretative map by Throckmorton & Verbeek (Fig. 11, Joint Networks in the Tiva Canyon and Topopah Spring Tuffs of the Paintbrush Group, Southwestern Nevada, 1995, USGS Open-File Report 95-2). The map contains a bounded region in which they believe that the orientations of the two cooling joint sets are essentially constant. I (and David!!) have not independently confirmed the consistency of orientation across or beyond this region, but we will take it as a given.

I pulled out Day et al.'s (1998) 1:6000 map, expecting to be able to use grid info on the edges of the map to give you four corner points of what can be treated as a four-sided polygon. Foolish me! At least my color version of the map (an original) only has grid info on the west side in 2500 foot intervals and NOTHING on the two edges top and bottom. So, what follows is messy for polygon (quadrilateral) corners!

NW corner - NW corner of largest crop of Tcrn4 (very pale yellow) on Tonsil Ridge

NE corner - E corner of large crop of Tcrn4 (very pale yellow) on Isolation Ridge at a NS normal fault

SE corner - SE edge of Tcr2 (medium pink) at very SE end of Antler Ridge

SW corner - Tcpl1 (rich medium brown) on west side of Yucca Ridge opposite axis of Broken Limb Ridge on east side of Yucca Ridge

This polygon is inside the one interpreted by Throckmorton and Verbeek. It is approximately 3 km long EW by 5km long NS (that gives you an aspect ratio). Its eastern edge represents a minimum width because there is no data further to the east for 500 to 1000 meters. The polygon lies entirely between the Solitario Canyon Fault and the Bow Ridge Fault, but gets close to both. It virtually contains the Ghost Dance Fault and its northern half is cut by the NW-SE trending Drill Hole Wash Fault.

Assuming the polygon to represent the cooling joint domain of interest (our sample of 100 x 300 m is from the middle EW at about 40% up from S edge - maps that are being sent to you by David), then I would recommend using the Solotario and Bow Ridge (unless David buys into a fault further to the east of the Bow Ridge) as the "control faults".

Debbie's compilation of cooling joint swarms from the ESF, where the underlying Topopah Spring Tuff is sampled, shows the same joint trends for the cooling joints from within the same domain. Consistency of fault behavior through time? The more E-W trending joints in this unit are apparently mostly tectonic (this high intensity joint orientation mode (I am still not sure that they are all of one origin) is the one that DOE did not predict in the subsurface and is giving them some kittens from an engineering point of view with issues such as roof fall). For the time being you don't have to worry about them, but don't be surprised if David comes back asking for their consideration at a later date!

bill

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Date: Fri, 10 Dec 1999 17:15:04 -0500
 From: Bill Dunne <wdunne@utk.edu>
 To: dferrill@swri.edu, Crider Juliet <jcrider@brynmawr.edu>
 Cc: wdunne@utk.edu
 Subject: Tip-line positions, fault subsurface shapes,
 and displacement distributions for Three Normal Faults

Greetings David,

Juliet is here and we are talking about the configuration for the faults in her numerical models.

The first major concern is the location of the tip points for the Solitario Canyon, Bow Ridge, and Paintbrush Canyon faults, because the perturbations in the region stress field are very much controlled in space by the positions of the tip points. So, questions:

Solitario Canyon - Your map from the Fed-Ex package of late last summer shows a location for the northern tip of this fault that is 2+ km to the south of the tip position mapped by both Simonds et al. and Frizzell & Shulters. Which is correct and why?

Bow Ridge - Simonds has a shorter Bow Ridge fault with a more southerly position for the northern tip point by over 2 km with respect to the tip point selected by Frizzell & Shulters. Which is more likely and why?

Paintbrush Canyon - does its southern end stop near the end of Fran Ridge or does it go all the way through Busted Butte as shown by Simonds et al.?

The second major concern is the subsurface fault shapes - Juliet knows that you are going to say that the Solitario Canyon and Paintbrush Canyon faults are listric and sole into a detachment at 6-8 km depth. It is simpler to model rectangles or a 1/2 ellipse, but such isolated shapes would change displacement distributions from reality into the subsurface (go to zero at depth rather than transfer to the sole detachment). So, can the faults stay isolated, or should she build in the sole fault, which she has not experimented with yet. Juliet opinion is that for this example, where we are considering joint formation with 75 m of the ground surface, the exact nature of the fault termination/branches at 6-8 km depth would have little influence on the surface stress trajectories. So, at some level this may not matter, so it would be nice to use the easier isolated faults, BUT if such a simplification would create too much of an "uproar", she would be willing to try to model in the sole fault (BUT!!!! Juliet has no idea whether it would work.).

A third major concern is what about the subsurface extent and shape of the Bow Ridge fault. Does it actually make it to the sole fault? If not, would you be comfortable with using a 1/2 ellipse approximation for subsurface shape?

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Date: Fri, 17 Dec 99 19:25:40 -0600
 From: David Ferrill <dferrill@swri.edu>
 To: wdunne@utk.edu, jcrider@brynmawr.edu
 Subject: Re:Tip-line positions, fault subsurface shapes, and displace

[The following text is in the "ISO-8859-1" character set.]
 [Your display is set for the "US-ASCII" character set.]
 [Some characters may be displayed incorrectly.]

Bill and Juliet, .

[...text omitted...]

I am sorry that I haven't had a chance to call you on the phone to talk this through. Here are some responses to your queries:

1. Solitario Canyon - Check out the Day et al. 1998 1:24000 geologic map of Yucca Mountain. I put the tip of the west dipping Solitario Canyon in the position you describe because the displacement goes to zero, and the northward continuation of the structural trend (which is mapped on some maps as a continuous line) is an east dipping fault. I believe they are two separate faults as mapped by Day et al. 19998 (1:24K map), rather than a single propeller-blade shaped fault surface.

Bow Ridge and Paintbrush - Again, I would suggest going with the recent mapping by Day et al. It is considerably more detailed than the other maps you are looking at. It generally shows the faults as being long and well connected.

2 and 3. I am fine with not modeling a detachment at depth. How deep is the model going to go? Obviously a small model of a large fault will not capture the tip lines. I suspect that some of the faults tip downward. More importantly, however, I agree that the details of fault system geometry in the middle of the brittle crust are unlikely to influence details of the local stress field in the upper hundred meters of crust. We should strive for a model setup for which we can argue that the results are not tied to interpretation of fault system geometry at 5+ km depth.

[...text omitted...]

Sincerely,

David

 David A. Ferrill
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 e-mail: dferrill@swri.edu

Date: Mon, 20 Dec 1999 14:05:21 -0500
 From: Bill Dunne <wdunne@utk.edu>
 To: Crider Juliet <jcrider@brynmawr.edu>
 Cc: wdunne@utk.edu
 Subject: David news and the fault tip stuff

Greetings Juliet,

[...text omitted...]

I took David's recommendation and pulled out the Day et al.'s 1:24,000 map, which is available as a pdf download at:

<http://greenwood.cr.usgs.gov/maps/covers/i-2627/i2627.html>

Here are the recommendations from that:

1) Solitario Canyon Fault - David's pick for the endpoint is good. As he says, to the north is a normal fault that dips east rather than west like the Solitario Canyon Fault.

2) Paintbrush Canyon Fault - The southern end goes off the Day et al. map so it does go all the way through Busted Butte and ends to the south of there as shown on the Simonds et al. map. So, you can pick that termination off of the one page "shaded relief" map with fault traces that David set you.

3) Bow Ridge Fault - well there is news and bad news! The news is that the northern tip of the Bow Ridge is between the ends of the red line and the blue line on David's one page map. It is just to the east of the southern tip of Isolation ridge (a named topographic feature in the PDF version of the map). The bad news (I think) from the modelling point of view is that Day et al. show the Bow Ridge curving sharply SE and almost linking to the Paintbrush Canyon at the southern end of the Bow Ridge, which is to the west of the southern end of Fran Ridge (another named topographic feature in the PDF version). So, a 1/2 ellipse approximation for the Bow Ridge may be interesting....

So, please download the PDF (about 10 MB), and see what you think. Can you mount a page on a website for us both to see your idealized surface traces for the model with respect to David's one page map again. Thanks.

bill

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Date: Tue, 4 Jan 2000 13:28:28 -0500 (EST)
 From: Crider Juliet <jcrider@brynmawr.edu>
 To: Bill Dunne <wdunne@utk.edu>
 Cc: dferrill@swri.edu
 Subject: model fault traces

[...text omitted...]

Bill, David --

Happy New Year to you both.

Revised fault traces for modeling may be viewed at:
http://www.brynmawr.edu/Acads/Geo/crider/temp/fordf/new_traces.JPG

Modeled Solitario CF is 16 km long, strikes 180, dips 60 (right hand rule), and will be modeled as a ~~semi-ellipse~~ ^{rectangle} with a maximum down-dip dimension of 6 km. *later increased to 75°*

Modeled Paintbrush CF is 19 km long (northern tip is arbitrary, but unchanged from first model config), 180/60 and will be a ~~semi-ellipse~~ ^{rectangle} with max down dip of 6 km. *later, 75°*

Modeled Bow Ridge fault is 6 km, 190/60 and also 6 km tall. The 190-strike matches the fault maps better than due S, and should introduce and interesting (minor) oblique component across the fault. This is easily altered if it does not jive with the geology.

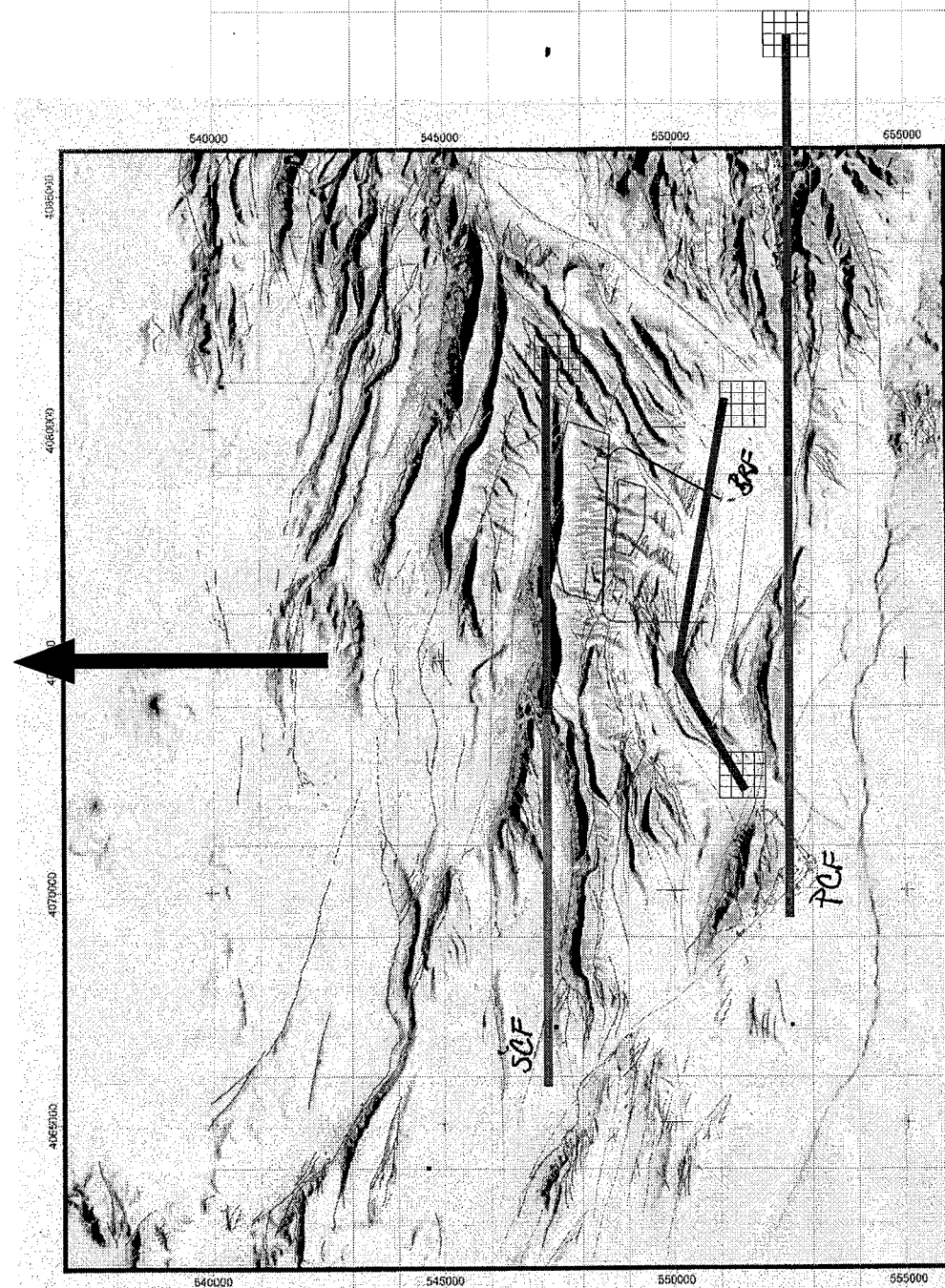
If all goes well, next results in a few days.

cheers,

-- Juliet

.....
 Juliet G. Crider
 Assistant Professor

Department of Geology ph: 610/526-5113
 Bryn Mawr College fax: 610/526-5086
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 Bryn Mawr, PA 19010-2899 web: www.brynmawr.edu/Acads/Geo/crider



✓ Faults from Simonds, et al. (1995)
 ✓ Faults from Frizzell and Shulters (1990)
 ■ Live Yucca Ridge Study Area
 ✓ Exploratory Studies Facility

0 1 2 3 4 Kilometers



Figure generated
 01-04-00
 JCA

Fault length is determined from map at left.

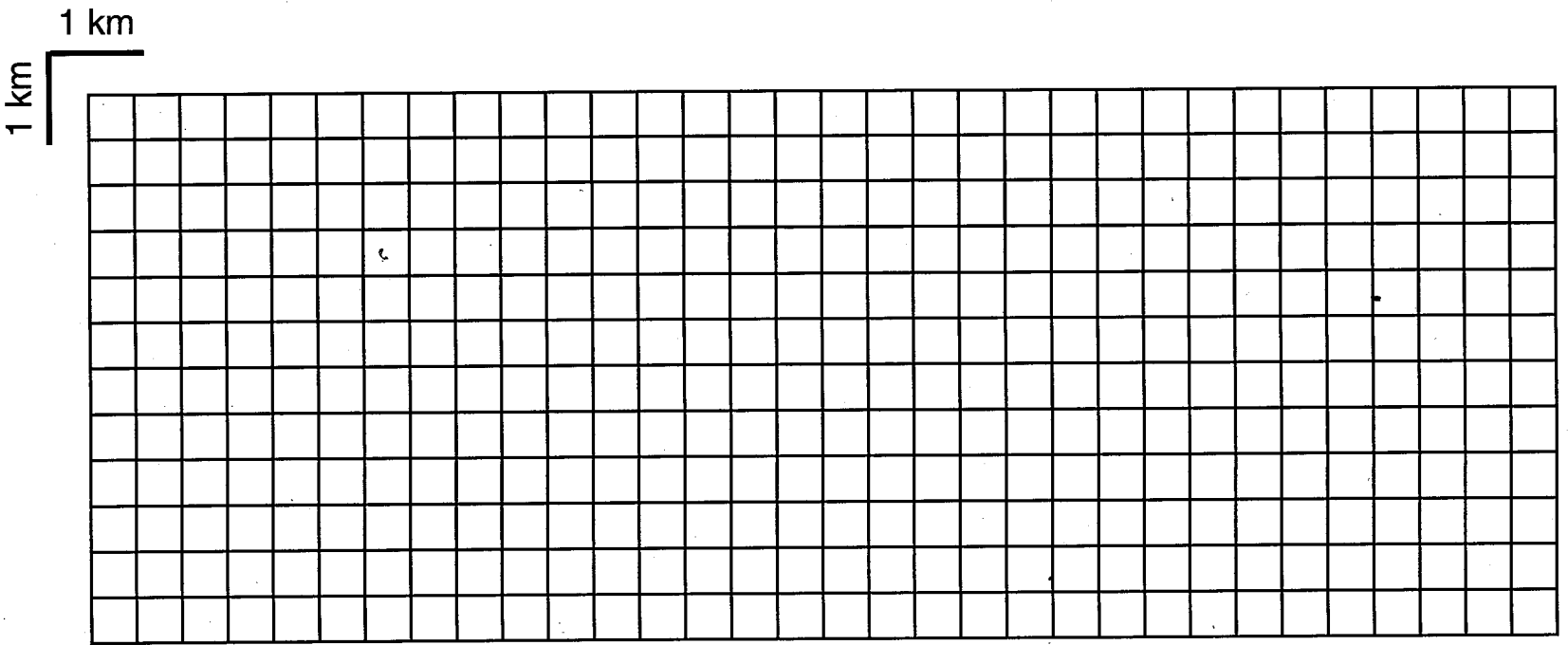
GRID is UTM and centered at 4075000
 550000 (circle near bend in Bow Ridge fault)
 Each square is 1 km.

Down-dip dimension for all faults is 6 km -
 based on depth to detachment determined
 by D. Ferrill and colleagues. Detachment
 is not modeled.

Dip is dip direction as per D. Ferrill.

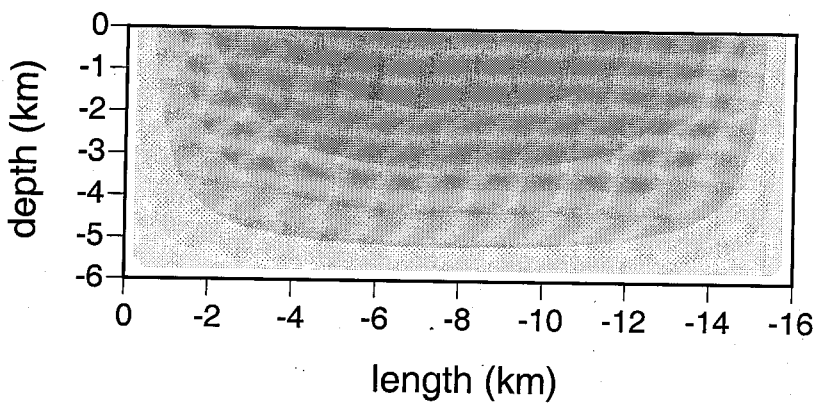
Solitario Canyon Fault - rectangle 16 x 6 km
 Pantborish Canyon Fault - rectangle 19 x 6 km
 Bow Ridge Fault (northern segment) - square 6 x 6 km

Each rectangular fault is meshed with
 elements approximately 500 x 500 m - Each
 element behaves as a dislocation with
 uniform slip. Combined, slip may vary
 across the fault. /jgc 7/17/01

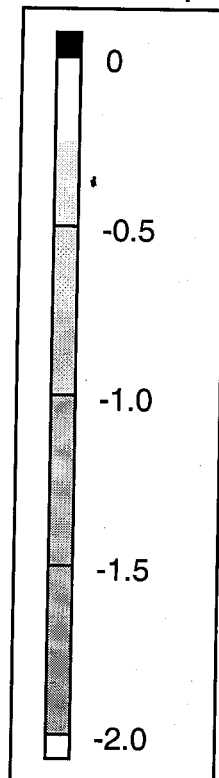


Example fault mesh. The fault is meshed in 500 m x 500 m elements. Principal stresses are calculated on a plane at a depth of 100 m, or within the first row of elements. This figure shows a 16 km x 6 km fault plane (384 elements) used to model the Solitario Canyon Fault.

figure generated
09-03-99
JCE



meters of dip slip

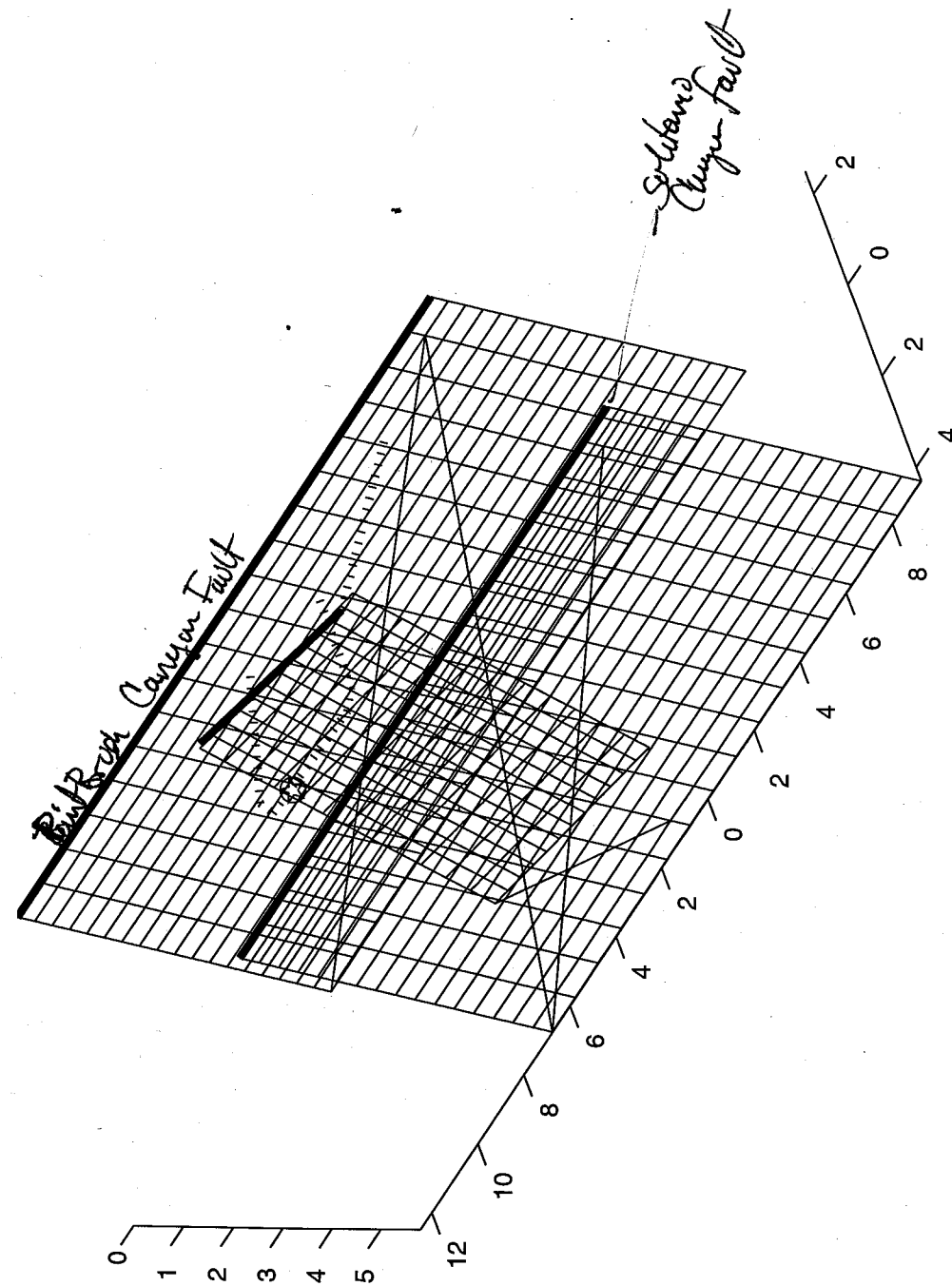
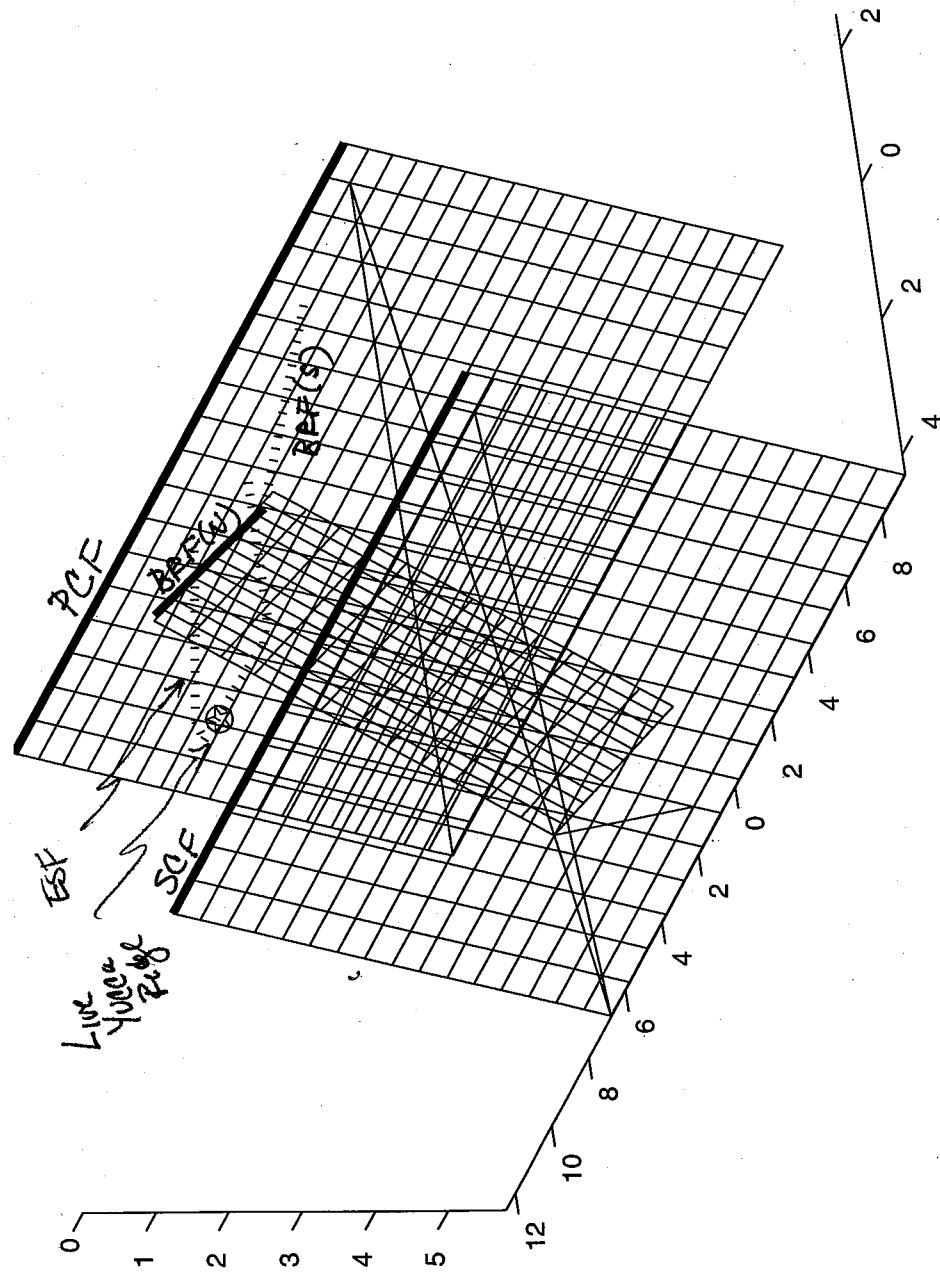


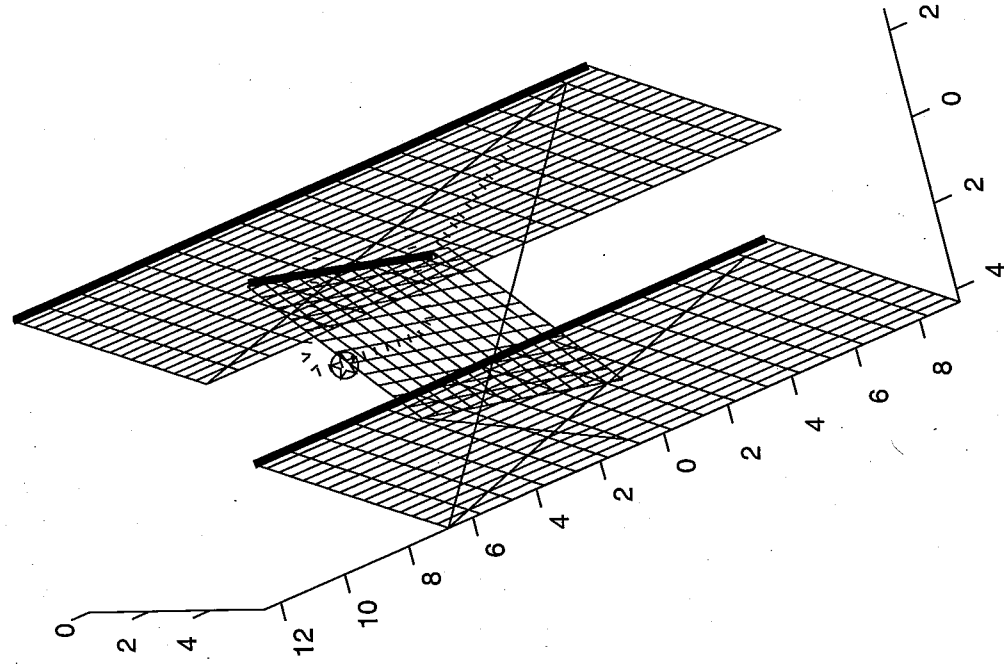
A. An isolated fault

example of dip-slip
distribution on an isolated
fault with dimensions of SCF
and 10 MPa E-W tectonic driving
stresses

figure generated 09/03/99

Perspective views of modeled fault geometry



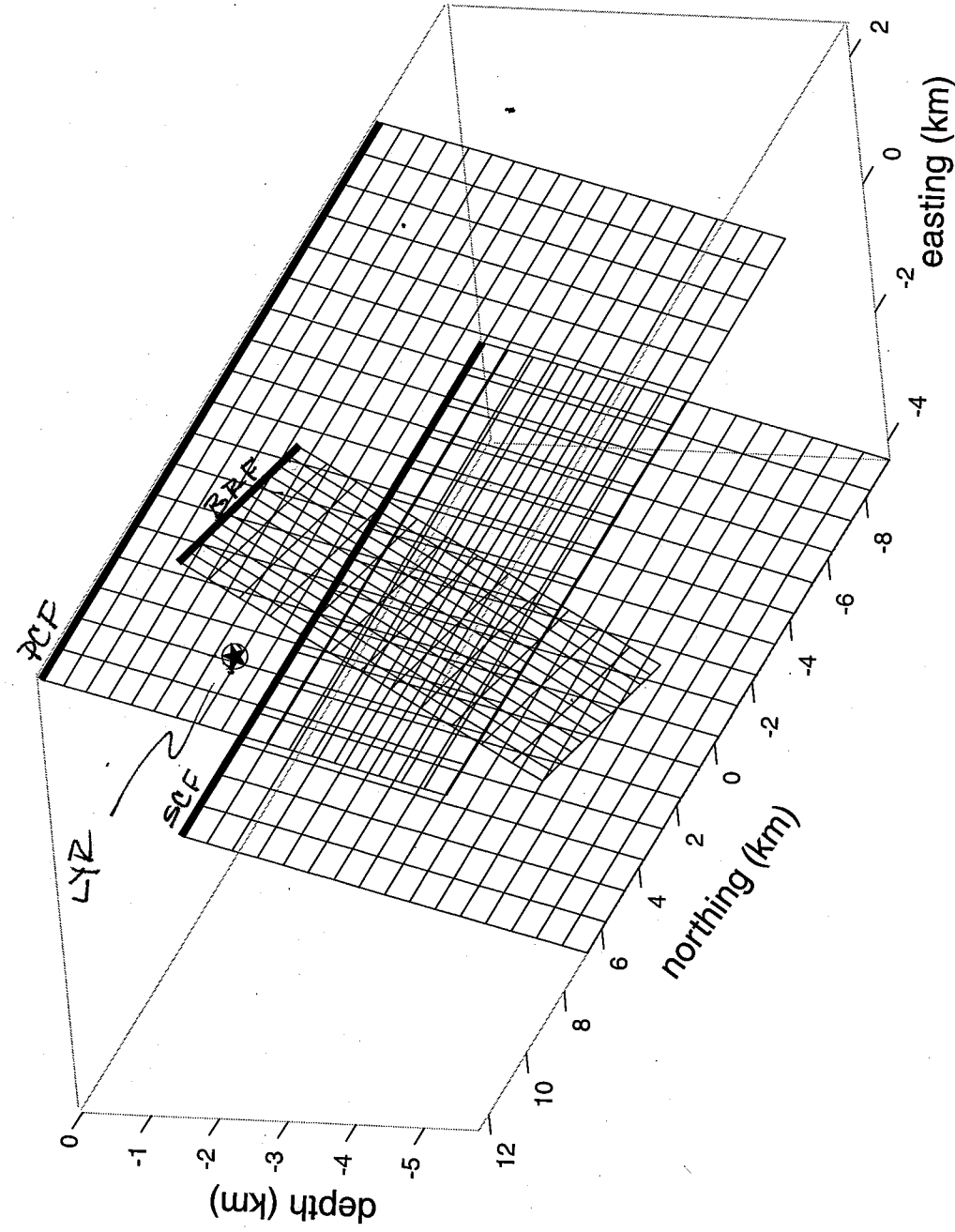


JCE

JCE

JCE

JCE



JCE

PCL = Pantovich Canyon Fault
 SCF = Solitario Canyon Fault
 BRP = Bow Ridge Fault (northern segment)
 LYR = Live Yucca Ridge

JCE 7/17/01

Boundary conditions on the fault elements

3 tractions must be specified on each fault element:

- 1 parallel to strike t_1
- 1 parallel to dip t_2
- 1 normal to the element t_3

Faults are modeled here without friction, so $t_1 = t_2 = 0$

t_3 must have some value to respond appropriately to the lithostatic load.

- fissuring (opening) is not permitted except at very shallow depths
- interpenetration of elements is never permitted.

t_3 is calculated iteratively: a model is run where opening is restricted to be 0, the values generated for t_3 are used in the new model - except at depths where $p_g > T$.

This method was formulated for the study published in Crider & Pollard, 1998.

Crider, J.G. & D.D. Pollard, 1998. "Fault Linkage: Three dimensional mechanical interaction between coherent normal faults" *Journal of Geophysical Research*, v. 103, p. 24373-24391.

Information potentially subject to copyright protection was redacted from this location. The redacted material (Fig. 6: Two-dimensional representation of the boundary conditions used to model faults.....) is from the Crider and Pollard reference listed at the bottom of p. 64 of this scientific notebook.

Same initial results

Date: Mon, 10 Jan 2000 13:13:35 -0500 (EST)
 From: Crider Juliet <jcrider@brynmawr.edu>
 To: Bill Dunne <wdunne@utk.edu>
 Cc: David Ferrill <dferrill@swri.edu>
 Subject: success!

Bill, David --

I am happy to report successful runs for modeling stress trajectories around Live Yucca Ridge.

You can have a look at the output at:
<http://www.brynmawr.edu/Acads/Geo/crider/temp/fordf/>

There are two sets of output: "two_faults..." models only the Solitario and Paintbrush Canyon faults; "three_faults..." models SCF, PCF and the northern segment of the Bow Ridge faults.

For each trial I have reproduced three views of the data: "...regional" gives the big picture; "...zoom" and "...zoom2" show the details near Live Yucca and the ESF.

KEY:

Cyan (bright blue) lines show the traces of the three faults. Solid indicates the faults were used in the model, dashed -- they were not.

Dark blue dashed line is the ESF.

Blue star is the Live Yucca pavement.

Black tics show the direction of sigma3 (max. tensile principal stress).

Magenta tics show the direction of sigma1 (max compressive principal stress). Where the magenta tics disappear or where they appear to be not perpendicular to the sigma3, sig1 is rotating out of the plane of view.

Dotted grid lines in the "...zoom*" figures are the UTM grid (1 km spacing).

North is to the top of the screen.

MODEL CONFIGURATION:

I used planar faults with rectangular tip lines (the semiellipses were not producing reliable results). All dip 60-deg west and extend down to a depth of 6 km. Strike and trace length are as shown.

Fault mesh elements are no greater than 500 m diameter, mostly smaller. Stress trajectories very near to the faults should be ignored due to element-boundary perturbations.

The model is driven by a remote, uniaxial, E-W tension of -10 MPa. Thus, in the results, sig1 and sig2 are both zero at the remote boundaries -- and they are very close in value everywhere (thus the flip-flopping of sig1 and sig2 evident from the "disappearance" of the sig1 tic marks in the regional views.) Lithostatic load has not yet been accounted for -- its principal effect will be to force sig1 vertical everywhere -- but at shallow depths it will remain small relative to sig3 and comparable to sig2 for the uniaxial case.

Output is given for a horizontal plane at a depth of 100 m.

FIRST PASS ANALYSIS:

There is not a great difference in the Live Yucca region between the two- and three-fault models -- perhaps somewhat greater rotation of the principal stresses for the three-fault models. The results predict NE-striking vertical joints (Hooray!) at an azimuth somewhat less than 045. These predicted orientations fan around through N to NW-striking at the SW corner of the ESF. (This more southerly region would be influenced by an active southern segment of the Bow Ridge, not modeled in these trials).

NEXT?

Now that these things are running, we can tweak them as much as you'd like. We can play with the remote boundary conditions (adding a N-S regional sigma1 will probably suppress the local stress rotations near Live Yucca); the rock properties (these models were run with a shear modulus of 30 GPa -- pretty stiff -- reducing this number may increase local stress rotations); or the fault orientations (increasing the strike azimuth of the Bow Ridge segment will increase the left-lateral slip component on this fault and probably influence local stress orientations.)

Each trial runs about 4-5 hours.

cheers,

-- Juliet

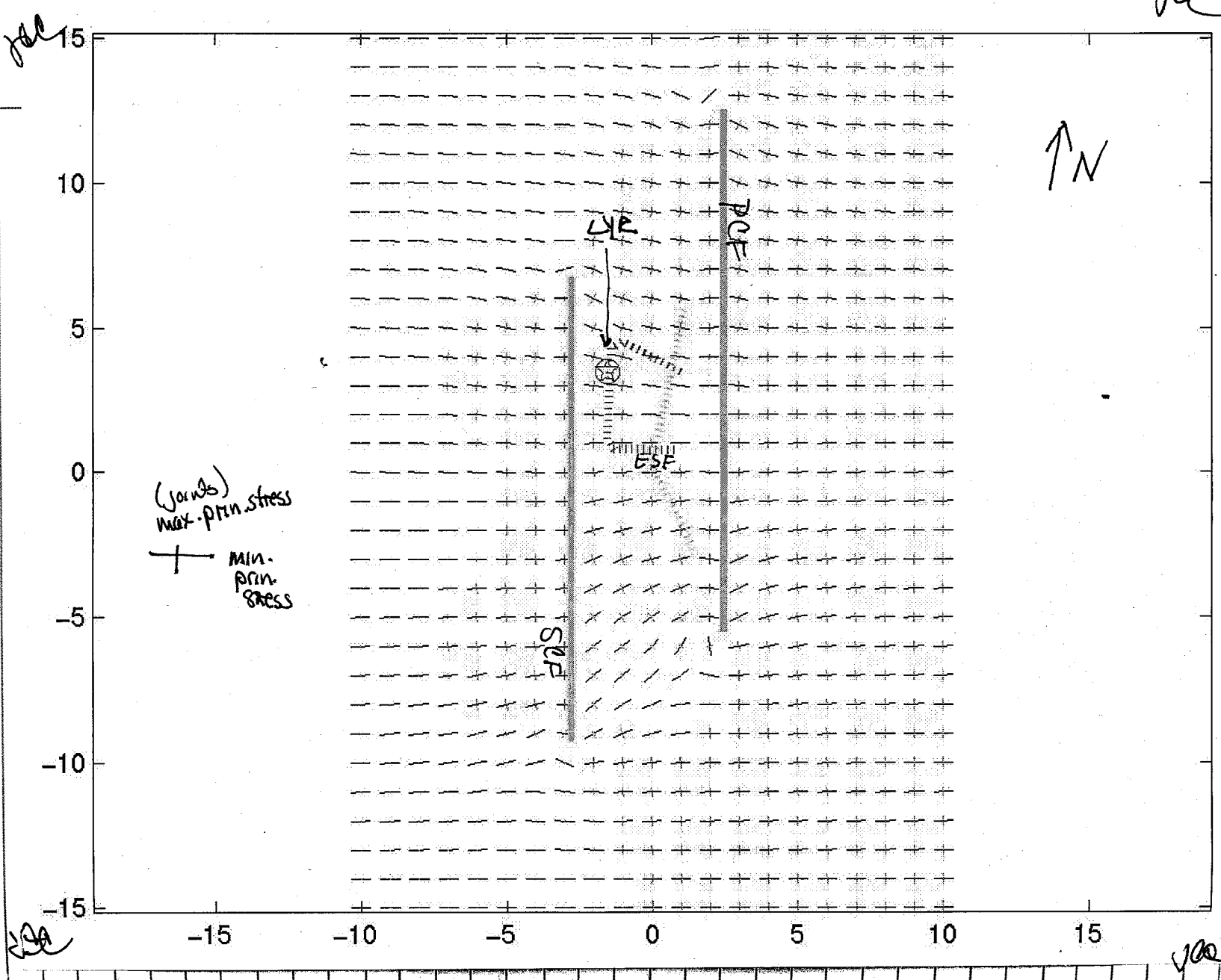
.....
 Juliet G. Crider
 Assistant Professor

Department of Geology ph: 610/526-5113
 Bryn Mawr College fax: 610/526-5086
 101 North Merion Avenue e-m: jcrider@brynmawr.edu
 Bryn Mawr, PA 19010-2899 web: www.brynmawr.edu/Acads/Geo/crider

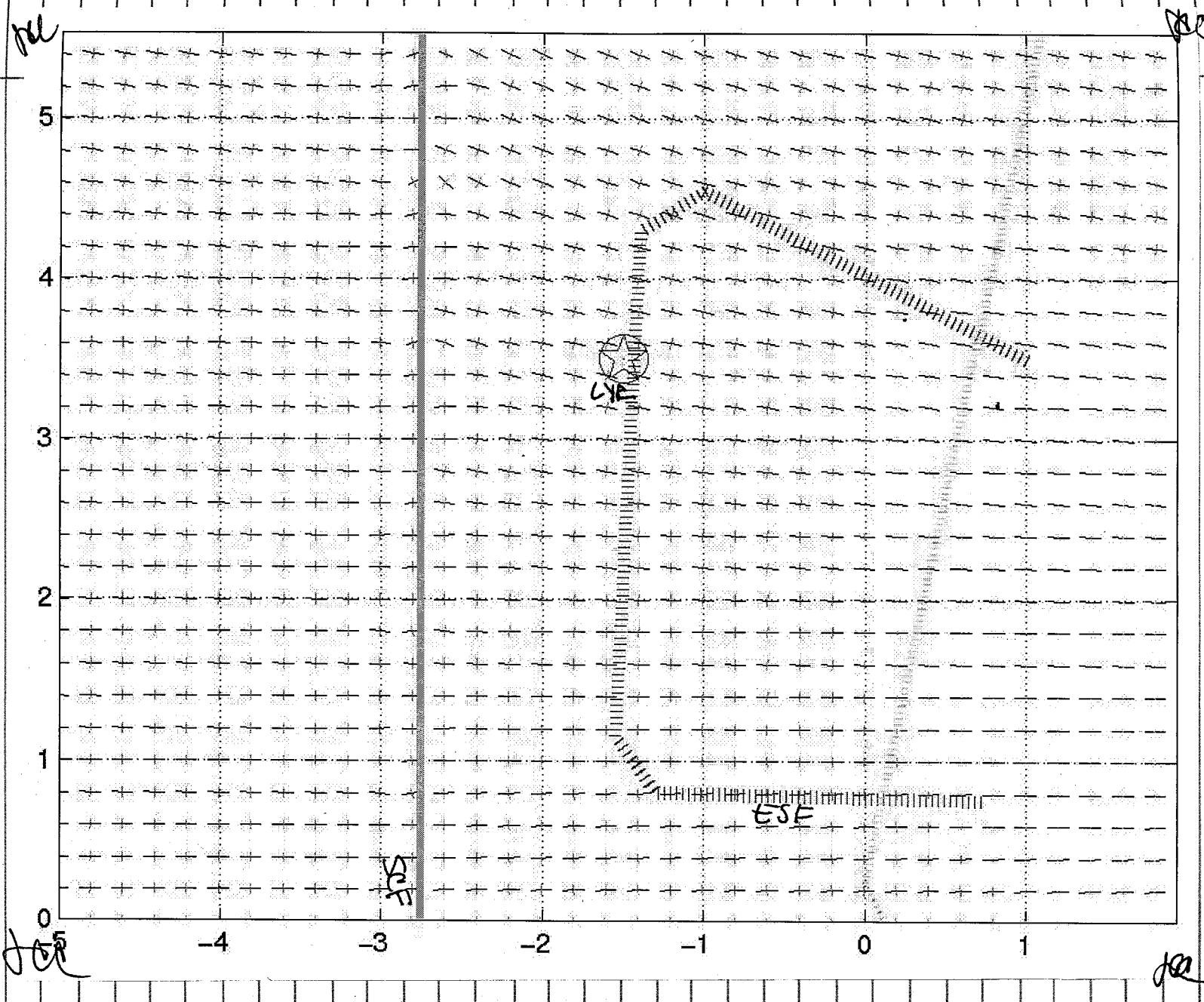
7/17/00

Joe

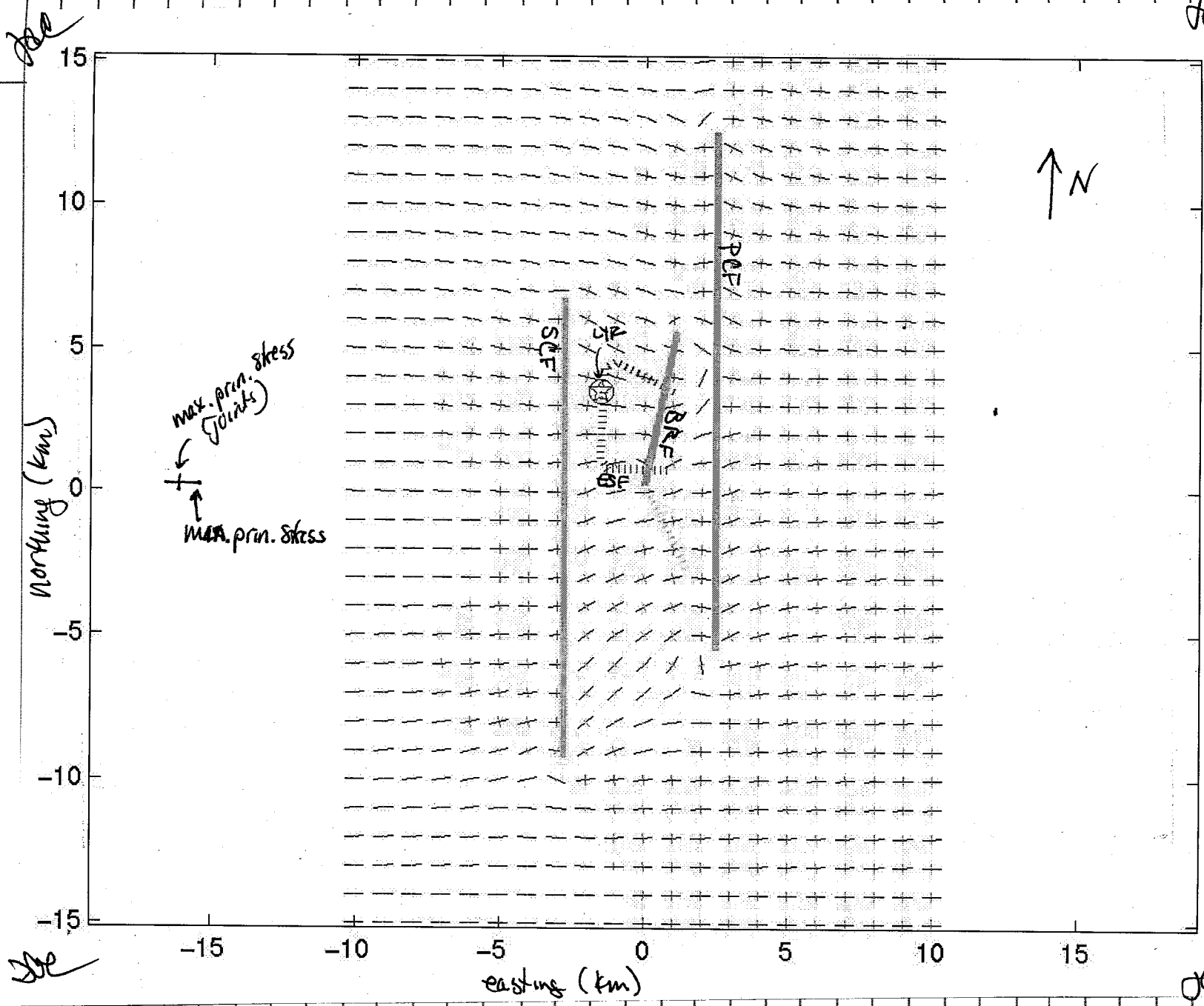
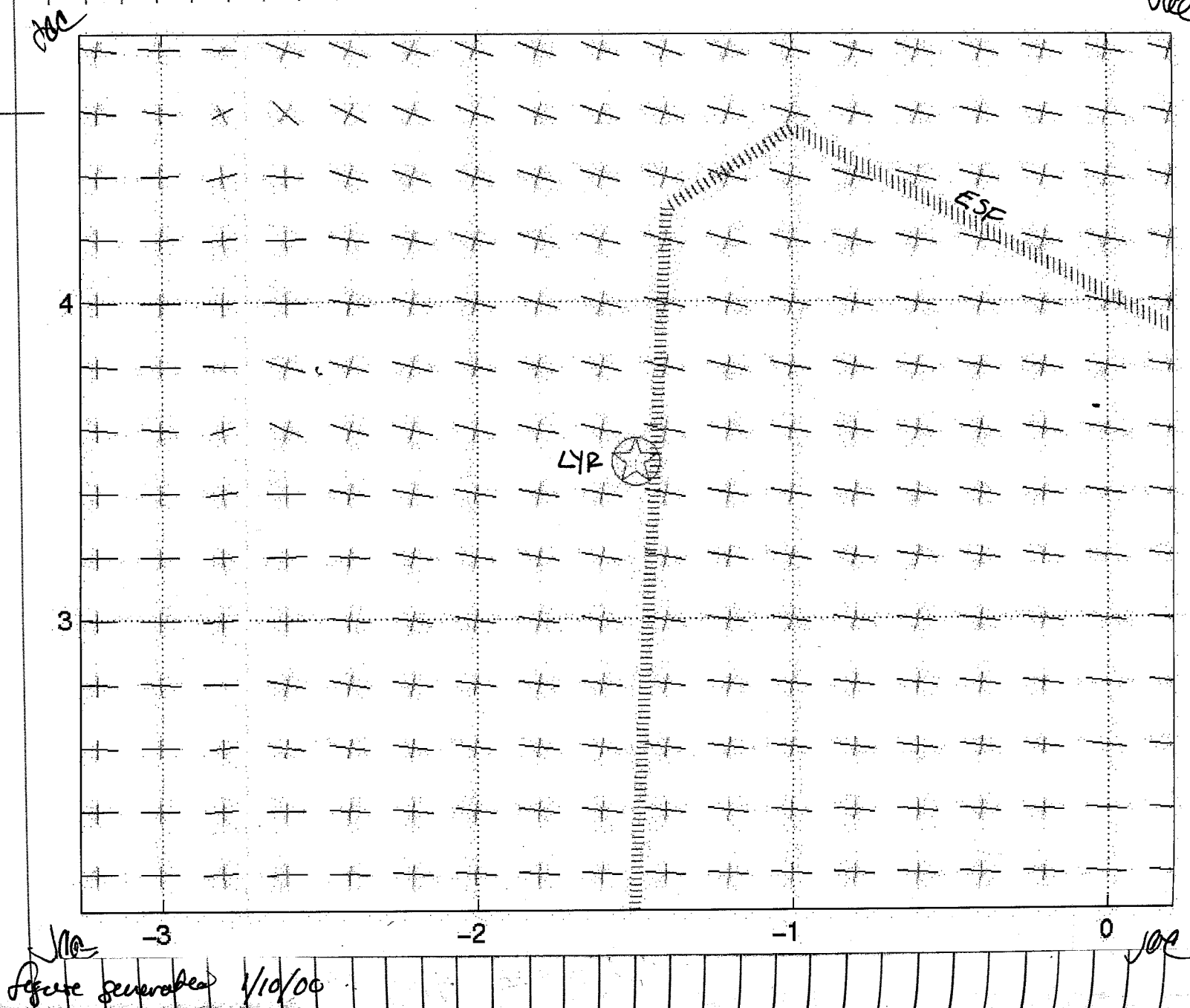
two faults - regional. jpg



two faults zoom.jpg



Joe



Three faults zoom

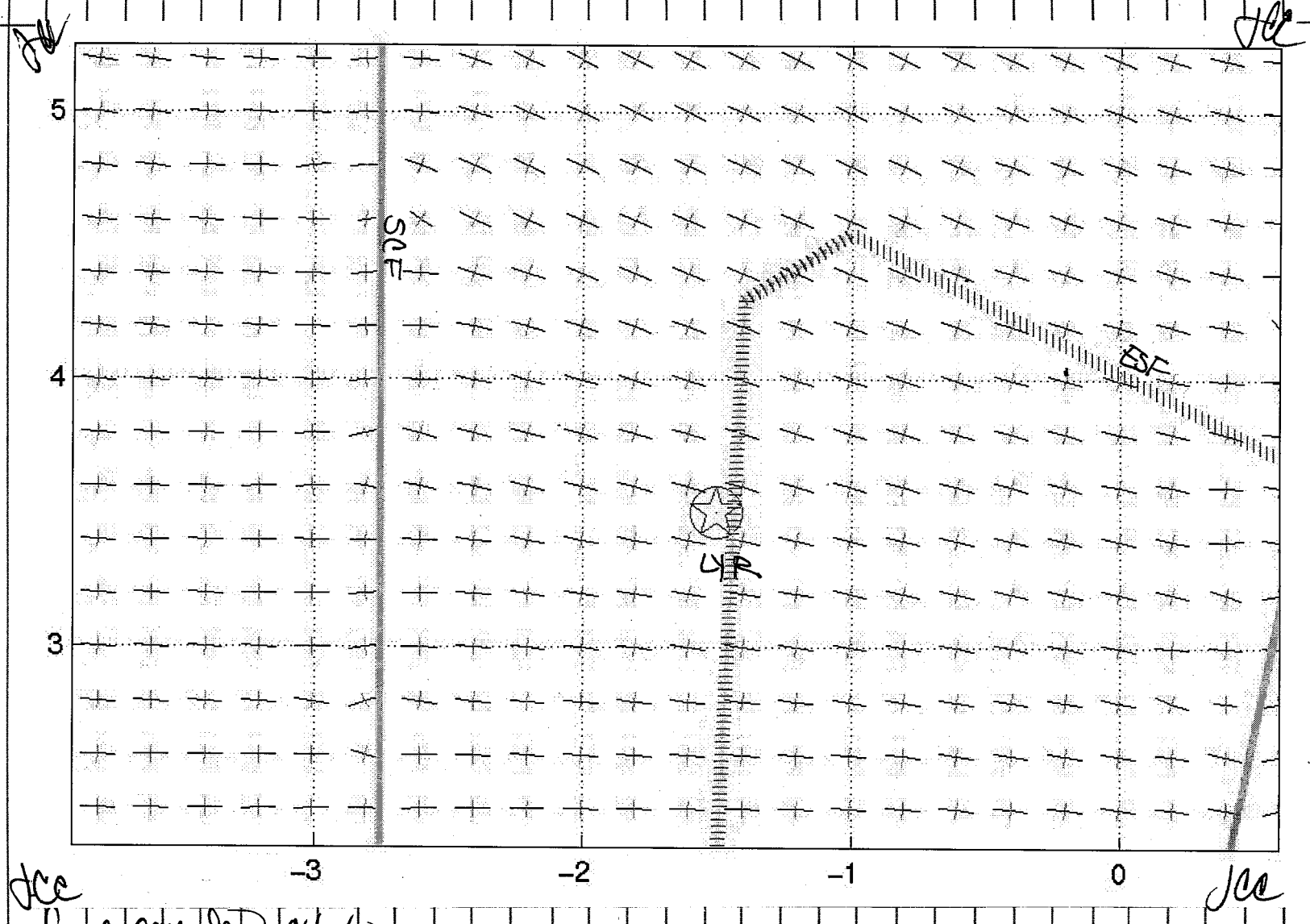
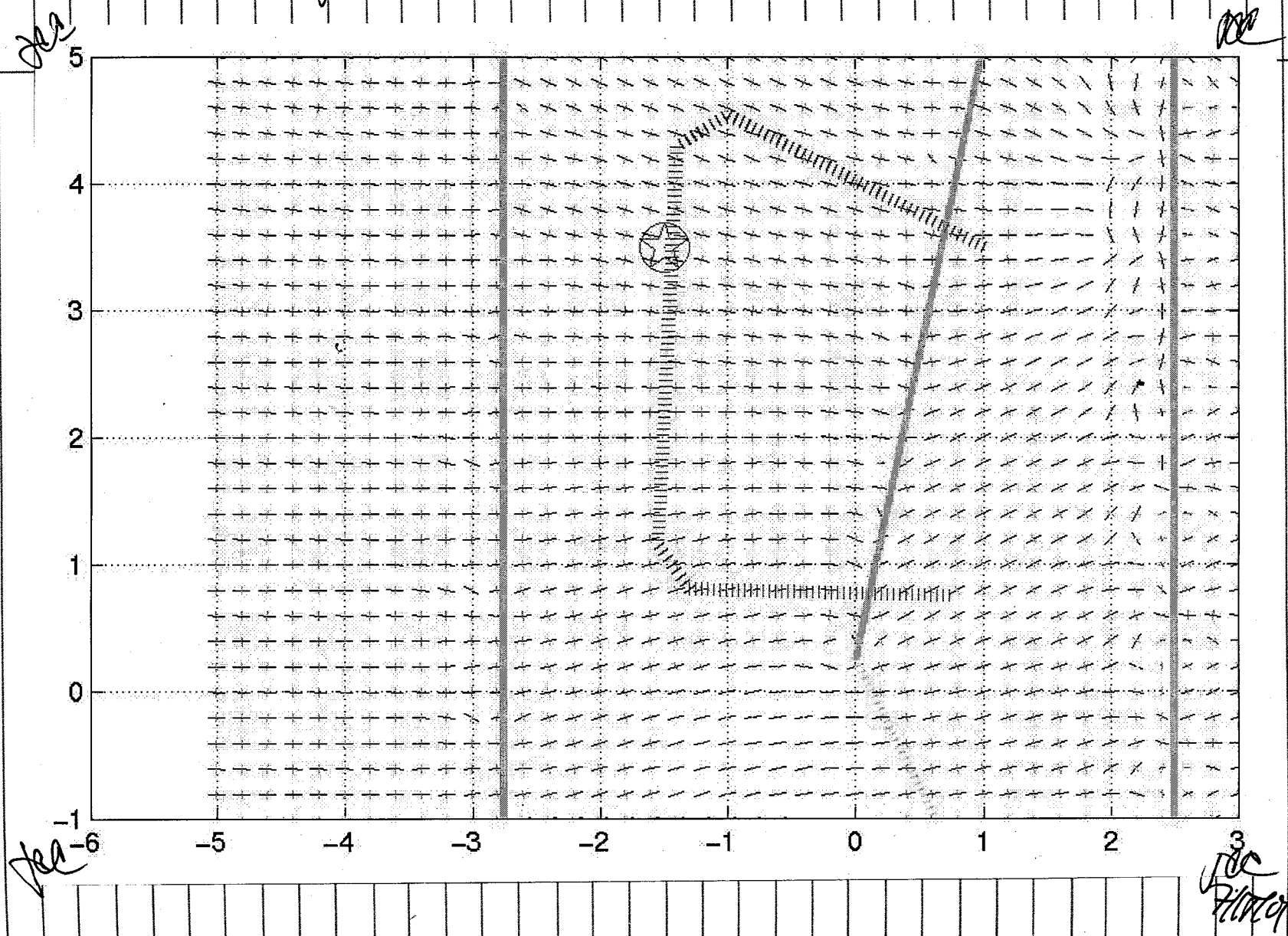


figure generated 01/10/00

Date: Wed, 19 Jan 2000 17:10:49 -0500
 From: Bill Dunne <wdunne@utk.edu>
 To: Crider Juliet <jcrider@brynmawr.edu>, dferrill@swri.edu
 Cc: wdunne@utk.edu
 Subject: a few things

Greetings Juliet (and David),

I am still waiting to hear from David about fault dips (he is still covered by a report to JNOC that was due last Friday). But a few of questions:

What is the maximum magnitude for the displacement distribution that you are using?

A dumb question (I should know the answer): in the 2 and 3 fault models, are all faults moving simultaneously, one, none, or.....?

Another dumb question: what is the time duration of the stress field perturbation by fault motion?

What is a reasonable shear modulus for a "normal" weaker material (the welded tuffs typically undergo a 30 to 50% volume loss during degassing, so they have much gas to give although it was not all in existence simultaneously)? I don't think that these rocks are "abnormally" weak, so a really low number is probably not reasonable.

Britt and David are working on an alternative explanation where differential compaction in 10's of meters across the fall on a horizontal scale of km's to 10's of km that may have produced a horizontal stretching. Depocenter is apparently to NW at some unspecified distance. When I have more idea of the geometry and differential amount of compaction, I can get a better handle on the model.

I have a simple Adobe illustrator file which combined part of the new_traces.jpg and the cooling joint trend data from Fig. 11 of Throckmorton & Verbeek. It is posted on a deadend URL at geoweb.gg.utk.edu/dunne/newtraces.ai for download and is a 4+MB file. David, we will need a version of this figure for the paper with the position and trends of the traces accurately registered onto your base map figure.

Anyway, some science from the comparison of traces, Juliet's modelling results, and Connie & Earl's joint trend data:

- 1) Reasonable correlation between joint trends and stress field at north end of Bow Ridge and Solitario.
- 2) A nice correlation at Fran Ridge (which for the real Paintbrush Canyon fault is in the FW) of real and predicted trends. Look out for the curved fault in the reality!
- 3) A lack of data between Bow Ridge and Paintbrush Canyon for differentiating the 2-fault from 3-fault results.

4) A lack of data to the south of the Bow Ridge (between Solitario & Paintbrush Canyon) for showing the mirror symmetry in joint trends in that region (beyond data collection region for site characterization - David, if we ever get the chance, that would be worth one or two days of fieldwork, if nothing else for our own peace of mind). These data would probably be the best tool for differentiating between a differential compaction and fault-driven control of horizontal stress directions.

5) Problematic data points

- most NE data point;
- bisecting the ESF EW, we do not have NS trending primary joints with EW subsidiaries

bill

bill

William M. Dunne
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 fax: 865-974-2368
 email: wdunne@utk.edu
 departmental webpage: geoweb.gg.utk.edu

Date: Tue, 25 Jan 2000 19:48:52 -0600
 From: David Ferrill <dferrill@swri.edu>
 To: jcrider@brynmawr.edu
 Cc: wdunne@utk.edu
 Subject: Modeling etc...

[The following text is in the "ISO-8859-1" character set.]
 [Your display is set for the "US-ASCII" character set.]
 [Some characters may be displayed incorrectly.]

Dear Juliet,

I hope that your New Year is off to a good start!

Here are the dips that I recommend using for the three faults:

Solitario Canyon fault = 75
 Bow Ridge = 60
 Paintbrush Canyon = 75

[...text omitted...]

I also have some technical questions about the modeling and have not seen your responses to Bill's queries from last (?) week.

I look forward to talking with you soon.

Adios,

David

+++++
 David A. Ferrill
 CNWRA - Southwest Research Institute
 6220 Culebra Rd.
 San Antonio, Texas 78238-5166
 Tel: 210 522-6082
 Fax: 210 522-5155
 e-mail: dferrill@swri.edu
 +++++

Date: Fri, 28 Jan 2000 14:03:40 -0500 (EST)
 From: Crider Juliet <jcrider@brynmawr.edu>
 To: Bill Dunne <wdunne@utk.edu>
 Cc: dferrill@swri.edu, bhill@swri.edu
 Subject: the modeler's view

Bill, David, Britt --

> What is the maximum magnitude for the displacement distribution that you
 > are using?

The fault slip is controlled by the tectonic loads, fault geometry, material property and a bit by fault interaction. For the first set of trials, max. dip slip for SCF was modeled at a little over 1 m.

> in the 2 and 3 fault models,
 > are all faults moving simultaneously, one, none, or.....?

The model calculates simultaneous faulting of the two or more faults. Because these are linear-elastic solution, this is the same as superposing the effects slip on each fault individually. This is equivalent to a cluster of small normal-faulting earthquakes -- common (at least in the northern Basin & Range...)

> what is the time duration of the stress field
 > perturbation by fault motion?

The stress field will remain perturbed until there is inelastic deformation to dissipate the stresses. (This includes jointing!) In practice, there must be a host of microcracking or plastic deformation that accompanies fault slip to help dissipate this perturbation very quickly after the slip event. However: Recent stress transfer (or "stress-triggering") studies show that seismicity rates can be influenced for years to decades after a good-sized earthquake (our data set does not yet extend to "centuries") -- and these rates-changes correspond to regions of stress perturbation predicted by linear-elastic models.

> What is a reasonable shear modulus for a "normal" weaker material
 > I don't think that these rocks are "abnormally" weak, so
 > a really low number is probably not reasonable.

Fractured rock might have moduli an order of magnitude lower than measured for intact material -- I don't have info about unconsolidated or highly vassiculated rock -- presumably this is buried somewhere in the rock mechanics literature (and not found in my library!) -- but we can test a couple of values to see what the effects are.

The vertical expansion shown in hand specimen suggests to me that lithostatic load is not going to play a role at all in the shallow formation of these joints. Since this extension in a direction parallel to vertical joints -- and since in the half-space model, there's nothing preventing upward expansion, vertical expansion is not incompatible with the modeling. (Not directly represented in the model, either, though).

Joints and fractures don't discriminate, and will grow in response to whatever local stresses are present -- the myriad of factors that we are all trying to sort out. The large "cooling" joints DO have striking regularity -- and there are many examples in the literature illustrating preferred orientation of such fractures in a regional stress field. Sheridan's (1970) cooling joints are not completely random -- and are growing in a region with a high tectonic strain rate. Rehrig & Heidrick (1972, 1976) and Heidrick & Titley (1982) show systematically oriented cooling joints in plutons. (See also fig. 5.71 in Davis & Reynolds textbook.) The classic paper on the mechanics of "thermal contraction cracks" is Lachenbruch (1962, GSA Special Paper 70) -- but he works in an isotropic regional stress field.

Finally, keep the modeling in perspective: you will never have a model that can reproduce all the complexities of the natural world at the ESF -- Simpler models are very useful for answering questions like "Is it possible that...?" and "Is this a reasonable interpretation?"

New results forthcoming.

cheers,

-- Juliet

.....
Juliet G. Crider
Assistant Professor

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.....

MATLAB scripts to view Poly3D output

% trajectoryplot.m
%Creates a 2-D plot of the directions of max and min
%principal stress.

%To use, create a file called "formatlab"
%containing only the output from the PRINCIPAL STRESS
%section of the Poly3d output file.
%Strip all text and column headers.
%Place file in same directory as this script.

```
load formatlab;
whos
A=formatlab;
x=A(:,1);
y=A(:,2);
s1n1=A(:,4);
s1n2=A(:,5);
s1=A(:,7);
s3n1=A(:,12);
s3n2=A(:,13);
s3=A(:,15);
s1n1n = s1n1*-1;
s1n2n = s1n2*-1;
```

```
s3n1n = s3n1*-1;
s3n2n = s3n2*-1;
```

```
quiver(x,y,s1n1,s1n2,0.25,'k.')
axis equal
hold on
quiver(x,y,s1n1n,s1n2n,0.25,'k.')
quiver(x,y,s3n1,s3n2,0.125,'m.')
quiver(x,y,s3n1n,s3n2n,0.125,'m.')
hold off
```



```
%yucca mountain features
%plots key features near Yucca Mt.
```

```
hold on
axis equal
```

```
%live yucca ridge
east = -1.5;
north = 3.5;
plot(east, north, 'bo', east, north, 'MarkerSize', 10);
plot(east, north, 'bpentagram', 'MarkerSize', 10);
```

```
% esf
clear east;
clear north;
east = [1; -1; -1.4; -1.55; -1.3; 0.75];
north = [3.5; 4.55; 4.3; 1.15; 0.8; 0.75];
plot(east, north, 'b-', 'LineWidth', 3);
```

```
%solitario model trace
clear east;
clear north;
east = [-2.75; -2.75];
north = [-9.25; 6.75];
plot(east, north, 'c-', 'LineWidth', 3);
```

```
%paintbrush canyon model trace
clear east;
clear north;
east = [2.5; 2.5];
north = [-5.5; 12.5];
plot(east, north, 'c-', 'LineWidth', 3);
```

```
%bow ridge model trace
clear east;
clear north;
east = [1.1; 0; 1.5];
north = [5.6; 0.25; -2.75];
plot(east(1:2), north(1:2), 'c-', 'LineWidth', 3);
plot(east(2:3), north(2:3), 'c:', 'LineWidth', 3);
```

```
%mesh plotter
%plots fault geometry from poly3d output
%PATIENCE! TAKES FOREVER.
%put mesh in separate text files
%format is:
%elt_number vertex_number x_coord y_coord z_coord
```

```
load faultgeom.txt;
A = faultgeom;
```

```
Z = size(A);
elt = 1;
count = 1;
```

```
while count <= Z(1)
    while A(count) ~= elt+1
        B(count,:) = A(count,:);
        count = count+1;
    end;
    C = B(:,1);
    D = B(find(C,:),:);
    plot3(D(:,3), D(:,4), D(:,5), 'b-')
    axis equal
    clear B
    elt = elt+1;
end;
C = B(:,1);
D = B(find(C,:),:);
plot3(D(:,3), D(:,4), D(:,5), 'b-')
hold on
```

```
%trying to label vertices
n=Z(1);
for i=1:n
    text(A(i,3), A(i,4), A(i,5), num2str(A(i,2)));
```

Date: Mon, 14 Aug 2000 17:15:14 -0400 (EDT)
From: Crider Juliet <jcrider@brynmawr.edu>
To: David Ferrill <dferrill@swri.edu>, wdunne@utk.edu
Subject: yucca modeling

Bill, David --

Some great leaps forward this last week or so...

So as not to overwhelm your inboxes, I have put a bunch of documents on our web server, accessible at
<http://www.brynmawr.edu/Acads/Geo/crider/orthogonaljoints/>

First, some great mechanical insight about the formation of orthogonal joints comes from my friend Taixu Bai and others at Stanford (+ Mike Gross). They have a manuscript in review at JSG, and Taixu gave me permission to pass it along to you. (Orthogonal_Cross_Joints.pdf) They show "swapping" as a consequence of close joint spacing in layered sediments. I think this is what Bill was getting at, too --but here's the modeling to show it works. Give this a good read. Taixu also has a Nature paper out about lower-limits to joint spacing.

[...text omitted...]

I've had a go at the Yucca Paper. (YuccaPaperV2_jgc.doc). My changes/additions should appear on your screen in blue. I've moved many of our comments/questions to each other to footnotes, to streamline the text a bit. In addition to inserting the section on modeling, I messed with the introduction, did some rearranging in section 2, played with the discussion a bit, and took a stab at some conclusions, just to see where we might be headed.

New figures include model configuration (fig10.pdf), and results from two different trials. (Captions are at the end of the Yucca m.s.) Fig. 11 was driven by 10 MPa E-W reduction in lithostatic load. Fig. 12 was driven by 10 MPa E-W and 4 MPa N-S reductions in lithostatic load. Please see text for rationale. You'll see that Fig. 12 does a better job reproducing observed orientations at LYR.

I'm off to Berkeley for a couple weeks -- but will have e-mail. Let me know where you'd like to go from here, and I'll see what I can do.

cheers,

-- Juliet

.....
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.....
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.....

[Excerpted from: "Orthogonal jointing during coeval igneous degassing and normal faulting, Yucca Mountain, Nevada", William M. Dunne, David A. Ferrill, Juliet G. Crider, Brittain Hill, Peter La Femina, Deborah Waiting, Alan P. Morris *in preparation*]

Information potentially subject to copyright protection was redacted from pages 83 through 87 of this scientific notebook. The redacted material is from the reference listed above.

Trial 1 input file: 1 of 28

Trial 1 input file: 2 of 28

```
*****
* Section 1:00 CONSTANTS *
*****
* Titles
title1 = "Solitario & paint brush & north segment of bow ridge"
title2 = "rectangular faults, ttt=00x"
*All lengths in km, all stresses & tractions in MPa

* Elastic Constants
* Specify any two. Leave the rest blank.

shear_mod = 30000 *MPa
psn_ratio = 0.25 *unitless (Poisson's ratio)
youngs_mod =
bulk_mod =
lame_lambda =

* Remote Stresses/Strains
rem_bc_type = stress *(stress/strain)
s11r = 10 *MPa, tension positive
s22r = 0
s33r = 0 *(set to zero for half space problems)
s12r = 0
s13r = 0 *(set to zero for half space problems)
s23r = 0 *(set to zero for half space problems)

* Options
half_space = yes *(yes/no)
check_cond_num = yes *(yes/no)
print_elt_geom = yes *(yes/no)
elt_geom_csys = global
null_value = -999

end *(CONSTANTS)
*****

* Section 2:00 USER COORDINATE SYSTEMS *
*****
*fault is meshed in a horizontal plane, then rotated and translated as specified here
* -1 -2 -3 -4 -5 -6 -7 -8 -9
*name parent x1o x2o x3o rot1 rot2 rot3 rot order
-----
scfr_cs global -2.75 -9.25 0 0 -75 -90 321
pcfr_cs global 2.5 -5.5 0 0 -75 -90 321
bfrf_cs global 0 -0.25 0 60 0 -100 123

end *(USER COORDINATE SYSTEMS)
*****

* Section 3:00 OBSERVATION GRIDS *
*****
```

```
*****
-1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14
*name dim outp endpt csys obspt csys outp csys x1beg x2beg x3beg x1end x2end x3end
nx1 nx2 nx3
-----
*Two different observation planes are specified, both at 100 m depth.
*The grid is offset slightly to avoid the singularity at 0,0.
Coarseplane 2 ps global global global -10.01 -15.01 -0.1
10 15 0.1 21 31 1
Fineplane 2 ps global global global -5.01 -5.01 -0.1
5 7 0.1 51 61 1

end *(OBSERVATION GRIDS)

*The remainder of the input file are the fault meshes -- rectangles
*****
* Section 4:00 OBJECTS/ELEMENTS/VERTICES *
* (o = "object," e = "element," v = vertex) *
*****
*(1) -2 -3 -4 -5 -6
*v name csys x1 x2 x3
-----
v 0 scfr_cs -1.60E+01 -5.99E+00 0.00E+00
v 1 scfr_cs -1.50E+01 -5.99E+00 0.00E+00
v 2 scfr_cs -1.40E+01 -5.99E+00 0.00E+00
v 3 scfr_cs -1.30E+01 -5.99E+00 0.00E+00
v 4 scfr_cs -1.20E+01 -5.99E+00 0.00E+00
v 5 scfr_cs -1.10E+01 -5.99E+00 0.00E+00
v 6 scfr_cs -1.00E+01 -5.99E+00 0.00E+00
v 7 scfr_cs -9.00E+00 -5.99E+00 0.00E+00
v 8 scfr_cs -8.00E+00 -5.99E+00 0.00E+00
v 9 scfr_cs -7.00E+00 -5.99E+00 0.00E+00
v 10 scfr_cs -6.00E+00 -5.99E+00 0.00E+00
v 11 scfr_cs -5.00E+00 -5.99E+00 0.00E+00
v 12 scfr_cs -4.00E+00 -5.99E+00 0.00E+00
v 13 scfr_cs -3.00E+00 -5.99E+00 0.00E+00
v 14 scfr_cs -2.00E+00 -5.99E+00 0.00E+00
v 15 scfr_cs -1.00E+00 -5.99E+00 0.00E+00
v 16 scfr_cs 0.00E+00 -5.99E+00 0.00E+00
v 17 scfr_cs -1.60E+01 -5.62E+00 0.00E+00
v 18 scfr_cs -1.50E+01 -5.62E+00 0.00E+00
v 19 scfr_cs -1.40E+01 -5.62E+00 0.00E+00
v 20 scfr_cs -1.30E+01 -5.62E+00 0.00E+00
v 21 scfr_cs -1.20E+01 -5.62E+00 0.00E+00
v 22 scfr_cs -1.10E+01 -5.62E+00 0.00E+00
v 23 scfr_cs -1.00E+01 -5.62E+00 0.00E+00
v 24 scfr_cs -9.00E+00 -5.62E+00 0.00E+00
v 25 scfr_cs -8.00E+00 -5.62E+00 0.00E+00
v 26 scfr_cs -7.00E+00 -5.62E+00 0.00E+00
v 27 scfr_cs -6.00E+00 -5.62E+00 0.00E+00
v 28 scfr_cs -5.00E+00 -5.62E+00 0.00E+00
v 29 scfr_cs -4.00E+00 -5.62E+00 0.00E+00
```

Trial 1 input file: 3 of 28

Trial 1 input file: 4 of 28

```
v 30 scfr_cs -3.00E+00 -5.62E+00 0.00E+00
v 31 scfr_cs -2.00E+00 -5.62E+00 0.00E+00
v 32 scfr_cs -1.00E+00 -5.62E+00 0.00E+00
v 33 scfr_cs 0.00E+00 -5.62E+00 0.00E+00
v 34 scfr_cs -1.60E+01 -5.24E+00 0.00E+00
v 35 scfr_cs -1.50E+01 -5.24E+00 0.00E+00
v 36 scfr_cs -1.40E+01 -5.24E+00 0.00E+00
v 37 scfr_cs -1.30E+01 -5.24E+00 0.00E+00
v 38 scfr_cs -1.20E+01 -5.24E+00 0.00E+00
v 39 scfr_cs -1.10E+01 -5.24E+00 0.00E+00
v 40 scfr_cs -1.00E+01 -5.24E+00 0.00E+00
v 41 scfr_cs -9.00E+00 -5.24E+00 0.00E+00
v 42 scfr_cs -8.00E+00 -5.24E+00 0.00E+00
v 43 scfr_cs -7.00E+00 -5.24E+00 0.00E+00
v 44 scfr_cs -6.00E+00 -5.24E+00 0.00E+00
v 45 scfr_cs -5.00E+00 -5.24E+00 0.00E+00
v 46 scfr_cs -4.00E+00 -5.24E+00 0.00E+00
v 47 scfr_cs -3.00E+00 -5.24E+00 0.00E+00
v 48 scfr_cs -2.00E+00 -5.24E+00 0.00E+00
v 49 scfr_cs -1.00E+00 -5.24E+00 0.00E+00
v 50 scfr_cs 0.00E+00 -5.24E+00 0.00E+00
v 51 scfr_cs -1.60E+01 -4.87E+00 0.00E+00
v 52 scfr_cs -1.50E+01 -4.87E+00 0.00E+00
v 53 scfr_cs -1.40E+01 -4.87E+00 0.00E+00
v 54 scfr_cs -1.30E+01 -4.87E+00 0.00E+00
v 55 scfr_cs -1.20E+01 -4.87E+00 0.00E+00
v 56 scfr_cs -1.10E+01 -4.87E+00 0.00E+00
v 57 scfr_cs -1.00E+01 -4.87E+00 0.00E+00
v 58 scfr_cs -9.00E+00 -4.87E+00 0.00E+00
v 59 scfr_cs -8.00E+00 -4.87E+00 0.00E+00
v 60 scfr_cs -7.00E+00 -4.87E+00 0.00E+00
v 61 scfr_cs -6.00E+00 -4.87E+00 0.00E+00
v 62 scfr_cs -5.00E+00 -4.87E+00 0.00E+00
v 63 scfr_cs -4.00E+00 -4.87E+00 0.00E+00
v 64 scfr_cs -3.00E+00 -4.87E+00 0.00E+00
v 65 scfr_cs -2.00E+00 -4.87E+00 0.00E+00
v 66 scfr_cs -1.00E+00 -4.87E+00 0.00E+00
v 67 scfr_cs 0.00E+00 -4.87E+00 0.00E+00
v 68 scfr_cs -1.60E+01 -4.49E+00 0.00E+00
v 69 scfr_cs -1.50E+01 -4.49E+00 0.00E+00
v 70 scfr_cs -1.40E+01 -4.49E+00 0.00E+00
v 71 scfr_cs -1.30E+01 -4.49E+00 0.00E+00
v 72 scfr_cs -1.20E+01 -4.49E+00 0.00E+00
v 73 scfr_cs -1.10E+01 -4.49E+00 0.00E+00
v 74 scfr_cs -1.00E+01 -4.49E+00 0.00E+00
v 75 scfr_cs -9.00E+00 -4.49E+00 0.00E+00
v 76 scfr_cs -8.00E+00 -4.49E+00 0.00E+00
v 77 scfr_cs -7.00E+00 -4.49E+00 0.00E+00
v 78 scfr_cs -6.00E+00 -4.49E+00 0.00E+00
v 79 scfr_cs -5.00E+00 -4.49E+00 0.00E+00
v 80 scfr_cs -4.00E+00 -4.49E+00 0.00E+00
v 81 scfr_cs -3.00E+00 -4.49E+00 0.00E+00
v 82 scfr_cs -2.00E+00 -4.49E+00 0.00E+00
v 83 scfr_cs -1.00E+00 -4.49E+00 0.00E+00
v 84 scfr_cs 0.00E+00 -4.49E+00 0.00E+00
v 85 scfr_cs -1.60E+01 -4.12E+00 0.00E+00
v 86 scfr_cs -1.50E+01 -4.12E+00 0.00E+00
v 87 scfr_cs -1.40E+01 -4.12E+00 0.00E+00
v 88 scfr_cs -1.30E+01 -4.12E+00 0.00E+00
v 89 scfr_cs -1.20E+01 -4.12E+00 0.00E+00
v 90 scfr_cs -1.10E+01 -4.12E+00 0.00E+00
```

```
v 91 scfr_cs -1.00E+01 -4.12E+00 0.00E+00
v 92 scfr_cs -9.00E+00 -4.12E+00 0.00E+00
v 93 scfr_cs -8.00E+00 -4.12E+00 0.00E+00
v 94 scfr_cs -7.00E+00 -4.12E+00 0.00E+00
v 95 scfr_cs -6.00E+00 -4.12E+00 0.00E+00
v 96 scfr_cs -5.00E+00 -4.12E+00 0.00E+00
v 97 scfr_cs -4.00E+00 -4.12E+00 0.00E+00
v 98 scfr_cs -3.00E+00 -4.12E+00 0.00E+00
v 99 scfr_cs -2.00E+00 -4.12E+00 0.00E+00
v 100 scfr_cs -1.00E+00 -4.12E+00 0.00E+00
v 101 scfr_cs 0.00E+00 -4.12E+00 0.00E+00
v 102 scfr_cs -1.60E+01 -3.75E+00 0.00E+00
v 103 scfr_cs -1.50E+01 -3.75E+00 0.00E+00
v 104 scfr_cs -1.40E+01 -3.75E+00 0.00E+00
v 105 scfr_cs -1.30E+01 -3.75E+00 0.00E+00
v 106 scfr_cs -1.20E+01 -3.75E+00 0.00E+00
v 107 scfr_cs -1.10E+01 -3.75E+00 0.00E+00
v 108 scfr_cs -1.00E+01 -3.75E+00 0.00E+00
v 109 scfr_cs -9.00E+00 -3.75E+00 0.00E+00
v 110 scfr_cs -8.00E+00 -3.75E+00 0.00E+00
v 111 scfr_cs -7.00E+00 -3.75E+00 0.00E+00
v 112 scfr_cs -6.00E+00 -3.75E+00 0.00E+00
v 113 scfr_cs -5.00E+00 -3.75E+00 0.00E+00
v 114 scfr_cs -4.00E+00 -3.75E+00 0.00E+00
v 115 scfr_cs -3.00E+00 -3.75E+00 0.00E+00
v 116 scfr_cs -2.00E+00 -3.75E+00 0.00E+00
v 117 scfr_cs -1.00E+00 -3.75E+00 0.00E+00
v 118 scfr_cs 0.00E+00 -3.75E+00 0.00E+00
v 119 scfr_cs -1.60E+01 -3.37E+00 0.00E+00
v 120 scfr_cs -1.50E+01 -3.37E+00 0.00E+00
v 121 scfr_cs -1.40E+01 -3.37E+00 0.00E+00
v 122 scfr_cs -1.30E+01 -3.37E+00 0.00E+00
v 123 scfr_cs -1.20E+01 -3.37E+00 0.00E+00
v 124 scfr_cs -1.10E+01 -3.37E+00 0.00E+00
v 125 scfr_cs -1.00E+01 -3.37E+00 0.00E+00
v 126 scfr_cs -9.00E+00 -3.37E+00 0.00E+00
v 127 scfr_cs -8.00E+00 -3.37E+00 0.00E+00
v 128 scfr_cs -7.00E+00 -3.37E+00 0.00E+00
v 129 scfr_cs -6.00E+00 -3.37E+00 0.00E+00
v 130 scfr_cs -5.00E+00 -3.37E+00 0.00E+00
v 131 scfr_cs -4.00E+00 -3.37E+00 0.00E+00
v 132 scfr_cs -3.00E+00 -3.37E+00 0.00E+00
v 133 scfr_cs -2.00E+00 -3.37E+00 0.00E+00
v 134 scfr_cs -1.00E+00 -3.37E+00 0.00E+00
v 135 scfr_cs 0.00E+00 -3.37E+00 0.00E+00
v 136 scfr_cs -1.60E+01 -3.00E+00 0.00E+00
v 137 scfr_cs -1.50E+01 -3.00E+00 0.00E+00
v 138 scfr_cs -1.40E+01 -3.00E+00 0.00E+00
v 139 scfr_cs -1.30E+01 -3.00E+00 0.00E+00
v 140 scfr_cs -1.20E+01 -3.00E+00 0.00E+00
v 141 scfr_cs -1.10E+01 -3.00E+00 0.00E+00
v 142 scfr_cs -1.00E+01 -3.00E+00 0.00E+00
v 143 scfr_cs -9.00E+00 -3.00E+00 0.00E+00
v 144 scfr_cs -8.00E+00 -3.00E+00 0.00E+00
v 145 scfr_cs -7.00E+00 -3.00E+00 0.00E+00
v 146 scfr_cs -6.00E+00 -3.00E+00 0.00E+00
v 147 scfr_cs -5.00E+00 -3.00E+00 0.00E+00
v 148 scfr_cs -4.00E+00 -3.00E+00 0.00E+00
v 149 scfr_cs -3.00E+00 -3.00E+00 0.00E+00
v 150 scfr_cs -2.00E+00 -3.00E+00 0.00E+00
v 151 scfr_cs -1.00E+00 -3.00E+00 0.00E+00
```

Trial 1 input file: 5 of 28

Trial 1 input file: 6 of 28

v 152 scfr_cs 0.00E+00 -3.00E+00 0.00E+00
v 153 scfr_cs -1.60E+01 -2.62E+00 0.00E+00
v 154 scfr_cs -1.50E+01 -2.62E+00 0.00E+00
v 155 scfr_cs -1.40E+01 -2.62E+00 0.00E+00
v 156 scfr_cs -1.30E+01 -2.62E+00 0.00E+00
v 157 scfr_cs -1.20E+01 -2.62E+00 0.00E+00
v 158 scfr_cs -1.10E+01 -2.62E+00 0.00E+00
v 159 scfr_cs -1.00E+01 -2.62E+00 0.00E+00
v 160 scfr_cs -9.00E+00 -2.62E+00 0.00E+00
v 161 scfr_cs -8.00E+00 -2.62E+00 0.00E+00
v 162 scfr_cs -7.00E+00 -2.62E+00 0.00E+00
v 163 scfr_cs -6.00E+00 -2.62E+00 0.00E+00
v 164 scfr_cs -5.00E+00 -2.62E+00 0.00E+00
v 165 scfr_cs -4.00E+00 -2.62E+00 0.00E+00
v 166 scfr_cs -3.00E+00 -2.62E+00 0.00E+00
v 167 scfr_cs -2.00E+00 -2.62E+00 0.00E+00
v 168 scfr_cs -1.00E+00 -2.62E+00 0.00E+00
v 169 scfr_cs 0.00E+00 -2.25E+00 0.00E+00
v 170 scfr_cs -1.60E+01 -2.25E+00 0.00E+00
v 171 scfr_cs -1.50E+01 -2.25E+00 0.00E+00
v 172 scfr_cs -1.40E+01 -2.25E+00 0.00E+00
v 173 scfr_cs -1.30E+01 -2.25E+00 0.00E+00
v 174 scfr_cs -1.20E+01 -2.25E+00 0.00E+00
v 175 scfr_cs -1.10E+01 -2.25E+00 0.00E+00
v 176 scfr_cs -1.00E+01 -2.25E+00 0.00E+00
v 177 scfr_cs -9.00E+00 -2.25E+00 0.00E+00
v 178 scfr_cs -8.00E+00 -2.25E+00 0.00E+00
v 179 scfr_cs -7.00E+00 -2.25E+00 0.00E+00
v 180 scfr_cs -6.00E+00 -2.25E+00 0.00E+00
v 181 scfr_cs -5.00E+00 -2.25E+00 0.00E+00
v 182 scfr_cs -4.00E+00 -2.25E+00 0.00E+00
v 183 scfr_cs -3.00E+00 -2.25E+00 0.00E+00
v 184 scfr_cs -2.00E+00 -2.25E+00 0.00E+00
v 185 scfr_cs -1.00E+00 -2.25E+00 0.00E+00
v 186 scfr_cs 0.00E+00 -2.25E+00 0.00E+00
v 187 scfr_cs -1.60E+01 -1.87E+00 0.00E+00
v 188 scfr_cs -1.50E+01 -1.87E+00 0.00E+00
v 189 scfr_cs -1.40E+01 -1.87E+00 0.00E+00
v 190 scfr_cs -1.30E+01 -1.87E+00 0.00E+00
v 191 scfr_cs -1.20E+01 -1.87E+00 0.00E+00
v 192 scfr_cs -1.10E+01 -1.87E+00 0.00E+00
v 193 scfr_cs -1.00E+01 -1.87E+00 0.00E+00
v 194 scfr_cs -9.00E+00 -1.87E+00 0.00E+00
v 195 scfr_cs -8.00E+00 -1.87E+00 0.00E+00
v 196 scfr_cs -7.00E+00 -1.87E+00 0.00E+00
v 197 scfr_cs -6.00E+00 -1.87E+00 0.00E+00
v 198 scfr_cs -5.00E+00 -1.87E+00 0.00E+00
v 199 scfr_cs -4.00E+00 -1.87E+00 0.00E+00
v 200 scfr_cs -3.00E+00 -1.87E+00 0.00E+00
v 201 scfr_cs -2.00E+00 -1.87E+00 0.00E+00
v 202 scfr_cs -1.00E+00 -1.87E+00 0.00E+00
v 203 scfr_cs 0.00E+00 -1.87E+00 0.00E+00
v 204 scfr_cs -1.60E+01 -1.50E+00 0.00E+00
v 205 scfr_cs -1.50E+01 -1.50E+00 0.00E+00
v 206 scfr_cs -1.40E+01 -1.50E+00 0.00E+00
v 207 scfr_cs -1.30E+01 -1.50E+00 0.00E+00
v 208 scfr_cs -1.20E+01 -1.50E+00 0.00E+00
v 209 scfr_cs -1.10E+01 -1.50E+00 0.00E+00
v 210 scfr_cs -1.00E+01 -1.50E+00 0.00E+00
v 211 scfr_cs -9.00E+00 -1.50E+00 0.00E+00
v 212 scfr_cs -8.00E+00 -1.50E+00 0.00E+00

v 213 scfr_cs -7.00E+00 -1.50E+00 0.00E+00
v 214 scfr_cs -6.00E+00 -1.50E+00 0.00E+00
v 215 scfr_cs -5.00E+00 -1.50E+00 0.00E+00
v 216 scfr_cs -4.00E+00 -1.50E+00 0.00E+00
v 217 scfr_cs -3.00E+00 -1.50E+00 0.00E+00
v 218 scfr_cs -2.00E+00 -1.50E+00 0.00E+00
v 219 scfr_cs -1.00E+00 -1.50E+00 0.00E+00
v 220 scfr_cs 0.00E+00 -1.50E+00 0.00E+00
v 221 scfr_cs -1.60E+01 -1.12E+00 0.00E+00
v 222 scfr_cs -1.50E+01 -1.12E+00 0.00E+00
v 223 scfr_cs -1.40E+01 -1.12E+00 0.00E+00
v 224 scfr_cs -1.30E+01 -1.12E+00 0.00E+00
v 225 scfr_cs -1.20E+01 -1.12E+00 0.00E+00
v 226 scfr_cs -1.10E+01 -1.12E+00 0.00E+00
v 227 scfr_cs -1.00E+01 -1.12E+00 0.00E+00
v 228 scfr_cs -9.00E+00 -1.12E+00 0.00E+00
v 229 scfr_cs -8.00E+00 -1.12E+00 0.00E+00
v 230 scfr_cs -7.00E+00 -1.12E+00 0.00E+00
v 231 scfr_cs -6.00E+00 -1.12E+00 0.00E+00
v 232 scfr_cs -5.00E+00 -1.12E+00 0.00E+00
v 233 scfr_cs -4.00E+00 -1.12E+00 0.00E+00
v 234 scfr_cs -3.00E+00 -1.12E+00 0.00E+00
v 235 scfr_cs -2.00E+00 -1.12E+00 0.00E+00
v 236 scfr_cs -1.00E+00 -1.12E+00 0.00E+00
v 237 scfr_cs 0.00E+00 -1.12E+00 0.00E+00
v 238 scfr_cs -1.60E+01 -7.49E-01 0.00E+00
v 239 scfr_cs -1.50E+01 -7.49E-01 0.00E+00
v 240 scfr_cs -1.40E+01 -7.49E-01 0.00E+00
v 241 scfr_cs -1.30E+01 -7.49E-01 0.00E+00
v 242 scfr_cs -1.20E+01 -7.49E-01 0.00E+00
v 243 scfr_cs -1.10E+01 -7.49E-01 0.00E+00
v 244 scfr_cs -1.00E+01 -7.49E-01 0.00E+00
v 245 scfr_cs -9.00E+00 -7.49E-01 0.00E+00
v 246 scfr_cs -8.00E+00 -7.49E-01 0.00E+00
v 247 scfr_cs -7.00E+00 -7.49E-01 0.00E+00
v 248 scfr_cs -6.00E+00 -7.49E-01 0.00E+00
v 249 scfr_cs -5.00E+00 -7.49E-01 0.00E+00
v 250 scfr_cs -4.00E+00 -7.49E-01 0.00E+00
v 251 scfr_cs -3.00E+00 -7.49E-01 0.00E+00
v 252 scfr_cs -2.00E+00 -7.49E-01 0.00E+00
v 253 scfr_cs -1.00E+00 -7.49E-01 0.00E+00
v 254 scfr_cs 0.00E+00 -7.49E-01 0.00E+00
v 255 scfr_cs -1.60E+01 -3.75E-01 0.00E+00
v 256 scfr_cs -1.50E+01 -3.75E-01 0.00E+00
v 257 scfr_cs -1.40E+01 -3.75E-01 0.00E+00
v 258 scfr_cs -1.30E+01 -3.75E-01 0.00E+00
v 259 scfr_cs -1.20E+01 -3.75E-01 0.00E+00
v 260 scfr_cs -1.10E+01 -3.75E-01 0.00E+00
v 261 scfr_cs -1.00E+01 -3.75E-01 0.00E+00
v 262 scfr_cs -9.00E+00 -3.75E-01 0.00E+00
v 263 scfr_cs -8.00E+00 -3.75E-01 0.00E+00
v 264 scfr_cs -7.00E+00 -3.75E-01 0.00E+00
v 265 scfr_cs -6.00E+00 -3.75E-01 0.00E+00
v 266 scfr_cs -5.00E+00 -3.75E-01 0.00E+00
v 267 scfr_cs -4.00E+00 -3.75E-01 0.00E+00
v 268 scfr_cs -3.00E+00 -3.75E-01 0.00E+00
v 269 scfr_cs -2.00E+00 -3.75E-01 0.00E+00
v 270 scfr_cs -1.00E+00 -3.75E-01 0.00E+00
v 271 scfr_cs 0.00E+00 -3.75E-01 0.00E+00
v 272 scfr_cs -1.60E+01 0.00E+00 0.00E+00
v 273 scfr_cs -1.50E+01 0.00E+00 0.00E+00

Trial 1 input file: 7 of 28

Trial 1 input file: 8 of 28

v 274 scfr_cs -1.40E+01 0.00E+00 0.00E+00
v 275 scfr_cs -1.30E+01 0.00E+00 0.00E+00
v 276 scfr_cs -1.20E+01 0.00E+00 0.00E+00
v 277 scfr_cs -1.10E+01 0.00E+00 0.00E+00
v 278 scfr_cs -1.00E+01 0.00E+00 0.00E+00
v 279 scfr_cs -9.00E+00 0.00E+00 0.00E+00
v 280 scfr_cs -8.00E+00 0.00E+00 0.00E+00
v 281 scfr_cs -7.00E+00 0.00E+00 0.00E+00
v 282 scfr_cs -6.00E+00 0.00E+00 0.00E+00
v 283 scfr_cs -5.00E+00 0.00E+00 0.00E+00
v 284 scfr_cs -4.00E+00 0.00E+00 0.00E+00
v 285 scfr_cs -3.00E+00 0.00E+00 0.00E+00
v 286 scfr_cs -2.00E+00 0.00E+00 0.00E+00
v 287 scfr_cs -1.00E+00 0.00E+00 0.00E+00
v 288 scfr_cs 0.00E+00 0.00E+00 0.00E+00

* (1) -2 -3 -4
* o name outp eltc csys
* -

o scfr b scfr_cs

* Traction (BC3) is specified on each element to represent lithostatic confining stress (MPa)

* (1) -2 -3 -4
* e #vert BC csys BC type BC1 BC2 BC3 v1 v2 v3 ...

e 4 scfr_cs ttt 0 0 -8.85E+00 0 1 18 17
e 4 scfr_cs ttt 0 0 -8.67E+00 1 2 19 18
e 4 scfr_cs ttt 0 0 -8.56E+00 2 3 20 19
e 4 scfr_cs ttt 0 0 -8.56E+00 3 4 21 20
e 4 scfr_cs ttt 0 0 -8.62E+00 4 5 22 21
e 4 scfr_cs ttt 0 0 -8.76E+00 5 6 23 22
e 4 scfr_cs ttt 0 0 -9.03E+00 6 7 24 23
e 4 scfr_cs ttt 0 0 -9.22E+00 7 8 25 24
e 4 scfr_cs ttt 0 0 -9.19E+00 8 9 26 25
e 4 scfr_cs ttt 0 0 -9.16E+00 9 10 27 26
e 4 scfr_cs ttt 0 0 -9.18E+00 10 11 28 27
e 4 scfr_cs ttt 0 0 -9.22E+00 11 12 29 28
e 4 scfr_cs ttt 0 0 -9.29E+00 12 13 30 29
e 4 scfr_cs ttt 0 0 -9.34E+00 13 14 31 30
e 4 scfr_cs ttt 0 0 -9.39E+00 14 15 32 31
e 4 scfr_cs ttt 0 0 -9.41E+00 15 16 33 32
e 4 scfr_cs ttt 0 0 -8.67E+00 17 18 34 33
e 4 scfr_cs ttt 0 0 -8.34E+00 18 19 35 34
e 4 scfr_cs ttt 0 0 -8.07E+00 19 20 36 35
e 4 scfr_cs ttt 0 0 -7.95E+00 20 21 37 36
e 4 scfr_cs ttt 0 0 -7.93E+00 21 22 38 37
e 4 scfr_cs ttt 0 0 -8.06E+00 22 23 40 39
e 4 scfr_cs ttt 0 0 -8.61E+00 23 24 41 40
e 4 scfr_cs ttt 0 0 -9.14E+00 24 25 42 41
e 4 scfr_cs ttt 0 0 -9.15E+00 25 26 43 42
e 4 scfr_cs ttt 0 0 -9.13E+00 26 27 44 43
e 4 scfr_cs ttt 0 0 -9.14E+00 27 28 45 44
e 4 scfr_cs ttt 0 0 -9.20E+00 28 29 46 45
e 4 scfr_cs ttt 0 0 -9.27E+00 29 30 47 46
e 4 scfr_cs ttt 0 0 -9.34E+00 30 31 48 47
e 4 scfr_cs ttt 0 0 -9.38E+00 31 32 49 48
e 4 scfr_cs ttt 0 0 -9.41E+00 32 33 50 49

e 4 scfr_cs ttt 0 0 -8.51E+00 34 35 52 51
e 4 scfr_cs ttt 0 0 -8.00E+00 35 36 53 52
e 4 scfr_cs ttt 0 0 -7.55E+00 36 37 54 53
e 4 scfr_cs ttt 0 0 -7.28E+00 37 38 55 54
e 4 scfr_cs ttt 0 0 -7.16E+00 38 39 56 55
e 4 scfr_cs ttt 0 0 -7.26E+00 39 40 57 56
e 4 scfr_cs ttt 0 0 -8.08E+00 40 41 58 57
e 4 scfr_cs ttt 0 0 -9.04E+00 41 42 59 58
e 4 scfr_cs ttt 0 0 -9.12E+00 42 43 60 59
e 4 scfr_cs ttt 0 0 -9.10E+00 43 44 61 60
e 4 scfr_cs ttt 0 0 -9.12E+00 44 45 62 61
e 4 scfr_cs ttt 0 0 -9.17E+00 45 46 63 62
e 4 scfr_cs ttt 0 0 -9.25E+00 46 47 64 63
e 4 scfr_cs ttt 0 0 -9.33E+00 47 48 65 64
e 4 scfr_cs ttt 0 0 -9.38E+00 48 49 66 65
e 4 scfr_cs ttt 0 0 -9.41E+00 49 50 67 66
e 4 scfr_cs ttt 0 0 -8.40E+00 51 52 69 68
e 4 scfr_cs ttt 0 0 -7.75E+00 52 53 70 69
e 4 scfr_cs ttt 0 0 -7.17E+00 53 54 71 70
e 4 scfr_cs ttt 0 0 -6.80E+00 54 55 72 71
e 4 scfr_cs ttt 0 0 -6.65E+00 55 56 73 72
e 4 scfr_cs ttt 0 0 -6.77E+00 56 57 74 73
e 4 scfr_cs ttt 0 0 -7.70E+00 57 58 75 74
e 4 scfr_cs ttt 0 0 -8.94E+00 58 59 76 75
e 4 scfr_cs ttt 0 0 -9.10E+00 59 60 77 76
e 4 scfr_cs ttt 0 0 -9.08E+00 60 61 78 77
e 4 scfr_cs ttt 0 0 -9.10E+00 61 62 79 78
e 4 scfr_cs ttt 0 0 -9.16E+00 62 63 80 79
e 4 scfr_cs ttt 0 0 -9.24E+00 63 64 81 80
e 4 scfr_cs ttt 0 0 -9.32E+00 64 65 82 81
e 4 scfr_cs ttt 0 0 -9.38E+00 65 66 83 82
e 4 scfr_cs ttt 0 0 -9.41E+00 66 67 84 83
e 4 scfr_cs ttt 0 0 -8.37E+00 68 69 86 85
e 4 scfr_cs ttt 0 0 -7.67E+00 69 70 87 86
e 4 scfr_cs ttt 0 0 -7.03E+00 70 71 88 87
e 4 scfr_cs ttt 0 0 -6.64E+00 71 72 89 88
e 4 scfr_cs ttt 0 0 -6.51E+00 72 73 90 89
e 4 scfr_cs ttt 0 0 -6.67E+00 73 74 91 90
e 4 scfr_cs ttt 0 0 -7.55E+00 74 75 92 91
e 4 scfr_cs ttt 0 0 -8.86E+00 75 76 93 92
e 4 scfr_cs ttt 0 0 -9.08E+00 76 77 94 93
e 4 scfr_cs ttt 0 0 -9.07E+00 77 78 95 94
e 4 scfr_cs ttt 0 0 -9.09E+00 78 79 96 95
e 4 scfr_cs ttt 0 0 -9.15E+00 79 80 97 96
e 4 scfr_cs ttt 0 0 -9.24E+00 80 81 98 97
e 4 scfr_cs ttt 0 0 -9.32E+00 81 82 99 98
e 4 scfr_cs ttt 0 0 -9.38E+00 82 83 100 99
e 4 scfr_cs ttt 0 0 -9.42E+00 83 84 101 100
e 4 scfr_cs ttt 0 0 -8.43E+00 85 86 103 102
e 4 scfr_cs ttt 0 0 -7.75E+00 86 87 104 103
e 4 scfr_cs ttt 0 0 -7.10E+00 87 88 105 104
e 4 scfr_cs ttt 0 0 -6.73E+00 88 89 106 105
e 4 scfr_cs ttt 0 0 -6.61E+00 89 90 107 106
e 4 scfr_cs ttt 0 0 -6.76E+00 90 91 108 107
e 4 scfr_cs ttt 0 0 -7.53E+00 91 92 109 108
e 4 scfr_cs ttt 0 0 -8.80E+00 92 93 110 109
e 4 scfr_cs ttt 0 0 -9.08E+00 93 94 111 110
e 4 scfr_cs ttt 0 0 -9.08E+00 94 95 112 111
e 4 scfr_cs ttt 0 0 -9.10E+00 95 96 113 112
e 4 scfr_cs ttt 0 0 -9.15E+00 96 97 114 113
e 4 scfr_cs ttt 0 0 -9.24E+00 97 98 115 114

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e	4	scfr_cs	ttt	0	0	-9.32E+00	98	99	116	115
e	4	scfr_cs	ttt	0	0	-9.38E+00	99	100	117	116
e	4	scfr_cs	ttt	0	0	-9.42E+00	100	101	118	117
e	4	scfr_cs	ttt	0	0	-8.54E+00	102	103	120	119
e	4	scfr_cs	ttt	0	0	-7.92E+00	103	104	121	120
e	4	scfr_cs	ttt	0	0	-7.30E+00	104	105	122	121
e	4	scfr_cs	ttt	0	0	-6.93E+00	105	106	123	122
e	4	scfr_cs	ttt	0	0	-6.80E+00	106	107	124	123
e	4	scfr_cs	ttt	0	0	-6.91E+00	107	108	125	124
e	4	scfr_cs	ttt	0	0	-7.58E+00	108	109	126	125
e	4	scfr_cs	ttt	0	0	-8.77E+00	109	110	127	126
e	4	scfr_cs	ttt	0	0	-9.10E+00	110	111	128	127
e	4	scfr_cs	ttt	0	0	-9.10E+00	111	112	129	128
e	4	scfr_cs	ttt	0	0	-9.11E+00	112	113	130	129
e	4	scfr_cs	ttt	0	0	-9.17E+00	113	114	131	130
e	4	scfr_cs	ttt	0	0	-9.24E+00	114	115	132	131
e	4	scfr_cs	ttt	0	0	-9.32E+00	115	116	133	132
e	4	scfr_cs	ttt	0	0	-9.38E+00	116	117	134	133
e	4	scfr_cs	ttt	0	0	-8.69E+00	117	118	135	134
e	4	scfr_cs	ttt	0	0	-8.14E+00	119	120	137	136
e	4	scfr_cs	ttt	0	0	-7.55E+00	120	121	138	137
e	4	scfr_cs	ttt	0	0	-7.18E+00	122	123	140	139
e	4	scfr_cs	ttt	0	0	-7.02E+00	123	124	141	140
e	4	scfr_cs	ttt	0	0	-7.09E+00	124	125	142	141
e	4	scfr_cs	ttt	0	0	-7.66E+00	125	126	143	142
e	4	scfr_cs	ttt	0	0	-8.77E+00	126	127	144	143
e	4	scfr_cs	ttt	0	0	-9.13E+00	127	128	145	144
e	4	scfr_cs	ttt	0	0	-9.14E+00	128	129	146	145
e	4	scfr_cs	ttt	0	0	-9.14E+00	129	130	147	146
e	4	scfr_cs	ttt	0	0	-9.18E+00	130	131	148	147
e	4	scfr_cs	ttt	0	0	-9.25E+00	131	132	149	148
e	4	scfr_cs	ttt	0	0	-9.32E+00	132	133	150	149
e	4	scfr_cs	ttt	0	0	-9.42E+00	133	134	151	150
e	4	scfr_cs	ttt	0	0	-9.42E+00	134	135	152	151
e	4	scfr_cs	ttt	0	0	-8.86E+00	136	137	154	153
e	4	scfr_cs	ttt	0	0	-8.38E+00	137	138	155	154
e	4	scfr_cs	ttt	0	0	-7.83E+00	138	139	156	155
e	4	scfr_cs	ttt	0	0	-7.45E+00	139	140	157	156
e	4	scfr_cs	ttt	0	0	-7.27E+00	140	141	158	157
e	4	scfr_cs	ttt	0	0	-7.28E+00	141	142	159	158
e	4	scfr_cs	ttt	0	0	-7.78E+00	142	143	160	159
e	4	scfr_cs	ttt	0	0	-8.79E+00	143	144	161	160
e	4	scfr_cs	ttt	0	0	-9.17E+00	144	145	162	161
e	4	scfr_cs	ttt	0	0	-9.19E+00	145	146	163	162
e	4	scfr_cs	ttt	0	0	-9.18E+00	146	147	164	163
e	4	scfr_cs	ttt	0	0	-9.20E+00	147	148	165	164
e	4	scfr_cs	ttt	0	0	-9.26E+00	148	149	166	165
e	4	scfr_cs	ttt	0	0	-9.32E+00	149	150	167	166
e	4	scfr_cs	ttt	0	0	-9.38E+00	150	151	168	167
e	4	scfr_cs	ttt	0	0	-9.42E+00	151	152	169	168
e	4	scfr_cs	ttt	0	0	-8.63E+00	153	154	171	170
e	4	scfr_cs	ttt	0	0	-8.12E+00	154	155	172	171
e	4	scfr_cs	ttt	0	0	-7.74E+00	155	156	173	172
e	4	scfr_cs	ttt	0	0	-7.53E+00	156	157	174	173
e	4	scfr_cs	ttt	0	0	-7.51E+00	157	158	175	174
e	4	scfr_cs	ttt	0	0	-7.94E+00	158	159	176	175
e	4	scfr_cs	ttt	0	0	-8.85E+00	159	160	177	176
e	4	scfr_cs	ttt	0	0	-9.23E+00	160	161	178	177
e	4	scfr_cs	ttt	0	0	-9.24E+00	161	162	179	178
e	4	scfr_cs	ttt	0	0	-9.24E+00	162	163	180	179

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e	4	scfr_cs	ttt	0	0	-9.21E+00	163	164	181	180
e	4	scfr_cs	ttt	0	0	-9.22E+00	164	165	182	181
e	4	scfr_cs	ttt	0	0	-9.26E+00	165	166	183	182
e	4	scfr_cs	ttt	0	0	-9.31E+00	166	167	184	183
e	4	scfr_cs	ttt	0	0	-9.37E+00	167	168	185	184
e	4	scfr_cs	ttt	0	0	-9.42E+00	168	169	186	185
e	4	scfr_cs	ttt	0	0	-9.27E+00	170	171	188	187
e	4	scfr_cs	ttt	0	0	-8.90E+00	171	172	189	188
e	4	scfr_cs	ttt	0	0	-8.42E+00	172	173	190	189
e	4	scfr_cs	ttt	0	0	-8.04E+00	173	174	191	190
e	4	scfr_cs	ttt	0	0	-7.82E+00	174	175	192	191
e	4	scfr_cs	ttt	0	0	-7.77E+00	175	176	193	192
e	4	scfr_cs	ttt	0	0	-8.12E+00	176	177	194	193
e	4	scfr_cs	ttt	0	0	-8.93E+00	177	178	195	194
e	4	scfr_cs	ttt	0	0	-9.29E+00	178	179	196	195
e	4	scfr_cs	ttt	0	0	-9.29E+00	179	180	197	196
e	4	scfr_cs	ttt	0	0	-9.24E+00	180	181	198	197
e	4	scfr_cs	ttt	0	0	-9.22E+00	181	182	199	198
e	4	scfr_cs	ttt	0	0	-9.24E+00	182	183	200	199
e	4	scfr_cs	ttt	0	0	-9.28E+00	183	184	201	200
e	4	scfr_cs	ttt	0	0	-9.34E+00	184	185	202	201
e	4	scfr_cs	ttt	0	0	-9.41E+00	185	186	203	202
e	4	scfr_cs	ttt	0	0	-9.50E+00	187	188	205	204
e	4	scfr_cs	ttt	0	0	-9.16E+00	188	189	206	205
e	4	scfr_cs	ttt	0	0	-8.72E+00	189	190	207	206
e	4	scfr_cs	ttt	0	0	-8.37E+00	190	191	208	207
e	4	scfr_cs	ttt	0	0	-8.14E+00	191	192	209	208
e	4	scfr_cs	ttt	0	0	-8.06E+00	192	193	210	209
e	4	scfr_cs	ttt	0	0	-8.34E+00	193	194	211	210
e	4	scfr_cs	ttt	0	0	-9.02E+00	194	195	212	211
e	4	scfr_cs	ttt	0	0	-9.34E+00	195	196	213	212
e	4	scfr_cs	ttt	0	0	-9.32E+00	196	197	214	213
e	4	scfr_cs	ttt	0	0	-9.24E+00	197	198	215	214
e	4	scfr_cs	ttt	0	0	-9.20E+00	198	199	216	215
e	4	scfr_cs	ttt	0	0	-9.19E+00	199	200	217	216
e	4	scfr_cs	ttt	0	0	-9.22E+00	200	201	218	217
e	4	scfr_cs	ttt	0	0	-9.28E+00	201	202	219	218
e	4	scfr_cs	ttt	0	0	-9.38E+00	202	203	220	219
e	4	scfr_cs	ttt	0	0	-9.74E+00	204	205	222	221
e	4	scfr_cs	ttt	0	0	-9.03E+00	206	207	224	223
e	4	scfr_cs	ttt	0	0	-8.70E+00	207	208	225	224
e	4	scfr_cs	ttt	0	0	-8.48E+00	208	209	226	225
e	4	scfr_cs	ttt	0	0	-8.37E+00	209	210	227	226
e	4	scfr_cs	ttt	0	0	-8.56E+00	210	211	228	227
e	4	scfr_cs	ttt	0	0	-9.10E+00	211	212	229	228
e	4	scfr_cs	ttt	0	0	-9.35E+00	212	213	230	229
e	4	scfr_cs	ttt	0	0	-9.30E+00	213	214	231	230
e	4	scfr_cs	ttt	0	0	-9.20E+00	214	215	232	231
e	4	scfr_cs	ttt	0	0	-9.12E+00	215	216	233	232
e	4	scfr_cs	ttt	0	0	-9.09E+00	216	217	234	233
e	4	scfr_cs	ttt	0	0	-9.10E+00	217	218	235	234
e	4	scfr_cs	ttt	0	0	-9.18E+00	218	219	236	235
e	4	scfr_cs	ttt	0	0	-9.33E+00	219	220	237	236
e	4	scfr_cs	ttt	0	0	-9.97E+00	221	222	239	238
e	4	scfr_cs	ttt	0	0	-9.63E+00	222	223	240	239
e	4	scfr_cs	ttt	0	0	-9.30E+00	223	224	241	240
e	4	scfr_cs	ttt	0	0	-9.03E+00	224	225	242	241
e	4	scfr_cs	ttt	0	0	-8.82E+00	225	226	243	242
e	4	scfr_cs	ttt	0	0	-8.68E+00	226	227	244	243
e	4	scfr_cs	ttt	0	0	-8.77E+00	227	228	245	244

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e	4	scfr_cs	ttt	0	0	-9.14E+00	228	229	246	245
e	4	scfr_cs	ttt	0	0	-9.29E+00	229	230	247	246
e	4	scfr_cs	ttt	0	0	-9.20E+00	230	231	248	247
e	4	scfr_cs	ttt	0	0	-9.06E+00	231	232	249	248
e	4	scfr_cs	ttt	0	0	-8.95E+00	232	233	250	249
e	4	scfr_cs	ttt	0	0	-8.88E+00	233	234	251	250
e	4	scfr_cs	ttt	0	0	-8.87E+00	234	235	252	251
e	4	scfr_cs	ttt	0	0	-8.97E+00	235	236	253	252
e	4	scfr_cs	ttt	0	0	-9.23E+00	236	237	254	253
e	4	scfr_cs	ttt	0	0	-1.01E+01	238	239	256	255
e	4	scfr_cs	ttt	0	0	-9.67E+00	239	240	257	256
e	4	scfr_cs	ttt	0	0	-9.45E+00	240	241	258	257
e	4	scfr_cs	ttt	0	0	-9.26E+00	241	242	259	258
e	4	scfr_cs	ttt	0	0	-9.09E+00	242	243	260	259
e	4	scfr_cs	ttt	0	0	-8.91E+00	243	244	261	260
e	4	scfr_cs	ttt	0	0	-8.85E+00	244	245	262	261
e	4	scfr_cs	ttt	0	0	-8.99E+00	245	246	263	262
e	4	scfr_cs	ttt	0	0	-9.01E+00	246	247	264	263
e	4	scfr_cs	ttt	0	0	-8.87E+00	247	248	265	264
e	4	scfr_cs	ttt	0	0	-8.70E+00	248	249	266	265
e	4	scfr_cs	ttt	0	0	-8.55E+00	249	250	267	266
e	4	scfr_cs	ttt	0	0	-8.44E+00	250	251	268	267
e	4	scfr_cs	ttt	0	0	-8.41E+00	251	252	269	268
e	4	scfr_cs	ttt	0	0	-8.54E+00	252	253	270	269
e	4	scfr_cs	ttt	0	0	-8.97E+00	253	254	271	270
e	4	scfr_cs	ttt	0	0	-4.95 255	256	273	272	
e	4	scfr_cs	ttt	0	0	-4.95 256	257	274	273	
e	4	scfr_cs	ttt	0	0	-4.95 257	258	275	274	
e	4	scfr_cs	ttt	0	0	-4.95 258	259	276	275	
e	4	scfr_cs	ttt	0	0	-4.95 259	260	277	276	
e	4	scfr_cs	ttt	0	0	-4.95 260	261	278	277	
e	4	scfr_cs	ttt	0	0	-4.95 261	262	279	278	
e	4	scfr_cs	ttt	0	0	-4.95 262	263	280	279	
e	4	scfr_cs	ttt	0	0	-4.95 263	264	281	280	
e	4	scfr_cs	ttt	0	0	-4.95 264	265	282	281	
e	4	scfr_cs	ttt	0	0	-4.95 265	266	283	282	
e	4	scfr_cs	ttt	0	0	-4.95 266	267	284	283	
e	4	scfr_cs	ttt	0	0	-4.95 267	268	285	284	
e	4	scfr_cs	ttt	0	0	-4.95 268	269	286	285	
e	4	scfr_cs	ttt	0	0	-4.95 269	270	287	286	
e	4	scfr_cs	ttt	0	0	-4.95 270	271	288	287	
v	1000	pcfr_cs	-18	-6	0					
v	1001	pcfr_cs	-17	-6	0					
v	1002	pcfr_cs	-16	-6	0					
v	1003	pcfr_cs	-15	-6	0					
v	1004	pcfr_cs	-14	-6	0					
v	1005	pcfr_cs	-13	-6	0					
v	1006	pcfr_cs	-12	-6	0					
v	1007	pcfr_cs	-11	-6	0					
v	1008	pcfr_cs	-10	-6	0					
v	1009	pcfr_cs	-9	-6	0					
v	1010	pcfr_cs	-8	-6	0					
v	1011	pcfr_cs	-7	-6	0					
v	1012	pcfr_cs	-6	-6	0					
v	1013	pcfr_cs	-5	-6	0					
v	1014	pcfr_cs	-4	-6	0					
v	1015	pcfr_cs	-3	-6	0					
v	1016	pcfr_cs	-2	-6	0					
v	1017	pcfr_cs	-1	-6	0					
v	1018	pcfr_cs	0	-6	0					

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v	1080	pcfr_cs	-14	-4.6667	0
v	1081	pcfr_cs	-13	-4.6667	0
v	1082	pcfr_cs	-12	-4.6667	0
v	1083	pcfr_cs	-11	-4.6667	0
v	1084	pcfr_cs	-10	-4.6667	0
v	1085	pcfr_cs	-9	-4.6667	0
v	1086	pcfr_cs	-8	-4.6667	0
v	1087	pcfr_cs	-7	-4.6667	0
v	1088	pcfr_cs	-6	-4.6667	0
v	1089	pcfr_cs	-5	-4.6667	0
v	1090	pcfr_cs	-4	-4.6667	0
v	1091	pcfr_cs	-3	-4.6667	0
v	1092	pcfr_cs	-2	-4.6667	0
v	1093	pcfr_cs	-1	-4.6667	0
v	1094	pcfr_cs	0	-4.6667	0
v	1095	pcfr_cs	-18	-4.3333	0
v	1096	pcfr_cs	-17	-4.3333	0
v	1097	pcfr_cs	-16	-4.3333	0
v	1098	pcfr_cs	-15	-4.3333	0
v	1099	pcfr_cs	-14	-4.3333	0
v	1100	pcfr_cs	-13	-4.3333	0
v	1101	pcfr_cs	-12	-4.3333	0
v	1102	pcfr_cs	-11	-4.3333	0
v	1103	pcfr_cs	-10	-4.3333	0
v	1104	pcfr_cs	-9	-4.3333	0
v	1105	pcfr_cs	-8	-4.3333	0
v	1106	pcfr_cs	-7	-4.3333	0
v	1107	pcfr_cs	-6	-4.3333	0
v	1108	pcfr_cs	-5	-4.3333	0
v	1109	pcfr_cs	-4	-4.3333	0
v	1110	pcfr_cs	-3	-4.3333	0
v	1111	pcfr_cs	-2	-4.3333	0
v	1112	pcfr_cs	-1	-4.3333	0
v	1113	pcfr_cs	0	-4.3333	0
v	1114	pcfr_cs	-18	-4	0
v	1115	pcfr_cs	-17	-4	0
v	1116	pcfr_cs	-16	-4	0
v	1117	pcfr_cs	-15	-4	0
v	1118	pcfr_cs	-14	-4	0
v	1119	pcfr_cs	-13	-4	0
v	1120	pcfr_cs	-12	-4	0
v	1121	pcfr_cs	-11	-4	0
v	1122	pcfr_cs	-10	-4	0
v	1123	pcfr_cs	-9	-4	0
v	1124	pcfr_cs	-8	-4	0
v	1125	pcfr_cs	-7	-4	0
v	1126	pcfr_cs	-6	-4	0
v	1127	pcfr_cs	-5	-4	0
v	1128	pcfr_cs	-4	-4	0
v	1129	pcfr_cs	-3	-4	0
v	1130	pcfr_cs	-2	-4	0
v	1131	pcfr_cs	-1	-4	0
v	1132	pcfr_cs	0	-4	0
v	1133	pcfr_cs	-18	-3.6667	0
v	1134	pcfr_cs	-17	-3.6667	0
v	1135	pcfr_cs	-16	-3.6667	0
v	1136	pcfr_cs	-15	-3.6667	0
v	1137	pcfr_cs	-14	-3.6667	0
v	1138	pcfr_cs	-13	-3.6667	0
v	1139	pcfr_cs	-12	-3.6667	0
v	1140	pcfr_cs	-11	-3.6667	0

v	1141	pcfr_cs	-10	-3.6667	0
v	1142	pcfr_cs	-9	-3.6667	0
v	1143	pcfr_cs	-8	-3.6667	0
v	1144	pcfr_cs	-7	-3.6667	0
v	1145	pcfr_cs	-6	-3.6667	0
v	1146	pcfr_cs	-5	-3.6667	0
v	1147	pcfr_cs	-4	-3.6667	0
v	1148	pcfr_cs	-3	-3.6667	0
v	1149	pcfr_cs	-2	-3.6667	0
v	1150	pcfr_cs	-1	-3.6667	0
v	1151	pcfr_cs	0	-3.6667	0
v	1152	pcfr_cs	-18	-3.3333	0
v	1153	pcfr_cs	-17	-3.3333	0
v	1154	pcfr_cs	-16	-3.3333	0
v	1155	pcfr_cs	-15	-3.3333	0
v	1156	pcfr_cs	-14	-3.3333	0
v	1157	pcfr_cs	-13	-3.3333	0
v	1158	pcfr_cs	-12	-3.3333	0
v	1159	pcfr_cs	-11	-3.3333	0
v	1160	pcfr_cs	-10	-3.3333	0
v	1161	pcfr_cs	-9	-3.3333	0
v	1162	pcfr_cs	-8	-3.3333	0
v	1163	pcfr_cs	-7	-3.3333	0
v	1164	pcfr_cs	-6	-3.3333	0
v	1165	pcfr_cs	-5	-3.3333	0
v	1166	pcfr_cs	-4	-3.3333	0
v	1167	pcfr_cs	-3	-3.3333	0
v	1168	pcfr_cs	-2	-3.3333	0
v	1169	pcfr_cs	-1	-3.3333	0
v	1170	pcfr_cs	0	-3.3333	0
v	1171	pcfr_cs	-18	-3	0
v	1172	pcfr_cs	-17	-3	0
v	1173	pcfr_cs	-16	-3	0
v	1174	pcfr_cs	-15	-3	0
v	1175	pcfr_cs	-14	-3	0
v	1176	pcfr_cs	-13	-3	0
v	1177	pcfr_cs	-12	-3	0
v	1178	pcfr_cs	-11	-3	0
v	1179	pcfr_cs	-10	-3	0
v	1180	pcfr_cs	-9	-3	0
v	1181	pcfr_cs	-8	-3	0
v	1182	pcfr_cs	-7	-3	0
v	1183	pcfr_cs	-6	-3	0
v	1184	pcfr_cs	-5	-3	0
v	1185	pcfr_cs	-4	-3	0
v	1186	pcfr_cs	-3	-3	0
v	1187	pcfr_cs	-2	-3	0
v	1188	pcfr_cs	-1	-3	0
v	1189	pcfr_cs	0	-3	0
v	1190	pcfr_cs	-18	-2.6667	0
v	1191	pcfr_cs	-17	-2.6667	0
v	1192	pcfr_cs	-16	-2.6667	0
v	1193	pcfr_cs	-15	-2.6667	0
v	1194	pcfr_cs	-14	-2.6667	0
v	1195	pcfr_cs	-13	-2.6667	0
v	1196	pcfr_cs	-12	-2.6667	0
v	1197	pcfr_cs	-11	-2.6667	0
v	1198	pcfr_cs	-10	-2.6667	0
v	1199	pcfr_cs	-9	-2.6667	0
v	1200	pcfr_cs	-8	-2.6667	0
v	1201	pcfr_cs	-7	-2.6667	0

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v	1202	pcfr_cs	-6	-2.6667	0
v	1203	pcfr_cs	-5	-2.6667	0
v	1204	pcfr_cs	-4	-2.6667	0
v	1205	pcfr_cs	-3	-2.6667	0
v	1206	pcfr_cs	-2	-2.6667	0
v	1207	pcfr_cs	-1	-2.6667	0
v	1208	pcfr_cs	0	-2.6667	0
v	1209	pcfr_cs	-18	-2.3333	0
v	1210	pcfr_cs	-17	-2.3333	0
v	1211	pcfr_cs	-16	-2.3333	0
v	1212	pcfr_cs	-15	-2.3333	0
v	1213	pcfr_cs	-14	-2.3333	0
v	1214	pcfr_cs	-13	-2.3333	0
v	1215	pcfr_cs	-12	-2.3333	0
v	1216	pcfr_cs	-11	-2.3333	0
v	1217	pcfr_cs	-10	-2.3333	0
v	1218	pcfr_cs	-9	-2.3333	0
v	1219	pcfr_cs	-8	-2.3333	0
v	1220	pcfr_cs	-7	-2.3333	0
v	1221	pcfr_cs	-6	-2.3333	0
v	1222	pcfr_cs	-5	-2.3333	0
v	1223	pcfr_cs	-4	-2.3333	0
v	1224	pcfr_cs	-3	-2.3333	0
v	1225	pcfr_cs	-2	-2.3333	0
v	1226	pcfr_cs	-1	-2.3333	0
v	1227	pcfr_cs	0	-2.3333	0
v	1228	pcfr_cs	-18	-2	0
v	1229	pcfr_cs	-17	-2	0
v	1230	pcfr_cs	-16	-2	0
v	1231	pcfr_cs	-15	-2	0
v	1232	pcfr_cs	-14	-2	0
v	1233	pcfr_cs	-13	-2	0
v	1234	pcfr_cs	-12	-2	0
v	1235	pcfr_cs	-11	-2	0
v	1236	pcfr_cs	-10	-2	0
v	1237	pcfr_cs	-9	-2	0
v	1238	pcfr_cs	-8	-2	0
v	1239	pcfr_cs	-7	-2	0
v	1240	pcfr_cs	-6	-2	0
v	1241	pcfr_cs	-5	-2	0
v	1242	pcfr_cs	-4	-2	0
v	1243	pcfr_cs	-3	-2	0
v	1244	pcfr_cs	-2	-2	0
v	1245	pcfr_cs	-1	-2	0
v	1246	pcfr_cs	0	-2	0
v	1247	pcfr_cs	-18	-1.6667	0
v	1248	pcfr_cs	-17	-1.6667	0
v	1249	pcfr_cs	-16	-1.6667	0
v	1250	pcfr_cs	-15	-1.6667	0
v	1251	pcfr_cs	-14	-1.6667	0
v	1252	pcfr_cs	-13	-1.6667	0
v	1253	pcfr_cs	-12	-1.6667	0
v	1254	pcfr_cs	-11	-1.6667	0
v	1255	pcfr_cs	-10	-1.6667	0
v	1256	pcfr_cs	-9	-1.6667	0
v	1257	pcfr_cs	-8	-1.6667	0
v	1258	pcfr_cs	-7	-1.6667	0
v	1259	pcfr_cs	-6	-1.6667	0
v	1260	pcfr_cs	-5	-1.6667	0
v	1261	pcfr_cs	-4	-1.6667	0
v	1262	pcfr_cs	-3	-1.6667	0

v	1263	pcfr_cs	-2	-1.6667	0
v	1264	pcfr_cs	-1	-1.6667	0
v	1265	pcfr_cs	0	-1.6667	0
v	1266	pcfr_cs	-18	-1.3333	0
v	1267	pcfr_cs	-17	-1.3333	0
v	1268	pcfr_cs	-16	-1.3333	0
v	1269	pcfr_cs	-15	-1.3333	0
v	1270	pcfr_cs	-14	-1.3333	0
v	1271	pcfr_cs	-13	-1.3333	0
v	1272	pcfr_cs	-12	-1.3333	0
v	1273	pcfr_cs	-11	-1.3333	0
v	1274	pcfr_cs	-10	-1.3333	0
v	1275	pcfr_cs	-9	-1.3333	0
v	1276	pcfr_cs	-8	-1.3333	0
v	1277	pcfr_cs	-7	-1.3333	0
v	1278	pcfr_cs	-6	-1.3333	0
v	1279	pcfr_cs	-5	-1.3333	0
v	1280	pcfr_cs	-4	-1.3333	0
v	1281	pcfr_cs	-3	-1.3333	0
v	1282	pcfr_cs	-2	-1.3333	0
v	1283	pcfr_cs	-1	-1.3333	0
v	1284	pcfr_cs	0	-1.3333	0
v	1285	pcfr_cs	-18	-1	0
v	1286	pcfr_cs	-17	-1	0
v	1287	pcfr_cs	-16	-1	0
v	1288	pcfr_cs	-15	-1	0
v	1289	pcfr_cs	-14	-1	0
v	1290	pcfr_cs	-13	-1	0
v	1291	pcfr_cs	-12	-1	0
v	1292	pcfr_cs	-11	-1	0
v	1293	pcfr_cs	-10	-1	0
v	1294	pcfr_cs	-9	-1	0
v	1295	pcfr_cs	-8	-1	0
v	1296	pcfr_cs	-7	-1	0
v	1297	pcfr_cs	-6	-1	0
v	1298	pcfr_cs	-5	-1	0
v	1299	pcfr_cs	-4	-1	0
v	1300	pcfr_cs	-3	-1	0
v	1301	pcfr_cs	-2	-1	0
v	1302	pcfr_cs	-1	-1	0
v	1303	pcfr_cs	0	-1	0
v	1304	pcfr_cs	-18	-0.6667	0
v	1305	pcfr_cs	-17	-0.6667	0
v	1306	pcfr_cs	-16	-0.6667	0
v	1307	pcfr_cs	-15	-0.6667	0
v	1308	pcfr_cs	-14	-0.6667	0
v	1309	pcfr_cs	-13	-0.6667	0
v	1310	pcfr_cs	-12	-0.6667	0
v	1311	pcfr_cs	-11	-0.6667	0
v	1312	pcfr_cs	-10	-0.6667	0
v	1313	pcfr_cs	-9	-0.6667	0
v	1314	pcfr_cs	-8	-0.6667	0
v	1315	pcfr_cs	-7	-0.6667	0
v	1316	pcfr_cs	-6	-0.6667	0
v	1317	pcfr_cs	-5	-0.6667	0
v	1318	pcfr_cs	-4	-0.6667	0
v	1319	pcfr_cs	-3	-0.6667	0
v	1320	pcfr_cs	-2	-0.6667	0
v	1321	pcfr_cs	-1	-0.6667	0
v	1322	pcfr_cs	0	-0.6667	0
v	1323	pcfr_cs	-18	-0.3333	0

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v	1324	pcfr_cs	-17	-0.3333	0				
v	1325	pcfr_cs	-16	-0.3333	0				
v	1326	pcfr_cs	-15	-0.3333	0				
v	1327	pcfr_cs	-14	-0.3333	0				
v	1328	pcfr_cs	-13	-0.3333	0				
v	1329	pcfr_cs	-12	-0.3333	0				
v	1330	pcfr_cs	-11	-0.3333	0				
v	1331	pcfr_cs	-10	-0.3333	0				
v	1332	pcfr_cs	-9	-0.3333	0				
v	1333	pcfr_cs	-8	-0.3333	0				
v	1334	pcfr_cs	-7	-0.3333	0				
v	1335	pcfr_cs	-6	-0.3333	0				
v	1336	pcfr_cs	-5	-0.3333	0				
v	1337	pcfr_cs	-4	-0.3333	0				
v	1338	pcfr_cs	-3	-0.3333	0				
v	1339	pcfr_cs	-2	-0.3333	0				
v	1340	pcfr_cs	-1	-0.3333	0				
v	1341	pcfr_cs	0	-0.3333	0				
v	1342	pcfr_cs	-18	0	0				
v	1343	pcfr_cs	-17	0	0				
v	1344	pcfr_cs	-16	0	0				
v	1345	pcfr_cs	-15	0	0				
v	1346	pcfr_cs	-14	0	0				
v	1347	pcfr_cs	-13	0	0				
v	1348	pcfr_cs	-12	0	0				
v	1349	pcfr_cs	-11	0	0				
v	1350	pcfr_cs	-10	0	0				
v	1351	pcfr_cs	-9	0	0				
v	1352	pcfr_cs	-8	0	0				
v	1353	pcfr_cs	-7	0	0				
v	1354	pcfr_cs	-6	0	0				
v	1355	pcfr_cs	-5	0	0				
v	1356	pcfr_cs	-4	0	0				
v	1357	pcfr_cs	-3	0	0				
v	1358	pcfr_cs	-2	0	0				
v	1359	pcfr_cs	-1	0	0				
v	1360	pcfr_cs	0	0	0				

* (1) -2 -3 -4
*o name outp eltc csys
*o pcfr b pcfr_cs

e	4	pcfr_cs	ttt	0	0	-9.46E+00	1000	1001	1020	1019
e	4	pcfr_cs	ttt	0	0	-9.48E+00	1001	1002	1021	1020
e	4	pcfr_cs	ttt	0	0	-9.51E+00	1002	1003	1022	1021
e	4	pcfr_cs	ttt	0	0	-9.55E+00	1003	1004	1023	1022
e	4	pcfr_cs	ttt	0	0	-9.62E+00	1004	1005	1024	1023
e	4	pcfr_cs	ttt	0	0	-9.73E+00	1005	1006	1025	1024
e	4	pcfr_cs	ttt	0	0	-9.94E+00	1006	1007	1026	1025
e	4	pcfr_cs	ttt	0	0	-1.02E+01	1007	1008	1027	1026
e	4	pcfr_cs	ttt	0	0	-1.05E+01	1008	1009	1028	1027
e	4	pcfr_cs	ttt	0	0	-1.07E+01	1009	1010	1029	1028
e	4	pcfr_cs	ttt	0	0	-1.07E+01	1010	1011	1030	1029
e	4	pcfr_cs	ttt	0	0	-1.07E+01	1011	1012	1031	1030
e	4	pcfr_cs	ttt	0	0	-1.06E+01	1012	1013	1032	1031
e	4	pcfr_cs	ttt	0	0	-1.04E+01	1013	1014	1033	1032
e	4	pcfr_cs	ttt	0	0	-1.02E+01	1014	1015	1034	1033
e	4	pcfr_cs	ttt	0	0	-1.01E+01	1015	1016	1035	1034

e	4	pcfr_cs	ttt	0	0	-1.01E+01	1016	1017	1036	1035
e	4	pcfr_cs	ttt	0	0	-1.00E+01	1017	1018	1037	1036
e	4	pcfr_cs	ttt	0	0	-9.47E+00	1019	1020	1039	1038
e	4	pcfr_cs	ttt	0	0	-9.49E+00	1020	1021	1040	1039
e	4	pcfr_cs	ttt	0	0	-9.51E+00	1021	1022	1041	1040
e	4	pcfr_cs	ttt	0	0	-9.55E+00	1022	1023	1042	1041
e	4	pcfr_cs	ttt	0	0	-9.60E+00	1023	1024	1043	1042
e	4	pcfr_cs	ttt	0	0	-9.68E+00	1024	1025	1044	1043
e	4	pcfr_cs	ttt	0	0	-9.84E+00	1025	1026	1045	1044
e	4	pcfr_cs	ttt	0	0	-1.01E+01	1026	1027	1046	1045
e	4	pcfr_cs	ttt	0	0	-1.04E+01	1027	1028	1047	1046
e	4	pcfr_cs	ttt	0	0	-1.06E+01	1028	1029	1048	1047
e	4	pcfr_cs	ttt	0	0	-1.06E+01	1029	1030	1049	1048
e	4	pcfr_cs	ttt	0	0	-1.06E+01	1030	1031	1050	1049
e	4	pcfr_cs	ttt	0	0	-1.05E+01	1031	1032	1051	1050
e	4	pcfr_cs	ttt	0	0	-1.03E+01	1032	1033	1052	1051
e	4	pcfr_cs	ttt	0	0	-1.02E+01	1033	1034	1053	1052
e	4	pcfr_cs	ttt	0	0	-1.01E+01	1034	1035	1054	1053
e	4	pcfr_cs	ttt	0	0	-9.99E+00	1035	1036	1055	1054
e	4	pcfr_cs	ttt	0	0	-9.94E+00	1036	1037	1056	1055
e	4	pcfr_cs	ttt	0	0	-9.48E+00	1038	1039	1058	1057
e	4	pcfr_cs	ttt	0	0	-9.50E+00	1039	1040	1059	1058
e	4	pcfr_cs	ttt	0	0	-9.52E+00	1040	1041	1060	1059
e	4	pcfr_cs	ttt	0	0	-9.55E+00	1041	1042	1061	1060
e	4	pcfr_cs	ttt	0	0	-9.59E+00	1042	1043	1062	1061
e	4	pcfr_cs	ttt	0	0	-9.62E+00	1043	1044	1063	1062
e	4	pcfr_cs	ttt	0	0	-9.71E+00	1044	1045	1064	1063
e	4	pcfr_cs	ttt	0	0	-9.94E+00	1045	1046	1065	1064
e	4	pcfr_cs	ttt	0	0	-1.02E+01	1046	1047	1066	1065
e	4	pcfr_cs	ttt	0	0	-1.04E+01	1047	1048	1067	1066
e	4	pcfr_cs	ttt	0	0	-1.05E+01	1048	1049	1068	1067
e	4	pcfr_cs	ttt	0	0	-1.05E+01	1049	1050	1069	1068
e	4	pcfr_cs	ttt	0	0	-1.04E+01	1050	1051	1070	1069
e	4	pcfr_cs	ttt	0	0	-1.02E+01	1051	1052	1071	1070
e	4	pcfr_cs	ttt	0	0	-1.01E+01	1052	1053	1072	1071
e	4	pcfr_cs	ttt	0	0	-9.96E+00	1053	1054	1073	1072
e	4	pcfr_cs	ttt	0	0	-9.90E+00	1054	1055	1074	1073
e	4	pcfr_cs	ttt	0	0	-9.85E+00	1055	1056	1075	1074
e	4	pcfr_cs	ttt	0	0	-9.48E+00	1057	1058	1077	1076
e	4	pcfr_cs	ttt	0	0	-9.50E+00	1058	1059	1078	1077
e	4	pcfr_cs	ttt	0	0	-9.53E+00	1059	1060	1079	1078
e	4	pcfr_cs	ttt	0	0	-9.55E+00	1060	1061	1080	1079
e	4	pcfr_cs	ttt	0	0	-9.57E+00	1061	1062	1081	1080
e	4	pcfr_cs	ttt	0	0	-9.57E+00	1062	1063	1082	1081
e	4	pcfr_cs	ttt	0	0	-9.72E+00	1064	1065	1084	1083
e	4	pcfr_cs	ttt	0	0	-9.95E+00	1065	1066	1085	1084
e	4	pcfr_cs	ttt	0	0	-1.01E+01	1066	1067	1086	1085
e	4	pcfr_cs	ttt	0	0	-1.03E+01	1067	1068	1087	1086
e	4	pcfr_cs	ttt	0	0	-1.03E+01	1068	1069	1088	1087
e	4	pcfr_cs	ttt	0	0	-1.03E+01	1069	1070	1089	1088
e	4	pcfr_cs	ttt	0	0	-1.01E+01	1070	1071	1090	1089
e	4	pcfr_cs	ttt	0	0	-9.96E+00	1071	1072	1091	1090
e	4	pcfr_cs	ttt	0	0	-9.86E+00	1072	1073	1092	1091
e	4	pcfr_cs	ttt	0	0	-9.79E+00	1073	1074	1093	1092
e	4	pcfr_cs	ttt	0	0	-9.75E+00	1074	1075	1094	1093
e	4	pcfr_cs	ttt	0	0	-9.49E+00	1076	1077	1096	1095
e	4	pcfr_cs	ttt	0	0	-9.51E+00	1077	1078	1097	1096
e	4	pcfr_cs	ttt	0	0	-9.53E+00	1078	1079	1098	1097
e	4	pcfr_cs	ttt	0	0	-9.55E+00	1079	1080	1099	1098
e	4	pcfr_cs	ttt	0	0	-9.55E+00	1080	1081	1100	1099

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e	4	pcfr_cs	ttt	0	0	-9.49E+00	1081	1082	1101	1100
e	4	pcfr_cs	ttt	0	0	-9.41E+00	1082	1083	1102	1101
e	4	pcfr_cs	ttt	0	0	-9.48E+00	1083	1084	1103	1102
e	4	pcfr_cs	ttt	0	0	-9.68E+00	1084	1085	1104	1103
e	4	pcfr_cs	ttt	0	0	-9.86E+00	1085	1086	1105	1104
e	4	pcfr_cs	ttt	0	0	-1.00E+01	1086	1087	1106	1105
e	4	pcfr_cs	ttt	0	0	-1.01E+01	1087	1088	1107	1106
e	4	pcfr_cs	ttt	0	0	-1.01E+01	1088	1089	1108	1107
e	4	pcfr_cs	ttt	0	0	-9.99E+00	1089	1090	1109	1108
e	4	pcfr_cs	ttt	0	0	-9.83E+00	1090	1091	1110	1109
e	4	pcfr_cs	ttt	0	0	-9.73E+00	1091	1092	1111	1110
e	4	pcfr_cs	ttt	0	0	-9.67E+00	1092	1093	1112	1111
e	4	pcfr_cs	ttt	0	0	-9.64E+00	1093	1094	1113	1112
e	4	pcfr_cs	ttt	0	0	-9.50E+00	1095	1096	1115	1114
e	4	pcfr_cs	ttt	0	0	-9.52E+00	1096	1097	1116	1115
e	4	pcfr_cs	ttt	0	0	-9.54E+00	1097	1098	1117	1116
e	4	pcfr_cs	ttt	0	0	-9.55E+00	1098	1099	1118	1117
e	4	pcfr_cs	ttt	0	0	-9.53E+00	1099	1100	1119	1118
e	4	pcfr_cs	ttt	0	0	-9.42E+00	1100	1101	1120	1119
e	4	pcfr_cs	ttt	0	0	-9.24E+00	1101	1102	1121	1120
e	4	pcfr_cs	ttt	0	0	-9.22E+00	1102	1103	1122	1121
e	4	pcfr_cs	ttt	0	0	-9.36E+00	1103	1104	1123	1122
e	4	pcfr_cs	ttt	0	0	-9.54E+00	1104	1105	1124	1123
e	4	pcfr_cs	ttt	0	0	-9.73E+00	1105	1106	1125	1124
e	4	pcfr_cs	ttt	0	0	-9.89E+00	1106	1107	1126	1125
e	4	pcfr_cs	ttt	0	0	-9.93E+00	1107	1108	1127	1126
e	4	pcfr_cs	ttt	0	0	-9.83E+00	1108	1109	1128	1127
e	4	pcfr_cs	ttt	0	0	-9.69E+00	1109	1110	1129	1128
e	4	pcfr_cs	ttt	0	0	-9.59E+00	1110	1111	1130	1129
e	4	pcfr_cs	ttt	0	0	-9.53E+00	1111	1112	1131	1130
e	4	pcfr_cs	ttt	0	0	-9.51E+00	1112	1113	1132	1131
e	4	pcfr_cs	ttt	0	0	-9.51E+00	1114	1115	1134	1133
e	4	pcfr_cs	ttt	0	0	-9.52E+00	1115	1116	1135	1134
e	4	pcfr_cs	ttt	0	0	-9.54E+00	1116	1117	1136	1135
e	4	pcfr_cs	ttt	0	0	-9.55E+00	1117	1118	1137	1136
e	4	pcfr_cs	ttt	0	0	-9.51E+00	1118	1119	1138	1137
e	4	pcfr_cs	ttt	0	0	-9.36E+00	1119	1120	1139	1138
e	4	pcfr_cs	ttt	0	0	-9.06E+00	1120	1121	1140	1139
e	4	pcfr_cs	ttt	0	0	-8.93E+00	1121	1122	1141	1140
e	4	pcfr_cs	ttt	0	0	-9.02E+00	1122	1123	1142	1141
e	4	pcfr_cs	ttt	0	0	-9.18E+00	1123	1124	1143	1142
e	4	pcfr_cs	ttt	0	0	-9.39E+00	1124	1125	1144	1143
e	4	pcfr_cs	ttt	0	0	-9.60E+00	1125	1126	1145	1144
e	4	pcfr_cs	ttt	0	0	-9.71E+00	1126	1127	1146	1145
e	4	pcfr_cs	ttt	0	0	-9.65E+00	1127	1128	1147	1146
e	4	pcfr_cs	ttt	0	0	-9.52E+00	1128	1129	1148	1147
e	4	pcfr_cs	ttt	0	0	-9.43E+00	1129	1130	1149	1148
e	4	pcfr_cs	ttt	0	0	-9.38E+00	1130	1131	1150	1149
e	4	pcfr_cs	ttt	0	0	-9.36E+00	1131	1132	1151	1150
e	4	pcfr_cs	ttt	0	0	-9.51E+00	1133	1134	1153	1152
e	4	pcfr_cs	ttt	0	0	-9.53E+00	1134	1135	1154	1153
e	4	pcfr_cs	ttt	0	0	-9.54E+00	1135	1136	1155	1154
e	4	pcfr_cs	ttt	0	0	-9.54E+00	1136	1137	1156	1155
e	4	pcfr_cs	ttt	0	0	-9.49E+00	1137	1138	1157	1156
e	4	pcfr_cs	ttt	0	0	-9.29E+00	1138	1139	1158	1157
e	4	pcfr_cs	ttt	0	0	-8.89E+00	1139	1140	1159	1158
e	4	pcfr_cs	ttt	0	0	-8.63E+00	1140	1141	1160	1159
e	4	pcfr_cs	ttt	0	0	-8.65E+00	1141	1142	1161	1160
e	4	pcfr_cs	ttt	0	0	-8.78E+00	1142	1143	1162	1161
e	4	pcfr_cs	ttt	0	0	-9.01E+00	1143	1144	1163	1162
e	4	pcfr_cs	ttt	0	0	-9.28E+00	1144	1145	1164	1163

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e	4	pcfr_cs	ttt	0	0	-9.48E+00	1210	1211	1230	1229		e	4	pcfr_cs	ttt	0	0	-4.47E+00	1274	1275	1294	1293
e	4	pcfr_cs	ttt	0	0	-9.47E+00	1211	1212	1231	1230		e	4	pcfr_cs	ttt	0	0	-4.29E+00	1275	1276	1295	1294
e	4	pcfr_cs	ttt	0	0	-9.46E+00	1212	1213	1232	1231		e	4	pcfr_cs	ttt	0	0	-4.66E+00	1276	1277	1296	1295
e	4	pcfr_cs	ttt	0	0	-9.39E+00	1213	1214	1233	1232		e	4	pcfr_cs	ttt	0	0	-5.49E+00	1277	1278	1297	1296
e	4	pcfr_cs	ttt	0	0	-9.08E+00	1214	1215	1234	1233		e	4	pcfr_cs	ttt	0	0	-6.56E+00	1278	1279	1298	1297
e	4	pcfr_cs	ttt	0	0	-8.18E+00	1215	1216	1235	1234		e	4	pcfr_cs	ttt	0	0	-7.30E+00	1279	1280	1299	1298
e	4	pcfr_cs	ttt	0	0	-7.18E+00	1216	1217	1236	1235		e	4	pcfr_cs	ttt	0	0	-7.51E+00	1280	1281	1300	1299
e	4	pcfr_cs	ttt	0	0	-6.71E+00	1217	1218	1237	1236		e	4	pcfr_cs	ttt	0	0	-7.53E+00	1281	1282	1301	1300
e	4	pcfr_cs	ttt	0	0	-6.67E+00	1218	1219	1238	1237		e	4	pcfr_cs	ttt	0	0	-7.62E+00	1282	1283	1302	1301
e	4	pcfr_cs	ttt	0	0	-6.95E+00	1219	1220	1239	1238		e	4	pcfr_cs	ttt	0	0	-7.88E+00	1283	1284	1303	1302
e	4	pcfr_cs	ttt	0	0	-7.49E+00	1220	1221	1240	1239		e	4	pcfr_cs	ttt	0	0	-9.28E+00	1285	1286	1305	1304
e	4	pcfr_cs	ttt	0	0	-8.08E+00	1221	1222	1241	1240		e	4	pcfr_cs	ttt	0	0	-8.98E+00	1286	1287	1306	1305
e	4	pcfr_cs	ttt	0	0	-8.40E+00	1222	1223	1242	1241		e	4	pcfr_cs	ttt	0	0	-8.87E+00	1287	1288	1307	1306
e	4	pcfr_cs	ttt	0	0	-8.44E+00	1223	1224	1243	1242		e	4	pcfr_cs	ttt	0	0	-8.87E+00	1288	1289	1308	1307
e	4	pcfr_cs	ttt	0	0	-8.40E+00	1224	1225	1244	1243		e	4	pcfr_cs	ttt	0	0	-8.91E+00	1289	1290	1309	1308
e	4	pcfr_cs	ttt	0	0	-8.41E+00	1225	1226	1245	1244		e	4	pcfr_cs	ttt	0	0	-8.81E+00	1290	1291	1310	1309
e	4	pcfr_cs	ttt	0	0	-8.49E+00	1226	1227	1246	1245		e	4	pcfr_cs	ttt	0	0	-7.42E+00	1291	1292	1311	1310
e	4	pcfr_cs	ttt	0	0	-9.49E+00	1228	1229	1248	1247		e	4	pcfr_cs	ttt	0	0	-4.76E+00	1292	1293	1312	1311
e	4	pcfr_cs	ttt	0	0	-9.44E+00	1229	1230	1249	1248		e	4	pcfr_cs	ttt	0	0	-3.50E+00	1293	1294	1313	1312
e	4	pcfr_cs	ttt	0	0	-9.41E+00	1230	1231	1250	1249		e	4	pcfr_cs	ttt	0	0	-3.31E+00	1294	1295	1314	1313
e	4	pcfr_cs	ttt	0	0	-9.40E+00	1231	1232	1251	1250		e	4	pcfr_cs	ttt	0	0	-3.74E+00	1295	1296	1315	1314
e	4	pcfr_cs	ttt	0	0	-9.34E+00	1232	1233	1252	1251		e	4	pcfr_cs	ttt	0	0	-4.68E+00	1296	1297	1316	1315
e	4	pcfr_cs	ttt	0	0	-9.04E+00	1233	1234	1253	1252		e	4	pcfr_cs	ttt	0	0	-5.91E+00	1297	1298	1317	1316
e	4	pcfr_cs	ttt	0	0	-8.00E+00	1234	1235	1254	1253		e	4	pcfr_cs	ttt	0	0	-6.80E+00	1298	1299	1318	1317
e	4	pcfr_cs	ttt	0	0	-6.70E+00	1235	1236	1255	1254		e	4	pcfr_cs	ttt	0	0	-7.06E+00	1299	1300	1319	1318
e	4	pcfr_cs	ttt	0	0	-6.07E+00	1236	1237	1256	1255		e	4	pcfr_cs	ttt	0	0	-7.10E+00	1300	1301	1320	1319
e	4	pcfr_cs	ttt	0	0	-5.97E+00	1237	1238	1257	1256		e	4	pcfr_cs	ttt	0	0	-7.24E+00	1301	1302	1321	1320
e	4	pcfr_cs	ttt	0	0	-6.26E+00	1238	1239	1258	1257		e	4	pcfr_cs	ttt	0	0	-7.64E+00	1302	1303	1322	1321
e	4	pcfr_cs	ttt	0	0	-6.89E+00	1239	1240	1259	1258		e	4	pcfr_cs	ttt	0	0	-8.98E+00	1304	1305	1324	1323
e	4	pcfr_cs	ttt	0	0	-7.63E+00	1240	1241	1260	1259		e	4	pcfr_cs	ttt	0	0	-8.51E+00	1305	1306	1325	1324
e	4	pcfr_cs	ttt	0	0	-8.07E+00	1241	1242	1261	1260		e	4	pcfr_cs	ttt	0	0	-8.37E+00	1306	1307	1326	1325
e	4	pcfr_cs	ttt	0	0	-8.16E+00	1242	1243	1262	1261		e	4	pcfr_cs	ttt	0	0	-8.37E+00	1307	1308	1327	1326
e	4	pcfr_cs	ttt	0	0	-8.15E+00	1243	1244	1263	1262		e	4	pcfr_cs	ttt	0	0	-8.46E+00	1308	1309	1328	1327
e	4	pcfr_cs	ttt	0	0	-8.18E+00	1244	1245	1264	1263		e	4	pcfr_cs	ttt	0	0	-8.44E+00	1309	1310	1329	1328
e	4	pcfr_cs	ttt	0	0	-8.29E+00	1245	1246	1265	1264		e	4	pcfr_cs	ttt	0	0	-7.00E+00	1310	1311	1330	1329
e	4	pcfr_cs	ttt	0	0	-9.46E+00	1247	1248	1267	1266		e	4	pcfr_cs	ttt	0	0	-3.87E+00	1311	1312	1331	1330
e	4	pcfr_cs	ttt	0	0	-9.36E+00	1248	1249	1268	1267		e	4	pcfr_cs	ttt	0	0	-2.43E+00	1312	1313	1332	1331
e	4	pcfr_cs	ttt	0	0	-9.31E+00	1249	1250	1269	1268		e	4	pcfr_cs	ttt	0	0	-2.24E+00	1313	1314	1333	1332
e	4	pcfr_cs	ttt	0	0	-9.30E+00	1250	1251	1270	1269		e	4	pcfr_cs	ttt	0	0	-2.73E+00	1314	1315	1334	1333
e	4	pcfr_cs	ttt	0	0	-9.27E+00	1251	1252	1271	1270		e	4	pcfr_cs	ttt	0	0	-3.77E+00	1315	1316	1335	1334
e	4	pcfr_cs	ttt	0	0	-9.00E+00	1252	1253	1272	1271		e	4	pcfr_cs	ttt	0	0	-5.13E+00	1316	1317	1336	1335
e	4	pcfr_cs	ttt	0	0	-7.82E+00	1253	1254	1273	1272		e	4	pcfr_cs	ttt	0	0	-6.12E+00	1317	1318	1337	1336
e	4	pcfr_cs	ttt	0	0	-6.16E+00	1254	1255	1274	1273		e	4	pcfr_cs	ttt	0	0	-6.43E+00	1318	1319	1338	1337
e	4	pcfr_cs	ttt	0	0	-5.32E+00	1255	1256	1275	1274		e	4	pcfr_cs	ttt	0	0	-6.49E+00	1319	1320	1339	1338
e	4	pcfr_cs	ttt	0	0	-5.17E+00	1256	1257	1276	1275		e	4	pcfr_cs	ttt	0	0	-6.68E+00	1320	1321	1340	1339
e	4	pcfr_cs	ttt	0	0	-5.50E+00	1257	1258	1277	1276		e	4	pcfr_cs	ttt	0	0	-7.26E+00	1321	1322	1341	1340
e	4	pcfr_cs	ttt	0	0	-6.22E+00	1258	1259	1278	1277		e	4	pcfr_cs	ttt	0	0	-4.42 1323	1324	1343	1342	
e	4	pcfr_cs	ttt	0	0	-7.12E+00	1259	1260	1279	1278		e	4	pcfr_cs	ttt	0	0	-4.42 1324	1325	1344	1343	
e	4	pcfr_cs	ttt	0	0	-7.71E+00	1260	1261	1280	1279		e	4	pcfr_cs	ttt	0	0	-4.42 1325	1326	1345	1344	
e	4	pcfr_cs	ttt	0	0	-7.86E+00	1261	1262	1281	1280		e	4	pcfr_cs	ttt	0	0	-4.42 1326	1327	1346	1345	
e	4	pcfr_cs	ttt	0	0	-7.86E+00	1262	1263	1282	1281		e	4	pcfr_cs	ttt	0	0	-4.42 1327	1328	1347	1346	
e	4	pcfr_cs	ttt	0	0	-7.92E+00	1263	1264	1283	1282		e	4	pcfr_cs	ttt	0	0	-4.42 1328	1329	1348	1347	
e	4	pcfr_cs	ttt	0	0	-8.09E+00	1264	1265	1284	1283		e	4	pcfr_cs	ttt	0	0	-4.42 1329	1330	1349	1348	
e	4	pcfr_cs	ttt	0	0	-9.40E+00	1266	1267	1286	1285		e	4	pcfr_cs	ttt	0	0	-2.731	1330	1331	1350	1349
e	4	pcfr_cs	ttt	0	0	-9.22E+00	1267	1268	1287	1286		e	4	pcfr_cs	ttt	0	0	-1.276	1331	1332	1351	1350
e	4	pcfr_cs	ttt	0	0	-9.15E+00	1268	1269	1288	1287		e	4	pcfr_cs	ttt	0	0	-1.104	1332	1333	1352	1351
e	4	pcfr_cs	ttt	0	0	-9.14E+00	1269	1270	1289	1288		e	4	pcfr_cs	ttt	0	0	-1.584	1333	1334	1353	1352
e	4	pcfr_cs	ttt	0	0	-9.14E+00	1270	1271	1290	1289		e	4	pcfr_cs	ttt	0	0	-2.588	1334	1335	1354	1353
e	4	pcfr_cs	ttt	0	0	-8.94E+00	1271	1272	1291	1290		e	4	pcfr_cs	ttt	0	0	-3.897	1335	1336	1355	1354
e	4	pcfr_cs	ttt	0	0	-7.64E+00	1272	1273	1292	1291		e	4	pcfr_cs	ttt	0	0	-4.42 1336	1337	1356	1355	
e	4	pcfr_cs	ttt	0	0	-5.51E+00	1273	1274	1293	1292		e	4	pcfr_cs	ttt	0	0	-4.42 1337	1338	1357	1356	

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Trial 1 input file: 23 of 28												Trial 1 input file: 24 of 28											
e	4	pcfr_cs	ttt	0	0	-4.42 1338	1339	1358	1357			v	2056	brfr_cs	-4	-4	0						
e	4	pcfr_cs	ttt	0	0	-4.42 1339	1340	1359	1358			v	2057	brfr_cs	-3.5	-4	0						
e	4	pcfr_cs	ttt	0	0	-4.42 1340	1341	1360	1359			v	2058	brfr_cs	-3	-4	0						

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v 2117 brfr_cs -6 -1.5 0
v 2118 brfr_cs -5.5 -1.5 0
v 2119 brfr_cs -5 -1.5 0
v 2120 brfr_cs -4.5 -1.5 0
v 2121 brfr_cs -4 -1.5 0
v 2122 brfr_cs -3.5 -1.5 0
v 2123 brfr_cs -3 -1.5 0
v 2124 brfr_cs -2.5 -1.5 0
v 2125 brfr_cs -2 -1.5 0
v 2126 brfr_cs -1.5 -1.5 0
v 2127 brfr_cs -1 -1.5 0
v 2128 brfr_cs -0.5 -1.5 0
v 2129 brfr_cs 0 -1.5 0
v 2130 brfr_cs -6 -1 0
v 2131 brfr_cs -5.5 -1 0
v 2132 brfr_cs -5 -1 0
v 2133 brfr_cs -4.5 -1 0
v 2134 brfr_cs -4 -1 0
v 2135 brfr_cs -3.5 -1 0
v 2136 brfr_cs -3 -1 0
v 2137 brfr_cs -2.5 -1 0
v 2138 brfr_cs -2 -1 0
v 2139 brfr_cs -1.5 -1 0
v 2140 brfr_cs -1 -1 0
v 2141 brfr_cs -0.5 -1 0
v 2142 brfr_cs 0 -1 0
v 2143 brfr_cs -6 -0.5 0
v 2144 brfr_cs -5.5 -0.5 0
v 2145 brfr_cs -5 -0.5 0
v 2146 brfr_cs -4.5 -0.5 0
v 2147 brfr_cs -4 -0.5 0
v 2148 brfr_cs -3.5 -0.5 0
v 2149 brfr_cs -3 -0.5 0
v 2150 brfr_cs -2.5 -0.5 0
v 2151 brfr_cs -2 -0.5 0
v 2152 brfr_cs -1.5 -0.5 0
v 2153 brfr_cs -1 -0.5 0
v 2154 brfr_cs -0.5 -0.5 0
v 2155 brfr_cs 0 -0.5 0
v 2156 brfr_cs -6 0 0
v 2157 brfr_cs -5.5 0 0
v 2158 brfr_cs -5 0 0
v 2159 brfr_cs -4.5 0 0
v 2160 brfr_cs -4 0 0
v 2161 brfr_cs -3.5 0 0
v 2162 brfr_cs -3 0 0
v 2163 brfr_cs -2.5 0 0
v 2164 brfr_cs -2 0 0
v 2165 brfr_cs -1.5 0 0
v 2166 brfr_cs -1 0 0
v 2167 brfr_cs -0.5 0 0
v 2168 brfr_cs 0 0 0

*(1) -2 -3 -4
*o name outp eltc csys
*-
o brfr b brfr_cs

e 4 brfr_cs ttt 0 0 -6.99E+00 2000 2001 2014 2013
e 4 brfr_cs ttt 0 0 -7.21E+00 2001 2002 2015 2014
e 4 brfr_cs ttt 0 0 -7.41E+00 2002 2003 2016 2015
e 4 brfr_cs ttt 0 0 -7.58E+00 2003 2004 2017 2016
e 4 brfr_cs ttt 0 0 -7.72E+00 2004 2005 2018 2017
e 4 brfr_cs ttt 0 0 -7.82E+00 2005 2006 2019 2018
e 4 brfr_cs ttt 0 0 -7.90E+00 2006 2007 2020 2019
e 4 brfr_cs ttt 0 0 -7.96E+00 2007 2008 2021 2020
e 4 brfr_cs ttt 0 0 -8.00E+00 2008 2009 2022 2021
e 4 brfr_cs ttt 0 0 -8.03E+00 2009 2010 2023 2022
e 4 brfr_cs ttt 0 0 -8.05E+00 2010 2011 2024 2023
e 4 brfr_cs ttt 0 0 -8.06E+00 2011 2012 2025 2024
e 4 brfr_cs ttt 0 0 -6.75E+00 2013 2014 2027 2026
e 4 brfr_cs ttt 0 0 -6.95E+00 2014 2015 2028 2027
e 4 brfr_cs ttt 0 0 -7.14E+00 2015 2016 2029 2028
e 4 brfr_cs ttt 0 0 -7.30E+00 2016 2017 2030 2029
e 4 brfr_cs ttt 0 0 -7.44E+00 2017 2018 2031 2030
e 4 brfr_cs ttt 0 0 -7.54E+00 2018 2019 2032 2031
e 4 brfr_cs ttt 0 0 -7.63E+00 2019 2020 2033 2032
e 4 brfr_cs ttt 0 0 -7.69E+00 2020 2021 2034 2033
e 4 brfr_cs ttt 0 0 -7.75E+00 2021 2022 2035 2034
e 4 brfr_cs ttt 0 0 -7.78E+00 2022 2023 2036 2035
e 4 brfr_cs ttt 0 0 -7.81E+00 2023 2024 2037 2036
e 4 brfr_cs ttt 0 0 -7.81E+00 2024 2025 2038 2037
e 4 brfr_cs ttt 0 0 -6.64E+00 2026 2027 2040 2039
e 4 brfr_cs ttt 0 0 -6.80E+00 2027 2028 2041 2040
e 4 brfr_cs ttt 0 0 -6.96E+00 2028 2029 2042 2041
e 4 brfr_cs ttt 0 0 -7.10E+00 2029 2030 2043 2042
e 4 brfr_cs ttt 0 0 -7.23E+00 2030 2031 2044 2043
e 4 brfr_cs ttt 0 0 -7.33E+00 2031 2032 2045 2044
e 4 brfr_cs ttt 0 0 -7.41E+00 2032 2033 2046 2045
e 4 brfr_cs ttt 0 0 -7.48E+00 2033 2034 2047 2046
e 4 brfr_cs ttt 0 0 -7.54E+00 2034 2035 2048 2047
e 4 brfr_cs ttt 0 0 -7.59E+00 2035 2036 2049 2048
e 4 brfr_cs ttt 0 0 -7.62E+00 2036 2037 2050 2049
e 4 brfr_cs ttt 0 0 -7.64E+00 2037 2038 2051 2050
e 4 brfr_cs ttt 0 0 -6.66E+00 2039 2040 2053 2052
e 4 brfr_cs ttt 0 0 -6.78E+00 2040 2041 2054 2053
e 4 brfr_cs ttt 0 0 -6.89E+00 2041 2042 2055 2054
e 4 brfr_cs ttt 0 0 -7.00E+00 2042 2043 2056 2055
e 4 brfr_cs ttt 0 0 -7.10E+00 2043 2044 2057 2056
e 4 brfr_cs ttt 0 0 -7.19E+00 2044 2045 2058 2057
e 4 brfr_cs ttt 0 0 -7.27E+00 2045 2046 2059 2058
e 4 brfr_cs ttt 0 0 -7.34E+00 2046 2047 2060 2059
e 4 brfr_cs ttt 0 0 -7.40E+00 2047 2048 2061 2060
e 4 brfr_cs ttt 0 0 -7.45E+00 2048 2049 2062 2061
e 4 brfr_cs ttt 0 0 -7.49E+00 2049 2050 2063 2062
e 4 brfr_cs ttt 0 0 -7.51E+00 2050 2051 2064 2063
e 4 brfr_cs ttt 0 0 -6.77E+00 2052 2053 2066 2065
e 4 brfr_cs ttt 0 0 -6.83E+00 2053 2054 2067 2066
e 4 brfr_cs ttt 0 0 -6.90E+00 2054 2055 2068 2067
e 4 brfr_cs ttt 0 0 -6.97E+00 2055 2056 2069 2068
e 4 brfr_cs ttt 0 0 -7.04E+00 2056 2057 2070 2069
e 4 brfr_cs ttt 0 0 -7.10E+00 2057 2058 2071 2070
e 4 brfr_cs ttt 0 0 -7.17E+00 2058 2059 2072 2071
e 4 brfr_cs ttt 0 0 -7.23E+00 2059 2060 2073 2072
e 4 brfr_cs ttt 0 0 -7.28E+00 2060 2061 2074 2073
e 4 brfr_cs ttt 0 0 -7.34E+00 2061 2062 2075 2074
e 4 brfr_cs ttt 0 0 -7.39E+00 2062 2063 2076 2075
e 4 brfr_cs ttt 0 0 -7.42E+00 2063 2064 2077 2076
e 4 brfr_cs ttt 0 0 -6.88E+00 2065 2066 2079 2078

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e 4 brfr_cs ttt 0 0 -6.88E+00 2066 2067 2080 2079
e 4 brfr_cs ttt 0 0 -6.89E+00 2067 2068 2081 2080
e 4 brfr_cs ttt 0 0 -6.92E+00 2068 2069 2082 2081
e 4 brfr_cs ttt 0 0 -6.95E+00 2069 2070 2083 2082
e 4 brfr_cs ttt 0 0 -6.99E+00 2070 2071 2084 2083
e 4 brfr_cs ttt 0 0 -7.04E+00 2071 2072 2085 2084
e 4 brfr_cs ttt 0 0 -7.10E+00 2072 2073 2086 2085
e 4 brfr_cs ttt 0 0 -7.16E+00 2073 2074 2087 2086
e 4 brfr_cs ttt 0 0 -7.22E+00 2074 2075 2088 2087
e 4 brfr_cs ttt 0 0 -7.27E+00 2075 2076 2089 2088
e 4 brfr_cs ttt 0 0 -7.32E+00 2076 2077 2090 2089
e 4 brfr_cs ttt 0 0 -6.93E+00 2078 2079 2092 2091
e 4 brfr_cs ttt 0 0 -6.86E+00 2079 2080 2093 2092
e 4 brfr_cs ttt 0 0 -6.81E+00 2080 2081 2094 2093
e 4 brfr_cs ttt 0 0 -6.79E+00 2081 2082 2095 2094
e 4 brfr_cs ttt 0 0 -6.78E+00 2082 2083 2096 2095
e 4 brfr_cs ttt 0 0 -6.80E+00 2083 2084 2097 2096
e 4 brfr_cs ttt 0 0 -6.83E+00 2084 2085 2098 2097
e 4 brfr_cs ttt 0 0 -6.88E+00 2085 2086 2099 2098
e 4 brfr_cs ttt 0 0 -6.94E+00 2086 2087 2100 2099
e 4 brfr_cs ttt 0 0 -7.00E+00 2087 2088 2101 2100
e 4 brfr_cs ttt 0 0 -7.07E+00 2088 2089 2102 2101
e 4 brfr_cs ttt 0 0 -7.13E+00 2089 2090 2103 2102
e 4 brfr_cs ttt 0 0 -6.88E+00 2091 2092 2105 2104
e 4 brfr_cs ttt 0 0 -6.74E+00 2092 2093 2106 2105
e 4 brfr_cs ttt 0 0 -6.61E+00 2093 2094 2107 2106
e 4 brfr_cs ttt 0 0 -6.52E+00 2094 2095 2108 2107
e 4 brfr_cs ttt 0 0 -6.47E+00 2095 2096 2109 2108
e 4 brfr_cs ttt 0 0 -6.46E+00 2096 2097 2110 2109
e 4 brfr_cs ttt 0 0 -6.47E+00 2097 2098 2111 2110
e 4 brfr_cs ttt 0 0 -6.51E+00 2098 2099 2112 2111
e 4 brfr_cs ttt 0 0 -6.57E+00 2099 2100 2113 2112
e 4 brfr_cs ttt 0 0 -6.65E+00 2100 2101 2114 2113
e 4 brfr_cs ttt 0 0 -6.74E+00 2101 2102 2115 2114
e 4 brfr_cs ttt 0 0 -6.82E+00 2102 2103 2116 2115
e 4 brfr_cs ttt 0 0 -6.74E+00 2104 2105 2118 2117
e 4 brfr_cs ttt 0 0 -6.49E+00 2105 2106 2119 2118
e 4 brfr_cs ttt 0 0 -6.27E+00 2106 2107 2120 2119
e 4 brfr_cs ttt 0 0 -6.11E+00 2107 2108 2121 2120
e 4 brfr_cs ttt 0 0 -6.00E+00 2108 2109 2122 2121
e 4 brfr_cs ttt 0 0 -5.95E+00 2109 2110 2123 2122
e 4 brfr_cs ttt 0 0 -5.94E+00 2110 2111 2124 2123
e 4 brfr_cs ttt 0 0 -5.98E+00 2111 2112 2125 2124
e 4 brfr_cs ttt 0 0 -6.05E+00 2112 2113 2126 2125
e 4 brfr_cs ttt 0 0 -6.16E+00 2113 2114 2127 2126
e 4 brfr_cs ttt 0 0 -6.29E+00 2114 2115 2128 2127
e 4 brfr_cs ttt 0 0 -6.41E+00 2115 2116 2129 2128
e 4 brfr_cs ttt 0 0 -6.52E+00 2117 2118 2131 2130
e 4 brfr_cs ttt 0 0 -6.08E+00 2118 2119 2132 2131
e 4 brfr_cs ttt 0 0 -5.73E+00 2119 2120 2133 2132
e 4 brfr_cs ttt 0 0 -5.49E+00 2120 2121 2134 2133
e 4 brfr_cs ttt 0 0 -5.32E+00 2121 2122 2135 2134
e 4 brfr_cs ttt 0 0 -5.24E+00 2122 2123 2136 2135
e 4 brfr_cs ttt 0 0 -5.21E+00 2123 2124 2137 2136
e 4 brfr_cs ttt 0 0 -5.25E+00 2124 2125 2138 2137
e 4 brfr_cs ttt 0 0 -5.34E+00 2125 2126 2139 2138
e 4 brfr_cs ttt 0 0 -5.51E+00 2126 2127 2140 2139
e 4 brfr_cs ttt 0 0 -5.75E+00 2127 2128 2141 2140
e 4 brfr_cs ttt 0 0 -6.01E+00 2128 2129 2142 2141
e 4 brfr_cs ttt 0 0 -6.17E+00 2130 2131 2144 2143
e 4 brfr_cs ttt 0 0 -5.36E+00 2131 2132 2145 2144

e 4 brfr_cs ttt 0 0 -4.83E+00 2132 2133 2146 2145
e 4 brfr_cs ttt 0 0 -4.49E+00 2133 2134 2147 2146
e 4 brfr_cs ttt 0 0 -4.29E+00 2134 2135 2148 2147
e 4 brfr_cs ttt 0 0 -4.18E+00 2135 2136 2149 2148
e 4 brfr_cs ttt 0 0 -4.15E+00 2136 2137 2150 2149
e 4 brfr_cs ttt 0 0 -4.19E+00 2137 2138 2151 2150
e 4 brfr_cs ttt 0 0 -4.33E+00 2138 2139 2152 2151
e 4 brfr_cs ttt 0 0 -4.60E+00 2139 2140 2153 2152
e 4 brfr_cs ttt 0 0 -5.07E+00 2140 2141 2154 2153
e 4 brfr_cs ttt 0 0 -5.74E+00 2141 2142 2155 2154
e 4 brfr_cs ttt 0 0 -4.86E+00 2143 2144 2157 2156
e 4 brfr_cs ttt 0 0 -3.41E+00 2144 2145 2158 2157
e 4 brfr_cs ttt 0 0 -2.80E+00 2145 2146 2159 2158
e 4 brfr_cs ttt 0 0 -2.46E+00 2146 2147 2160 2159
e 4 brfr_cs ttt 0 0 -2.28E+00 2147 2148 2161 2160
e 4 brfr_cs ttt 0 0 -2.18E+00 2148 2149 2162 2161
e 4 brfr_cs ttt 0 0 -2.15E+00 2149 2150 2163 2162
e 4 brfr_cs ttt 0 0 -2.19E+00 2150 2151 2164 2163
e 4 brfr_cs ttt 0 0 -2.32E+00 2151 2152 2165 2164
e 4 brfr_cs ttt 0 0 -2.61E+00 2152 2153 2166 2165
e 4 brfr_cs ttt 0 0 -3.25E+00 2153 2154 2167 2166
e 4 brfr_cs ttt 0 0 -4.87E+00 2154 2155 2168 2167

end *(OBJECTS/ELEMENTS/VERTICES)

OUTPUT FROM: poly3d-c, version Beta-Release
COMPILED: Aug 11 1999
INPUT FILE: dunne_etal_trial1.in
TITLE1: Solitario & paint brush & north segment of bow ridge
TITLE2: rectangular faults, ttt=00x
ELASTIC CONSTANTS:
Shear Modulus = 30000.000000
Poisson's Ratio = 0.250000
Young's Modulus = 75000.000000
Bulk Modulus = 50000.000000
Lame's Lambda = 30000.000000
NULL OUTPUT VALUE = -999.000000
CONDITION NUMBER = 406.797334

*this is the fault mesh, rotated and translated into true position

ELEMENT GEOMETRY (organized by object)

COORD SYS: global

*Solitario Canyon Fault (Rectangle)

*x1, x2, x3 positions in km

OBJECT: scfr

ELT Vertex Name

	X1	X2	X3
1 0	-4.3003	6.7500	-5.7859
1 1	-4.3003	5.7500	-5.7859
1 18	-4.2046	5.7500	-5.4285
1 17	-4.2046	6.7500	-5.4285
1 0	-4.3003	6.7500	-5.7859
2 1	-4.3003	5.7500	-5.7859
2 2	-4.3003	4.7500	-5.7859
2 19	-4.2046	4.7500	-5.4285
2 18	-4.2046	5.7500	-5.4285
2 1	-4.3003	5.7500	-5.7859
3 2	-4.3003	4.7500	-5.7859
3 3	-4.3003	3.7500	-5.7859
3 20	-4.2046	3.7500	-5.4285
3 19	-4.2046	4.7500	-5.4285
3 2	-4.3003	4.7500	-5.7859
4 3	-4.3003	3.7500	-5.7859
4 4	-4.3003	2.7500	-5.7859
4 21	-4.2046	2.7500	-5.4285
4 20	-4.2046	3.7500	-5.4285
4 3	-4.3003	3.7500	-5.7859
5 4	-4.3003	2.7500	-5.7859
5 5	-4.3003	1.7500	-5.7859
5 22	-4.2046	1.7500	-5.4285
5 21	-4.2046	2.7500	-5.4285
5 4	-4.3003	2.7500	-5.7859
6 5	-4.3003	1.7500	-5.7859
6 6	-4.3003	0.7500	-5.7859
6 23	-4.2046	0.7500	-5.4285
6 22	-4.2046	1.7500	-5.4285
6 5	-4.3003	1.7500	-5.7859
7 6	-4.3003	0.7500	-5.7859
7 7	-4.3003	-0.2500	-5.7859
7 24	-4.2046	-0.2500	-5.4285
7 23	-4.2046	0.7500	-5.4285
7 6	-4.3003	0.7500	-5.7859
8 7	-4.3003	-0.2500	-5.7859
8 8	-4.3003	-1.2500	-5.7859
8 25	-4.2046	-1.2500	-5.4285
8 24	-4.2046	-0.2500	-5.4285
8 7	-4.3003	-0.2500	-5.7859
9 8	-4.3003	-1.2500	-5.7859
9 9	-4.3003	-2.2500	-5.7859
9 26	-4.2046	-2.2500	-5.4285
9 25	-4.2046	-1.2500	-5.4285
9 8	-4.3003	-1.2500	-5.7859

Solitario Canyon
Fault mesh

trial 1 output: 1 of 137

10 9	-4.3003	-2.2500	-5.7859
10 10	-4.3003	-3.2500	-5.7859
10 27	-4.2046	-3.2500	-5.4285
10 26	-4.2046	-2.2500	-5.4285
10 9	-4.3003	-2.2500	-5.7859
11 10	-4.3003	-3.2500	-5.7859
11 11	-4.3003	-4.2500	-5.7859
11 28	-4.2046	-4.2500	-5.4285
11 27	-4.2046	-3.2500	-5.4285
11 10	-4.3003	-3.2500	-5.7859
12 11	-4.3003	-4.2500	-5.7859
12 12	-4.3003	-5.2500	-5.7859
12 29	-4.2046	-5.2500	-5.4285
12 28	-4.2046	-4.2500	-5.4285
12 11	-4.3003	-4.2500	-5.7859
13 12	-4.3003	-5.2500	-5.7859
13 13	-4.3003	-6.2500	-5.7859
13 30	-4.2046	-6.2500	-5.4285
13 29	-4.2046	-5.2500	-5.4285
13 12	-4.3003	-5.2500	-5.7859
14 13	-4.3003	-6.2500	-5.7859
14 14	-4.3003	-7.2500	-5.7859
14 31	-4.2046	-7.2500	-5.4285
14 30	-4.2046	-6.2500	-5.4285
14 13	-4.3003	-6.2500	-5.7859
15 14	-4.3003	-7.2500	-5.7859
15 15	-4.3003	-8.2500	-5.7859
15 32	-4.2046	-8.2500	-5.4285
15 31	-4.2046	-7.2500	-5.4285
15 14	-4.3003	-7.2500	-5.7859
16 15	-4.3003	-8.2500	-5.7859
16 16	-4.3003	-9.2500	-5.7859
16 33	-4.2046	-9.2500	-5.4285
16 32	-4.2046	-8.2500	-5.4285
16 15	-4.3003	-8.2500	-5.7859
17 17	-4.2046	6.7500	-5.4285
17 18	-4.2046	5.7500	-5.4285
17 35	-4.1062	5.7500	-5.0615
17 34	-4.1062	6.7500	-5.0615
17 17	-4.2046	6.7500	-5.4285
18 18	-4.2046	5.7500	-5.4285
18 19	-4.2046	4.7500	-5.4285
18 36	-4.1062	4.7500	-5.0615
18 35	-4.1062	5.7500	-5.0615
18 18	-4.2046	5.7500	-5.4285
19 19	-4.2046	4.7500	-5.4285
19 20	-4.2046	3.7500	-5.4285
19 37	-4.1062	3.7500	-5.0615
19 36	-4.1062	4.7500	-5.0615
19 19	-4.2046	4.7500	-5.4285
20 20	-4.2046	3.7500	-5.4285
20 21	-4.2046	2.7500	-5.4285
20 38	-4.1062	2.7500	-5.0615
20 37	-4.1062	3.7500	-5.0615
20 20	-4.2046	3.7500	-5.4285
21 21	-4.2046	2.7500	-5.4285
21 22	-4.2046	1.7500	-5.4285
21 39	-4.1062	1.7500	-5.0615
21 38	-4.1062	2.7500	-5.0615
21 21	-4.2046	2.7500	-5.4285
22 22	-4.2046	1.7500	-5.4285
22 23	-4.2046	0.7500	-5.4285
22 40	-4.1062	0.7500	-5.0615
22 39	-4.1062	1.7500	-5.0615

trial 1 output: 2 of 137

trial 1 output: 3 of 137

22 22	-4.2046	1.7500	-5.4285
23 23	-4.2046	0.7500	-5.4285
23 24	-4.2046	-0.2500	-5.4285
23 41	-4.1062	-0.2500	-5.0615
23 23	-4.1062	0.7500	-5.0615
23 23	-4.2046	0.7500	-5.4285
24 24	-4.2046	-0.2500	-5.4285
24 25	-4.2046	-1.2500	-5.4285
24 42	-4.1062	-1.2500	-5.0615
24 41	-4.1062	-0.2500	-5.0615
24 24	-4.2046	-0.2500	-5.4285
25 25	-4.2046	-1.2500	-5.4285
25 26	-4.2046	-2.2500	-5.4285
25 43	-4.1062	-2.2500	-5.0615
25 42	-4.1062	-1.2500	-5.0615
25 25	-4.2046	-1.2500	-5.4285
26 26	-4.2046	-2.2500	-5.4285
26 27	-4.2046	-3.2500	-5.4285
26 44	-4.1062	-3.2500	-5.0615
26 43	-4.1062	-2.2500	-5.0615
26 26	-4.2046	-2.2500	-5.4285
27 27	-4.2046	-3.2500	-5.4285
27 28	-4.2046	-4.2500	-5.4285
27 45	-4.1062	-4.2500	-5.0615
27 44	-4.1062	-3.2500	-5.0615
27 27	-4.2046	-3.2500	-5.4285
28 28	-4.2046	-4.2500	-5.4285
28 29	-4.2046	-5.2500	-5.4285
28 46	-4.1062	-5.2500	-5.0615
28 45	-4.1062	-4.2500	-5.0615
28 28	-4.2046	-4.2500	-5.4285
29 29	-4.2046	-5.2500	-5.4285
29 30	-4.2046	-6.2500	-5.4285
29 47	-4.1062	-6.2500	-5.0615
29 46	-4.1062	-5.2500	-5.0615
29 29	-4.2046	-5.2500	-5.4285
30 30	-4.2046	-6.2500	-5.4285
30 31	-4.2046	-7.2500	-5.4285
30 48	-4.1062	-7.2500	-5.0615
30 47	-4.1062	-6.2500	-5.0615
30 30	-4.2046	-6.2500	-5.4285
31 31	-4.2046	-7.2500	-5.4285
31 32	-4.2046	-8.2500	-5.4285
31 49	-4.1062	-8.2500	-5.0615
31 48	-4.1062	-7.2500	-5.0615
31 31	-4.2046	-7.2500	-5.4285
32 32	-4.2046	-8.2500	-5.4285
32 33	-4.2046	-9.2500	-5.4285
32 50	-4.1062	-9.2500	-5.0615
32 49	-4.1062	-8.2500	-5.0615
32 32	-4.2046	-8.2500	-5.4285
33 34	-4.1062	6.7500	-5.0615
33 35	-4.1062	5.7500	-5.0615
33 52	-4.0104	5.7500	-4.7041
33 51	-4.0104	6.7500	-4.7041
33 34	-4.1062	6.7500	-5.0615
34 35	-4.1062	5.7500	-5.0615
34 36	-4.1062	4.7500	-5.0615
34 53	-4.0104	4.7500	-4.7041
34 52	-4.0104	5.7500	-4.7041
34 35	-4.1062	5.7500	-5.0615
35 36	-4.1062	4.7500	-5.0615
35 37	-4.1062	3.7500	-5.0615
35 54	-4.0104	3.7500	-4.7041

trial 1 output: 4 of 137

35 53	-4.0104	4.7500	-4.7041
35 36	-4.1062	4.7500	-5.0615
36 37	-4.1062	3.7500	-5.0615
36 38	-4.1062	2.7500	-5.0615
36 55	-4.0104	2.7500	-4.7041
36 54	-4.0104	3.7500	-4.7041
36 37	-4.1062	3.7500	-5.0615
37 38	-4.1062	2.7500	-5.0615
37 39	-4.1062	1.7500	-5.0615
37 56	-4.0104	1.7500	-4.7041
37 55	-4.0104	2.7500	-4.7041
37 38	-4.1062	2.7500	-5.0615
38 39	-4.1062	1.7500	-5.0615
38 40	-4.1062	0.7500	-5.0615
38 57	-4.0104	0.7500	-4.7041
38 56	-4.0104	1.7500	-4.7041
38 39	-4.1062	1.7500	-5.0615
39 40	-4.1062	0.7500	-5.0615
39 41	-4.1062	-0.2500	-5.0615
39 58	-4.0104	-0.2500	-4.7041
39 57	-4.0104	0.7500	-4.7041
39 40	-4.1062	0.7500	-5.0615
40 41	-4.1062	-0.2500	-5.0615
40 42	-4.1062	-1.2500	-5.0615
40 59	-4.0104	-1.2500	-4.7041
40 58	-4.0104	-0.2500	-4.7041
40 41	-4.1062	-0.2500	-5.0615
41 42	-4.1062	-1.2500	-5.0615
41 43	-4.1062	-2.2500	-5.0615
41 60	-4.0104	-2.2500	-4.7041
41 59	-4.0104	-1.2500	-4.7041
41 42	-4.1062	-1.2500	-5.0615
42 43	-4.1062	-2.2500	-5.0615
42 44	-4.1062	-3.2500	-5.0615
42 61	-4.0104	-3.2500	-4.7041
42 60	-4.0104	-2.2500	-4.7041
42 43	-4.1062	-2.2500	-5.0615
43 44	-4.1062	-3.2500	-5.0615
43 45	-4.1062	-4.2500	-5.0615
43 62	-4.0104	-4.2500	-4.7041
43 61	-4.0104	-3.2500	-4.7041
43 44	-4.1062	-3.2500	-5.0615
44 45	-4.1062	-4.2500	-5.0615
44 46	-4.1062	-5.2500	-5.0615
44 63	-4.0104	-5.2500	-4.7041
44 62	-4.0104	-4.2500	-4.7041
44 45	-4.1062	-4.2500	-5.0615
45 46	-4.1062	-5.2500	-5.0615
45 47	-4.1062	-6.2500	-5.0615
45 64	-4.0104	-6.2500	-4.7041
45 63	-4.0104	-5.2500	-4.7041
45 46	-4.1062	-5.2500	-5.0615
46 47	-4.1062	-6.2500	-5.0615
46 48	-4.1062	-7.2500	-5.0615
46 65	-4.0104	-7.2500	-4.7041
46 64	-4.0104	-6.2500	-4.7041
46 47	-4.1062	-6.2500	-5.0615
47 48	-4.1062	-7.2500	-5.0615
47 49	-4.1062	-8.2500	-5.0615
47 66	-4.0104	-8.2500	-4.7041
47 65	-4.0104	-7.2500	-4.7041
47 48	-4.1062	-7.2500	-5.0615
48 49	-4.1062	-8.2500	-5.0615
48 50	-4.1062	-9.2500	-5.0615

trial 1 output: 5 of 137

48 67 -4.0104 -9.2500 -4.7041
48 66 -4.0104 -9.2500 -4.7041
48 49 -4.1062 -9.2500 -5.0615
49 51 -4.0104 6.7500 -4.7041
49 52 -4.0104 5.7500 -4.7041
49 69 -3.9121 5.7500 -4.3370
49 68 -3.9121 6.7500 -4.3370
49 81 -4.0104 6.7500 -4.7041
50 52 -4.0104 5.7500 -4.7041
50 53 -4.0104 4.7500 -4.7041
50 70 -3.9121 4.7500 -4.3370
50 69 -3.9121 5.7500 -4.3370
50 52 -4.0104 5.7500 -4.7041
51 53 -4.0104 4.7500 -4.7041
51 54 -4.0104 3.7500 -4.7041
51 71 -3.9121 3.7500 -4.3370
51 70 -3.9121 4.7500 -4.3370
51 53 -4.0104 4.7500 -4.7041
52 54 -4.0104 3.7500 -4.7041
52 55 -4.0104 2.7500 -4.7041
52 72 -3.9121 2.7500 -4.3370
52 71 -3.9121 3.7500 -4.3370
52 54 -4.0104 3.7500 -4.7041
53 55 -4.0104 2.7500 -4.7041
53 56 -4.0104 1.7500 -4.7041
53 73 -3.9121 1.7500 -4.3370
53 72 -3.9121 2.7500 -4.3370
53 55 -4.0104 2.7500 -4.7041
54 56 -4.0104 1.7500 -4.7041
54 57 -4.0104 0.7500 -4.7041
54 74 -3.9121 0.7500 -4.3370
54 73 -3.9121 1.7500 -4.3370
54 56 -4.0104 1.7500 -4.7041
55 57 -4.0104 0.7500 -4.7041
55 58 -4.0104 -0.2500 -4.7041
55 75 -3.9121 -0.2500 -4.3370
55 74 -3.9121 0.7500 -4.3370
55 57 -4.0104 0.7500 -4.7041
56 58 -4.0104 -0.2500 -4.7041
56 59 -4.0104 -1.2500 -4.7041
56 76 -3.9121 -1.2500 -4.3370
56 75 -3.9121 -0.2500 -4.3370
56 58 -4.0104 -0.2500 -4.7041
57 59 -4.0104 -1.2500 -4.7041
57 60 -4.0104 -2.2500 -4.7041
57 77 -3.9121 -2.2500 -4.3370
57 76 -3.9121 -1.2500 -4.3370
57 59 -4.0104 -1.2500 -4.7041
58 60 -4.0104 -2.2500 -4.7041
58 61 -4.0104 -3.2500 -4.7041
58 78 -3.9121 -3.2500 -4.3370
58 77 -3.9121 -2.2500 -4.3370
58 60 -4.0104 -2.2500 -4.7041
59 61 -4.0104 -3.2500 -4.7041
59 62 -4.0104 -4.2500 -4.7041
59 79 -3.9121 -4.2500 -4.3370
59 78 -3.9121 -3.2500 -4.3370
59 61 -4.0104 -3.2500 -4.7041
60 62 -4.0104 -4.2500 -4.7041
60 63 -4.0104 -5.2500 -4.7041
60 80 -3.9121 -5.2500 -4.3370
60 79 -3.9121 -4.2500 -4.3370
60 62 -4.0104 -4.2500 -4.7041
61 63 -4.0104 -5.2500 -4.7041

trial 1 output: 6 of 137

61 64 -4.0104 -6.2500 -4.7041
61 81 -3.9121 -6.2500 -4.3370
61 80 -3.9121 -5.2500 -4.3370
61 63 -4.0104 -5.2500 -4.7041
62 64 -4.0104 -6.2500 -4.7041
62 65 -4.0104 -7.2500 -4.7041
62 82 -3.9121 -7.2500 -4.3370
62 81 -3.9121 -6.2500 -4.3370
62 64 -4.0104 -6.2500 -4.7041
63 65 -4.0104 -7.2500 -4.7041
63 66 -4.0104 -8.2500 -4.7041
63 83 -3.9121 -8.2500 -4.3370
63 82 -3.9121 -7.2500 -4.3370
63 65 -4.0104 -7.2500 -4.7041
64 66 -4.0104 -8.2500 -4.7041
64 67 -4.0104 -9.2500 -4.7041
64 84 -3.9121 -9.2500 -4.3370
64 83 -3.9121 -8.2500 -4.3370
64 66 -4.0104 -8.2500 -4.7041
65 68 -3.9121 6.7500 -4.3370
65 69 -3.9121 5.7500 -4.3370
65 86 -3.8163 5.7500 -3.9796
65 85 -3.8163 6.7500 -3.9796
65 68 -3.9121 6.7500 -4.3370
66 69 -3.9121 5.7500 -4.3370
66 87 -3.8163 4.7500 -3.9796
66 86 -3.8163 5.7500 -3.9796
66 69 -3.9121 5.7500 -4.3370
67 70 -3.9121 4.7500 -4.3370
67 71 -3.9121 3.7500 -4.3370
67 88 -3.8163 3.7500 -3.9796
67 87 -3.8163 4.7500 -3.9796
67 70 -3.9121 4.7500 -4.3370
68 71 -3.9121 3.7500 -4.3370
68 72 -3.9121 2.7500 -4.3370
68 89 -3.8163 2.7500 -3.9796
68 88 -3.8163 3.7500 -3.9796
68 71 -3.9121 3.7500 -4.3370
69 72 -3.9121 2.7500 -4.3370
69 73 -3.9121 1.7500 -4.3370
69 90 -3.8163 1.7500 -3.9796
69 89 -3.8163 2.7500 -3.9796
69 72 -3.9121 2.7500 -4.3370
70 73 -3.9121 1.7500 -4.3370
70 74 -3.9121 0.7500 -4.3370
70 91 -3.8163 0.7500 -3.9796
70 90 -3.8163 1.7500 -3.9796
70 73 -3.9121 1.7500 -4.3370
71 74 -3.9121 0.7500 -4.3370
71 75 -3.9121 -0.2500 -4.3370
71 92 -3.8163 -0.2500 -3.9796
71 91 -3.8163 0.7500 -3.9796
71 74 -3.9121 0.7500 -4.3370
72 75 -3.9121 -0.2500 -4.3370
72 76 -3.9121 -1.2500 -4.3370
72 93 -3.8163 -1.2500 -3.9796
72 92 -3.8163 -0.2500 -3.9796
72 75 -3.9121 -0.2500 -4.3370
73 76 -3.9121 -1.2500 -4.3370
73 77 -3.9121 -2.2500 -4.3370
73 94 -3.8163 -2.2500 -3.9796
73 93 -3.8163 -1.2500 -3.9796
73 76 -3.9121 -1.2500 -4.3370

trial 1 output: 7 of 137

74 77 -3.9121 -2.2500 -4.3370
74 78 -3.9121 -3.2500 -4.3370
74 95 -3.8163 -3.2500 -3.9796
74 94 -3.8163 -2.2500 -3.9796
74 77 -3.9121 -2.2500 -4.3370
75 78 -3.9121 -3.2500 -4.3370
75 79 -3.9121 -4.2500 -4.3370
75 96 -3.8163 -4.2500 -3.9796
75 95 -3.8163 -3.2500 -3.9796
75 78 -3.9121 -3.2500 -4.3370
76 79 -3.9121 -4.2500 -4.3370
76 80 -3.9121 -5.2500 -4.3370
76 97 -3.8163 -5.2500 -3.9796
76 96 -3.8163 -4.2500 -3.9796
76 79 -3.9121 -4.2500 -4.3370
77 80 -3.9121 -5.2500 -4.3370
77 81 -3.9121 -6.2500 -4.3370
77 98 -3.8163 -6.2500 -3.9796
77 97 -3.8163 -5.2500 -3.9796
77 80 -3.9121 -5.2500 -4.3370
78 81 -3.9121 -6.2500 -4.3370
78 82 -3.9121 -7.2500 -4.3370
78 99 -3.8163 -7.2500 -3.9796
78 98 -3.8163 -6.2500 -3.9796
78 81 -3.9121 -6.2500 -4.3370
79 82 -3.9121 -7.2500 -4.3370
79 83 -3.9121 -8.2500 -4.3370
79 100 -3.8163 -8.2500 -3.9796
79 99 -3.8163 -7.2500 -3.9796
79 82 -3.9121 -7.2500 -4.3370
80 83 -3.9121 -8.2500 -4.3370
80 84 -3.9121 -9.2500 -4.3370
80 101 -3.8163 -9.2500 -3.9796
80 100 -3.8163 -8.2500 -3.9796
80 83 -3.9121 -8.2500 -4.3370
81 85 -3.8163 6.7500 -3.9796
81 86 -3.8163 5.7500 -3.9796
81 103 -3.7206 5.7500 -3.6222
81 102 -3.7206 6.7500 -3.6222
81 85 -3.8163 6.7500 -3.9796
82 86 -3.8163 5.7500 -3.9796
82 87 -3.8163 4.7500 -3.9796
82 104 -3.7206 4.7500 -3.6222
82 103 -3.7206 5.7500 -3.6222
82 86 -3.8163 5.7500 -3.9796
83 87 -3.8163 4.7500 -3.9796
83 88 -3.8163 3.7500 -3.9796
83 105 -3.7206 3.7500 -3.6222
83 104 -3.7206 4.7500 -3.6222
83 87 -3.8163 4.7500 -3.9796
84 88 -3.8163 3.7500 -3.9796
84 89 -3.8163 2.7500 -3.9796
84 106 -3.7206 2.7500 -3.6222
84 105 -3.7206 3.7500 -3.6222
84 88 -3.8163 3.7500 -3.9796
85 89 -3.8163 2.7500 -3.9796
85 90 -3.8163 1.7500 -3.9796
85 107 -3.7206 1.7500 -3.6222
85 106 -3.7206 2.7500 -3.6222
85 89 -3.8163 2.7500 -3.9796
86 90 -3.8163 1.7500 -3.9796
86 91 -3.8163 0.7500 -3.9796
86 108 -3.7206 0.7500 -3.6222
86 107 -3.7206 1.7500 -3.6222
86 90 -3.8163 1.7500 -3.9796

trial 1 output: 8 of 137

87 91 -3.8163 0.7500 -3.9796
87 92 -3.8163 -0.2500 -3.9796
87 109 -3.7206 -0.2500 -3.6222
87 108 -3.7206 0.7500 -3.6222
87 91 -3.8163 0.7500 -3.9796
88 92 -3.8163 -0.2500 -3.9796
88 93 -3.8163 -1.2500 -3.9796
88 110 -3.7206 -1.2500 -3.6222
88 109 -3.7206 -0.2500 -3.6222
88 92 -3.8163 -0.2500 -3.9796
89 93 -3.8163 -1.2500 -3.9796
89 94 -3.8163 -2.2500 -3.9796
89 111 -3.7206 -2.2500 -3.6222
89 110 -3.7206 -1.2500 -3.6222
89 93 -3.8163 -1.2500 -3.9796
90 94 -3.8163 -2.2500 -3.9796
90 95 -3.8163 -3.2500 -3.9796
90 112 -3.7206 -3.2500 -3.6222
90 111 -3.7206 -2.2500 -3.6222
90 94 -3.8163 -2.2500 -3.9796
91 95 -3.8163 -3.2500 -3.9796
91 96 -3.8163 -4.2500 -3.9796
91 113 -3.7206 -4.2500 -3.6222
91 112 -3.7206 -3.2500 -3.6222
91 95 -3.8163 -3.2500 -3.9796
92 96 -3.8163 -4.2500 -3.9796
92 97 -3.8163 -5.2500 -3.9796
92 114 -3.7206 -5.2500 -3.6222
92 113 -3.7206 -4.2500 -3.6222
92 96 -3.8163 -4.2500 -3.9796
93 97 -3.8163 -5.2500 -3.9796
93 98 -3.8163 -6.2500 -3.9796
93 115 -3.7206 -6.2500 -3.6222
93 114 -3.7206 -5.2500 -3.6222
93 97 -3.8163 -5.2500 -3.9796
94 98 -3.8163 -6.2500 -3.9796
94 99 -3.8163 -7.2500 -3.9796
94 116 -3.7206 -7.2500 -3.6222
94 115 -3.7206 -6.2500 -3.6222
94 98 -3.8163 -6.2500 -3.9796
95 99 -3.8163 -7.2500 -3.9796
95 100 -3.8163 -8.2500 -3.9796
95 117 -3.7206 -8.2500 -3.6222
95 116 -3.7206 -7.2500 -3.6222
95 99 -3.8163 -7.2500 -3.9796
96 100 -3.8163 -8.2500 -3.9796
96 101 -3.8163 -9.2500 -3.9796
96 118 -3.7206 -9.2500 -3.6222
96 117 -3.7206 -8.2500 -3.6222
96 100 -3.8163 -8.2500 -3.9796
97 102 -3.7206 6.7500 -3.6222
97 103 -3.7206 5.7500 -3.6222
97 120 -3.6222 5.7500 -3.2552
97 119 -3.6222 6.7500 -3.2552
97 102 -3.7206 6.7500 -3.6222
98 103 -3.7206 5.7500 -3.6222
98 104 -3.7206 4.7500 -3.6222
98 121 -3.6222 4.7500 -3.2552
98 120 -3.6222 5.7500 -3.2552
98 103 -3.7206 5.7500 -3.6222
99 104 -3.7206 4.7500 -3.6222
99 105 -3.7206 3.7500 -3.6222
99 122 -3.6222 3.7500 -3.2552
99 121 -3.6222 4.7500 -3.2552

trial 1 output: 9 of 137

99 104	-3.7206	4.7500	-3.6222
100 105	-3.7206	3.7500	-3.6222
100 105	-3.7206	2.7500	-3.6222
100 123	-3.6222	2.7500	-3.2552
100 122	-3.6222	3.7500	-3.2552
100 105	-3.7206	3.7500	-3.6222
101 106	-3.7206	2.7500	-3.6222
101 107	-3.7206	1.7500	-3.6222
101 124	-3.6222	1.7500	-3.2552
101 123	-3.6222	2.7500	-3.2552
101 106	-3.7206	2.7500	-3.6222
102 107	-3.7206	1.7500	-3.6222
102 108	-3.7206	0.7500	-3.6222
102 125	-3.6222	0.7500	-3.2552
102 124	-3.6222	1.7500	-3.2552
102 107	-3.7206	1.7500	-3.6222
103 108	-3.7206	0.7500	-3.6222
103 109	-3.7206	-0.2500	-3.6222
103 126	-3.6222	-0.2500	-3.2552
103 125	-3.6222	0.7500	-3.2552
103 108	-3.7206	0.7500	-3.6222
104 109	-3.7206	-0.2500	-3.6222
104 110	-3.7206	-1.2500	-3.6222
104 127	-3.6222	-1.2500	-3.2552
104 126	-3.6222	-0.2500	-3.2552
104 109	-3.7206	-0.2500	-3.6222
105 110	-3.7206	-1.2500	-3.6222
105 111	-3.7206	-2.2500	-3.6222
105 128	-3.6222	-2.2500	-3.2552
105 127	-3.6222	-1.2500	-3.2552
105 110	-3.7206	-1.2500	-3.6222
106 111	-3.7206	-2.2500	-3.6222
106 112	-3.7206	-3.2500	-3.6222
106 129	-3.6222	-3.2500	-3.2552
106 128	-3.6222	-2.2500	-3.2552
106 111	-3.7206	-2.2500	-3.6222
107 112	-3.7206	-3.2500	-3.6222
107 113	-3.7206	-4.2500	-3.6222
107 130	-3.6222	-4.2500	-3.2552
107 129	-3.6222	-3.2500	-3.2552
107 112	-3.7206	-3.2500	-3.6222
108 113	-3.7206	-4.2500	-3.6222
108 114	-3.7206	-5.2500	-3.6222
108 131	-3.6222	-5.2500	-3.2552
108 130	-3.6222	-4.2500	-3.2552
108 113	-3.7206	-4.2500	-3.6222
109 114	-3.7206	-5.2500	-3.6222
109 115	-3.7206	-6.2500	-3.6222
109 132	-3.6222	-6.2500	-3.2552
109 131	-3.6222	-5.2500	-3.2552
109 114	-3.7206	-5.2500	-3.6222
110 115	-3.7206	-6.2500	-3.6222
110 116	-3.7206	-7.2500	-3.6222
110 133	-3.6222	-7.2500	-3.2552
110 132	-3.6222	-6.2500	-3.2552
110 115	-3.7206	-6.2500	-3.6222
111 116	-3.7206	-7.2500	-3.6222
111 117	-3.7206	-8.2500	-3.6222
111 134	-3.6222	-8.2500	-3.2552
111 133	-3.6222	-7.2500	-3.2552
111 116	-3.7206	-7.2500	-3.6222
112 117	-3.7206	-9.2500	-3.6222
112 118	-3.7206	-9.2500	-3.6222
112 135	-3.6222	-9.2500	-3.2552

trial 1 output: 10 of 137

112 134	-3.6222	-8.2500	-3.2552
112 117	-3.7206	-8.2500	-3.6222
113 119	-3.6222	6.7500	-3.2552
113 120	-3.6222	5.7500	-3.2552
113 137	-3.5265	5.7500	-2.8978
113 136	-3.5265	6.7500	-2.8978
113 119	-3.6222	6.7500	-3.2552
114 120	-3.6222	5.7500	-3.2552
114 121	-3.6222	4.7500	-3.2552
114 138	-3.5265	4.7500	-2.8978
114 137	-3.5265	5.7500	-2.8978
114 120	-3.6222	5.7500	-3.2552
115 121	-3.6222	4.7500	-3.2552
115 122	-3.6222	3.7500	-3.2552
115 139	-3.5265	3.7500	-2.8978
115 138	-3.5265	4.7500	-2.8978
115 121	-3.6222	4.7500	-3.2552
116 122	-3.6222	3.7500	-3.2552
116 123	-3.6222	2.7500	-3.2552
116 140	-3.5265	2.7500	-2.8978
116 139	-3.5265	3.7500	-2.8978
116 122	-3.6222	3.7500	-3.2552
117 123	-3.6222	2.7500	-3.2552
117 124	-3.6222	1.7500	-3.2552
117 141	-3.5265	1.7500	-2.8978
117 140	-3.5265	2.7500	-2.8978
117 123	-3.6222	2.7500	-3.2552
118 124	-3.6222	1.7500	-3.2552
118 125	-3.6222	0.7500	-3.2552
118 142	-3.5265	0.7500	-2.8978
118 141	-3.5265	1.7500	-2.8978
118 124	-3.6222	1.7500	-3.2552
119 125	-3.6222	0.7500	-3.2552
119 126	-3.6222	-0.2500	-3.2552
119 143	-3.5265	-0.2500	-2.8978
119 142	-3.5265	0.7500	-2.8978
119 125	-3.6222	0.7500	-3.2552
120 126	-3.6222	-0.2500	-3.2552
120 127	-3.6222	-1.2500	-3.2552
120 144	-3.5265	-1.2500	-2.8978
120 143	-3.5265	-0.2500	-2.8978
120 126	-3.6222	-0.2500	-3.2552
121 127	-3.6222	-1.2500	-3.2552
121 128	-3.6222	-2.2500	-3.2552
121 145	-3.5265	-2.2500	-2.8978
121 144	-3.5265	-1.2500	-2.8978
121 127	-3.6222	-1.2500	-3.2552
122 128	-3.6222	-2.2500	-3.2552
122 129	-3.6222	-3.2500	-3.2552
122 146	-3.5265	-3.2500	-2.8978
122 145	-3.5265	-2.2500	-2.8978
122 128	-3.6222	-2.2500	-3.2552
123 129	-3.6222	-3.2500	-3.2552
123 130	-3.6222	-4.2500	-3.2552
123 147	-3.5265	-4.2500	-2.8978
123 146	-3.5265	-3.2500	-2.8978
123 129	-3.6222	-3.2500	-3.2552
124 130	-3.6222	-4.2500	-3.2552
124 131	-3.6222	-5.2500	-3.2552
124 148	-3.5265	-5.2500	-2.8978
124 147	-3.5265	-4.2500	-2.8978
124 130	-3.6222	-4.2500	-3.2552
125 131	-3.6222	-5.2500	-3.2552
125 132	-3.6222	-6.2500	-3.2552

trial 1 output: 11 of 137

125 149	-3.5265	-6.2500	-2.8978
125 148	-3.5265	-5.2500	-2.8978
125 131	-3.6222	-5.2500	-3.2552
126 132	-3.6222	-6.2500	-3.2552
126 133	-3.6222	-7.2500	-3.2552
126 150	-3.5265	-7.2500	-2.8978
126 149	-3.5265	-6.2500	-2.8978
126 132	-3.6222	-6.2500	-3.2552
127 133	-3.6222	-7.2500	-3.2552
127 134	-3.6222	-8.2500	-3.2552
127 151	-3.5265	-8.2500	-2.8978
127 150	-3.5265	-7.2500	-2.8978
127 133	-3.6222	-7.2500	-3.2552
128 134	-3.6222	-8.2500	-3.2552
128 135	-3.6222	-9.2500	-3.2552
128 152	-3.5265	-9.2500	-2.8978
128 151	-3.5265	-8.2500	-2.8978
128 134	-3.6222	-8.2500	-3.2552
129 136	-3.5265	6.7500	-2.8978
129 137	-3.5265	5.7500	-2.8978
129 154	-3.4281	5.7500	-2.5307
129 153	-3.4281	6.7500	-2.5307
129 136	-3.5265	6.7500	-2.8978
130 137	-3.5265	5.7500	-2.8978
130 138	-3.5265	4.7500	-2.8978
130 155	-3.4281	4.7500	-2.5307
130 154	-3.4281	5.7500	-2.5307
130 137	-3.5265	5.7500	-2.8978
131 138	-3.5265	4.7500	-2.8978
131 139	-3.5265	3.7500	-2.8978
131 156	-3.4281	3.7500	-2.5307
131 155	-3.4281	4.7500	-2.5307
131 138	-3.5265	4.7500	-2.8978
132 139	-3.5265	3.7500	-2.8978
132 140	-3.5265	2.7500	-2.8978
132 157	-3.4281	2.7500	-2.5307
132 156	-3.4281	3.7500	-2.5307
132 139	-3.5265	3.7500	-2.8978
133 140	-3.5265	2.7500	-2.8978
133 141	-3.5265	1.7500	-2.8978
133 158	-3.4281	1.7500	-2.5307
133 157	-3.4281	2.7500	-2.5307
133 140	-3.5265	2.7500	-2.8978
134 141	-3.5265	1.7500	-2.8978
134 142	-3.5265	0.7500	-2.8978
134 159	-3.4281	0.7500	-2.5307
134 158	-3.4281	1.7500	-2.5307
134 141	-3.5265	1.7500	-2.8978
135 142	-3.5265	0.7500	-2.8978
135 143	-3.5265	-0.2500	-2.8978
135 160	-3.4281	-0.2500	-2.5307
135 159	-3.4281	0.7500	-2.5307
135 142	-3.5265	0.7500	-2.8978
136 143	-3.5265	-0.2500	-2.8978
136 144	-3.5265	-1.2500	-2.8978
136 161	-3.4281	-1.2500	-2.5307
136 160	-3.4281	-0.2500	-2.5307
136 143	-3.5265	-0.2500	-2.8978
137 144	-3.5265	-1.2500	-2.8978
137 145	-3.5265	-2.2500	-2.8978
137 162	-3.4281	-2.2500	-2.5307
137 161	-3.4281	-1.2500	-2.5307
137 144	-3.5265	-1.2500	-2.8978
138 145	-3.5265	-2.2500	-2.8978

trial 1 output: 12 of 137

138 146	-3.5265	-3.2500	-2.8978
138 163	-3.4281	-3.2500	-2.5307
138 162	-3.4281	-2.2500	-2.5307
138 145	-3.5265	-2.2500	-2.8978
139 146	-3.5265	-3.2500	-2.8978
139 147	-3.5265	-4.2500	-2.8978
139 164	-3.4281	-4.2500	-2.5307
139 163	-3.4281	-3.2500	-2.5307
139 146	-3.5265	-3.2500	-2.8978
140 147	-3.5265	-4.2500	-2.8978
140 148	-3.5265	-5.2500	-2.8978
140 165	-3.4281	-5.2500	-2.5307
140 164	-3.4281	-4.2500	-2.5307
140 147	-3.5265	-4.2500	-2.8978
141 148	-3.5265	-5.2500	-2.8978
141 149	-3.5265	-6.2500	-2.8978
141 166	-3.4281	-6.2500	-2.5307
141 165	-3.4281	-5.2500	-2.5307
141 148	-3.5265	-5.2500	-2.8978
142 149	-3.5265	-6.2500	-2.8978
142 150	-3.5265	-7.2500	-2.8978
142 167	-3.4281	-7.2500	-2.5307
142 166	-3.4281	-6.2500	-2.5307
142 149	-3.5265	-6.2500	-2.8978
143 150	-3.5265	-7.2500	-2.8978
143 151	-3.5265	-8.2500	-2.8978
143 168	-3.4281	-8.2500	-2.5307
143 167	-3.4281	-7.2500	-2.5307
143 150	-3.5265	-7.2500	-2.8978
144 151	-3.5265	-8.2500	-2.8978
144 152	-3.5265	-9.2500	-2.8978
144 169	-3.4281	-9.2500	-2.5307
144 168	-3.4281	-8.2500	-2.5307
144 151	-3.5265	-8.2500	-2.8978
145 153	-3.4281	6.7500	-2.5307
145 154	-3.4281	5.7500	-2.5307
145 171	-3.3323	5.7500	-2.1733
145 170	-3.3323	6.7500	-2.1733
145 153	-3.4281	6.7500	-2.5307
146 154	-3.4281	5.7500	-2.5307
146 155	-3.4281	4.7500	-2.5307
146 172	-3.3323	4.7500	-2.1733
146 171	-3.3323	5.7500	-2.1733
146 154	-3.4281	5.7500	-2.5307
147 155	-3.4281	4.7500	-2.5307
147 156	-3.4281	3.7500	-2.5307
147 173	-3.3323	3.7500	-2.1733
147 172	-3.3323	4.7500	-2.1733
147 155	-3.4281	4.7500	-2.5307
148 156	-3.4281	3.7500	-2.5307
148 157	-3.4281	2.7500	-2.5307
148 174	-3.3323	2.7500	-2.1733
148 173	-3.3323	3.7500	-2.1733
148 156	-3.4281	3.7500	-2.5307

Joe

trial 1 output: 13 of 137				trial 1 output: 14 of 137			
151 159	-3.4281	0.7500	-2.5307	164 173	-3.3323	3.7500	-2.1733
151 160	-3.4281	-0.2500	-2.5307	164 174	-3.3323	2.7500	-2.1733
151 177	-3.3323	-0.2500	-2.1733	164 191	-3.2340	2.7500	-1.8063
151 176	-3.3323	0.7500	-2.1733	164 190	-3.2340	3.7500	-1.8063
151 159	-3.4281	0.7500	-2.5307	164 173	-3.3323	3.7500	-2.1733
152 160	-3.4281	-0.2500	-2.5307	165 174	-3.3323	2.7500	-2.1733
152 161	-3.4281	-1.2500	-2.5307	165 175	-3.3323	1.7500	-2.1733
152 178	-3.3323	-1.2500	-2.1733	165 192	-3.2340	1.7500	-1.8063
152 177	-3.3323	-0.2500	-2.1733	165 191	-3.2340	2.7500	-1.8063
152 160	-3.4281	-0.2500	-2.5307	165 174	-3.3323	2.7500	-2.1733
153 161	-3.4281	-1.2500	-2.5307	166 175	-3.3323	1.7500	-2.1733
153 162	-3.4281	-2.2500	-2.5307	166 176	-3.3323	0.7500	-2.1733
153 179	-3.3323	-2.2500	-2.1733	166 193	-3.2340	0.7500	-1.8063
153 178	-3.3323	-1.2500	-2.1733	166 192	-3.2340	1.7500	-1.8063
153 161	-3.4281	-1.2500	-2.5307	166 175	-3.3323	1.7500	-2.1733
154 162	-3.4281	-2.2500	-2.5307	167 176	-3.3323	0.7500	-2.1733
154 163	-3.4281	-3.2500	-2.5307	167 177	-3.3323	-0.2500	-2.1733
154 190	-3.3323	-3.2500	-2.1733	167 194	-3.2340	-0.2500	-1.8063
154 179	-3.3323	-2.2500	-2.1733	167 193	-3.2340	0.7500	-1.8063
154 162	-3.4281	-2.2500	-2.5307	167 176	-3.3323	0.7500	-2.1733
155 163	-3.4281	-3.2500	-2.5307	168 177	-3.3323	-0.2500	-2.1733
155 164	-3.4281	-4.2500	-2.5307	168 178	-3.3323	-1.2500	-2.1733
155 181	-3.3323	-4.2500	-2.1733	168 195	-3.2340	-1.2500	-1.8063
155 180	-3.3323	-3.2500	-2.1733	168 194	-3.2340	-0.2500	-1.8063
155 163	-3.4281	-3.2500	-2.5307	168 177	-3.3323	-0.2500	-2.1733
156 164	-3.4281	-4.2500	-2.5307	169 178	-3.3323	-1.2500	-2.1733
156 165	-3.4281	-5.2500	-2.5307	169 179	-3.3323	-2.2500	-2.1733
156 182	-3.3323	-5.2500	-2.1733	169 196	-3.2340	-2.2500	-1.8063
156 181	-3.3323	-4.2500	-2.1733	169 195	-3.2340	-1.2500	-1.8063
156 164	-3.4281	-4.2500	-2.5307	169 178	-3.3323	-1.2500	-2.1733
157 165	-3.4281	-5.2500	-2.5307	170 179	-3.3323	-2.2500	-2.1733
157 166	-3.4281	-6.2500	-2.5307	170 180	-3.3323	-3.2500	-2.1733
157 183	-3.3323	-6.2500	-2.1733	170 197	-3.2340	-3.2500	-1.8063
157 182	-3.3323	-5.2500	-2.1733	170 196	-3.2340	-2.2500	-1.8063
157 165	-3.4281	-5.2500	-2.5307	170 179	-3.3323	-2.2500	-2.1733
158 166	-3.4281	-6.2500	-2.5307	171 180	-3.3323	-3.2500	-2.1733
158 167	-3.4281	-7.2500	-2.5307	171 181	-3.3323	-4.2500	-2.1733
158 184	-3.3323	-7.2500	-2.1733	171 198	-3.2340	-4.2500	-1.8063
158 183	-3.3323	-6.2500	-2.1733	171 197	-3.2340	-3.2500	-1.8063
158 166	-3.4281	-6.2500	-2.5307	171 180	-3.3323	-3.2500	-2.1733
159 167	-3.4281	-7.2500	-2.5307	172 181	-3.3323	-4.2500	-2.1733
159 168	-3.4281	-8.2500	-2.5307	172 182	-3.3323	-5.2500	-2.1733
159 185	-3.3323	-8.2500	-2.1733	172 199	-3.2340	-5.2500	-1.8063
159 184	-3.3323	-7.2500	-2.1733	172 198	-3.2340	-4.2500	-1.8063
159 167	-3.4281	-7.2500	-2.5307	172 181	-3.3323	-4.2500	-2.1733
160 168	-3.4281	-8.2500	-2.5307	173 182	-3.3323	-5.2500	-2.1733
160 169	-3.4281	-9.2500	-2.5307	173 183	-3.3323	-6.2500	-2.1733
160 186	-3.3323	-9.2500	-2.1733	173 200	-3.2340	-6.2500	-1.8063
160 185	-3.3323	-8.2500	-2.1733	173 199	-3.2340	-5.2500	-1.8063
160 168	-3.4281	-8.2500	-2.5307	173 182	-3.3323	-5.2500	-2.1733
161 170	-3.3323	6.7500	-2.1733	174 183	-3.3323	-6.2500	-2.1733
161 171	-3.3323	5.7500	-2.1733	174 184	-3.3323	-7.2500	-2.1733
161 188	-3.2340	5.7500	-1.8063	174 201	-3.2340	-7.2500	-1.8063
161 187	-3.2340	6.7500	-1.8063	174 200	-3.2340	-6.2500	-1.8063
161 170	-3.3323	6.7500	-2.1733	174 183	-3.3323	-6.2500	-2.1733
162 171	-3.3323	5.7500	-2.1733	175 184	-3.3323	-7.2500	-2.1733
162 172	-3.3323	4.7500	-2.1733	175 185	-3.3323	-8.2500	-2.1733
162 189	-3.2340	4.7500	-1.8063	175 202	-3.2340	-8.2500	-1.8063
162 188	-3.2340	5.7500	-1.8063	175 201	-3.2340	-7.2500	-1.8063
162 171	-3.3323	5.7500	-2.1733	175 184	-3.3323	-7.2500	-2.1733
163 172	-3.3323	4.7500	-2.1733	176 185	-3.3323	-8.2500	-2.1733
163 173	-3.3323	3.7500	-2.1733	176 186	-3.3323	-9.2500	-2.1733
163 190	-3.2340	3.7500	-1.8063	176 203	-3.2340	-9.2500	-1.8063
163 189	-3.2340	4.7500	-1.8063	176 202	-3.2340	-8.2500	-1.8063
163 172	-3.3323	4.7500	-2.1733				

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trial 1 output: 15 of 137				trial 1 output: 16 of 137			
176 185	-3.3323	-8.2500	-2.1733	189 216	-3.1382	-5.2500	-1.4489
177 187	-3.2340	6.7500	-1.8063	189 199	-3.2340	-5.2500	-1.8063
177 188	-3.2340	5.7500	-1.8063	190 200	-3.2340	-6.2500	-1.8063
177 205	-3.1382	5.7500	-1.4489	190 201	-3.2340	-7.2500	-1.8063
177 204	-3.1382	6.7500	-1.4489	190 218	-3.1382	-7.2500	-1.4489
177 187	-3.2340	6.7500	-1.8063	190 217	-3.1382	-6.2500	-1.4489
178 188	-3.2340	5.7500	-1.8063	190 200	-3.2340	-6.2500	-1.8063
178 189	-3.2340	4.7500	-1.8063	191 201	-3.2340	-7.2500	-1.8063
178 206	-3.1382	4.7500	-1.4489	191 202	-3.2340	-8.2500	-1.8063
178 205	-3.1382	5.7500	-1.4489	191 219	-3.1382	-8.2500	-1.4489
178 188	-3.2340	5.7500	-1.8063	191 218	-3.1382	-7.2500	-1.4489
179 189	-3.2340	4.7500	-1.8063	191 201	-3.2340	-7.2500	-1.8063
179 190	-3.2340	3.7500	-1.8063	192 202	-3.2340	-8.2500	-1.8063
179 207	-3.1382	3.7500	-1.4489	192 203	-3.2340	-9.2500	-1.8063
179 206	-3.1382	4.7500	-1.4489	192 220	-3.1382	-9.2500	-1.4489
179 189	-3.2340	4.7500	-1.8063	192 219	-3.1382	-8.2500	-1.4489
180 190	-3.2340	3.7500	-1.8063	192 202	-3.2340	-8.2500	-1.8063
180 191	-3.2340	2.7500	-1.8063	193 204	-3.1382	6.7500	-1.4489
180 208	-3.1382	2.7500	-1.4489	193 205	-3.1382	5.7500	-1.4489
180 207	-3.1382	3.7500	-1.4489	193 222	-3.0399	5.7500	-1.0818
180 190	-3.2340	3.7500	-1.8063	193 221	-3.0399	6.7500	-1.0818
181 191	-3.2340	2.7500	-1.8063	193 204	-3.1382	6.7500	-1.4489
181 192	-3.2340	1.7500	-1.8063	194 205	-3.1382	5.7500	-1.4489
181 209	-3.1382	1.7500	-1.4489	194 206	-3.1382	4.7500	-1.4489
181 208	-3.1382	2.7500	-1.4489	194 223	-3.0399	4.7500	-1.0818
181 191	-3.2340	2.7500	-1.8063	194 222	-3.0399	5.7500	-1.0818
182 192	-3.2340	1.7500	-1.8063	194 205	-3.1382	5.7500	-1.4489
182 193	-3.2340	0.7500	-1.8063	195 206	-3.1382	4.7500	-1.4489
182 210	-3.1382	0.7500	-1.4489	195 207	-3.1382	3.7500	-1.4489
182 209	-3.1382	1.7500	-1.4489	195 224	-3.0399	3.7500	-1.0818
182 192	-3.2340	1.7500	-1.8063	195 206	-3.1382	4.7500	-1.4489
183 193	-3.2340	0.7500	-1.8063	196 207	-3.1382	3.7500	-1.4489
183 194	-3.2340	-0.2500	-1.8063	196 208	-3.1382	2.7500	-1.4489
183 211	-3.1382	-0.2500	-1.4489	196 225	-3.0399	2.7500	-1.0818
183 210	-3.1382	0.7500	-1.4489	196 224	-3.0399	3.7500	-1.0818
183 193	-3.2340	0.7500	-1.8063	196 207	-3.1382	3.7500	-1.4489
184 194	-3.2340	-0.2500	-1.8063	197 208	-3.1382	2.7500	-1.4489
184 195	-3.2340	-1.2500	-1.8063	197 209	-3.1382	1.7500	-1.4489
184 212	-3.1382	-1.2500	-1.4489	197 226	-3.0399	1.7500	-1.0818
184 211	-3.1382	-0.2500	-1.4489	197 225	-3.0399	2.7500	-1.0818
184 194	-3.2340	-0.2500	-1.8063	197 208	-3.1382	2.7500	-1.4489
185 195	-3.2340	-1.2500	-1.8063	198 209	-3.1382	1.7500	-1.4489
185 196	-3.2340	-2.2500	-1.8063	198 210	-3.1382	0.7500	-1.4489
185 213	-3.1382	-2.2500	-1.4489	198 227	-3.0399	0.7500	-1.0818
185 212	-3.1382	-1.2500	-1.4489	198 226	-3.0399	1.7500	-1.0818
185 195	-3.2340	-1.2500	-1.8063	198 209	-3.1382	1.7500	-1.4489
186 196	-3.2340	-2.2500	-1.8063	199 210	-3.1382	0.7500	-1.4489
186 197	-3.2340	-3.2500	-1.8063	199 211	-3.1382	-0.2500	-1.4489
186 214	-3.1382	-3.2500	-1.4489	199 228	-3.0399	-0.2500	-1.0818
186 213	-3.1382	-2.2500	-1.4489	199 227	-3.0399	0.7500	-1.0818
186 196	-3.2340	-2.2500	-1.8063	199 210	-3.1382	0.7500	-1.4489
187 197	-3.2340	-3.2500	-1.8063	200 211	-3.1382	-0.2500	-1.4489
187 198	-3.2340	-4.2500	-1.8063	200 212	-3.1382	-1.2500	-1.4489
187 215	-3.1382	-4.2500	-1.4489	200 229	-3.0399	-1.2500	-1.0818
187 214	-3.1382	-3.2500	-1.4489	200 228	-3.0399	-0.2500	-1.0818
187 197	-3.2340	-3.2500	-1.8063	200 211	-3.1382	-0.2500	-1.4489
188 198	-3.2340	-4.2500	-1.8063	201 212	-3.1382	-1.2500	-1.4489
188 199	-3.2340	-5.2500	-1.8063	201 213	-3.1382	-2.2500	-1.4489
188 216	-3.1382	-5.2500	-1.4489	201 230	-3.0399	-2.2500	-1.0818
188 215	-3.1382	-4.2500	-1.4489	201 229	-3.0399	-1.2500	-1.0818
188 198	-3.2340	-4.2500	-1.8063	201 212	-3.1382	-1.2500	-1.4489
189 199	-3.2340	-5.2500	-1.8063	202 213	-3.1382	-2.2500	-1.4489
189 200	-3.2340	-6.2500	-1.8063	202 214	-3.1382	-3.2500	-1.4489
189 217	-3.1382	-6.2500	-1.4489				

trial 1 output: 17 of 137

202 231	-3.0399	-3.2500	-1.0818
202 230	-3.0399	-2.2500	-1.0818
202 213	-3.1382	-2.2500	-1.4489
203 214	-3.1382	-3.2500	-1.4489
203 215	-3.1382	-4.2500	-1.4489
203 232	-3.0399	-4.2500	-1.0818
203 231	-3.0399	-3.2500	-1.0818
203 214	-3.1382	-3.2500	-1.4489
204 215	-3.1382	-4.2500	-1.4489
204 216	-3.1382	-5.2500	-1.4489
204 233	-3.0399	-5.2500	-1.0818
204 232	-3.0399	-4.2500	-1.0818
204 215	-3.1382	-4.2500	-1.4489
205 216	-3.1382	-5.2500	-1.4489
205 217	-3.1382	-6.2500	-1.4489
205 234	-3.0399	-6.2500	-1.0818
205 233	-3.0399	-5.2500	-1.0818
205 216	-3.1382	-5.2500	-1.4489
206 217	-3.1382	-6.2500	-1.4489
206 218	-3.1382	-7.2500	-1.4489
206 235	-3.0399	-7.2500	-1.0818
206 234	-3.0399	-6.2500	-1.0818
206 217	-3.1382	-6.2500	-1.4489
207 218	-3.1382	-7.2500	-1.4489
207 219	-3.1382	-8.2500	-1.4489
207 236	-3.0399	-8.2500	-1.0818
207 235	-3.0399	-7.2500	-1.0818
207 218	-3.1382	-7.2500	-1.4489
208 219	-3.1382	-8.2500	-1.4489
208 220	-3.1382	-9.2500	-1.4489
208 237	-3.0399	-9.2500	-1.0818
208 236	-3.0399	-8.2500	-1.0818
208 219	-3.1382	-8.2500	-1.4489
209 221	-3.0399	6.7500	-1.0818
209 222	-3.0399	5.7500	-1.0818
209 239	-2.9439	5.7500	-0.7235
209 238	-2.9439	6.7500	-0.7235
209 221	-3.0399	6.7500	-1.0818
210 222	-3.0399	5.7500	-1.0818
210 223	-3.0399	4.7500	-1.0818
210 240	-2.9439	4.7500	-0.7235
210 239	-2.9439	5.7500	-0.7235
210 222	-3.0399	5.7500	-1.0818
211 223	-3.0399	4.7500	-1.0818
211 224	-3.0399	3.7500	-1.0818
211 241	-2.9439	3.7500	-0.7235
211 240	-2.9439	4.7500	-0.7235
211 223	-3.0399	4.7500	-1.0818
212 224	-3.0399	3.7500	-1.0818
212 225	-3.0399	2.7500	-1.0818
212 242	-2.9439	2.7500	-0.7235
212 241	-2.9439	3.7500	-0.7235
212 224	-3.0399	3.7500	-1.0818
213 225	-3.0399	2.7500	-1.0818
213 226	-3.0399	1.7500	-1.0818
213 243	-2.9439	1.7500	-0.7235
213 242	-2.9439	2.7500	-0.7235
213 225	-3.0399	2.7500	-1.0818
214 226	-3.0399	1.7500	-1.0818
214 227	-3.0399	0.7500	-1.0818
214 244	-2.9439	0.7500	-0.7235
214 243	-2.9439	1.7500	-0.7235
214 226	-3.0399	1.7500	-1.0818
215 227	-3.0399	0.7500	-1.0818

trial 1 output: 18 of 137

215 228	-3.0399	-0.2500	-1.0818
215 245	-2.9439	-0.2500	-0.7235
215 244	-2.9439	0.7500	-0.7235
215 227	-3.0399	0.7500	-1.0818
216 228	-3.0399	-0.2500	-1.0818
216 229	-3.0399	-1.2500	-1.0818
216 246	-2.9439	-1.2500	-0.7235
216 245	-2.9439	-0.2500	-0.7235
216 228	-3.0399	-0.2500	-1.0818
217 229	-3.0399	-1.2500	-1.0818
217 230	-3.0399	-2.2500	-1.0818
217 247	-2.9439	-2.2500	-0.7235
217 246	-2.9439	-1.2500	-0.7235
217 229	-3.0399	-1.2500	-1.0818
218 230	-3.0399	-2.2500	-1.0818
218 231	-3.0399	-3.2500	-1.0818
218 248	-2.9439	-3.2500	-0.7235
218 247	-2.9439	-2.2500	-0.7235
218 230	-3.0399	-2.2500	-1.0818
219 231	-3.0399	-3.2500	-1.0818
219 232	-3.0399	-4.2500	-1.0818
219 249	-2.9439	-4.2500	-0.7235
219 248	-2.9439	-3.2500	-0.7235
219 231	-3.0399	-3.2500	-1.0818
220 232	-3.0399	-4.2500	-1.0818
220 233	-3.0399	-5.2500	-1.0818
220 250	-2.9439	-5.2500	-0.7235
220 249	-2.9439	-4.2500	-0.7235
220 232	-3.0399	-4.2500	-1.0818
221 233	-3.0399	-5.2500	-1.0818
221 234	-3.0399	-6.2500	-1.0818
221 251	-2.9439	-6.2500	-0.7235
221 250	-2.9439	-5.2500	-0.7235
221 233	-3.0399	-5.2500	-1.0818
222 234	-3.0399	-6.2500	-1.0818
222 235	-3.0399	-7.2500	-1.0818
222 252	-2.9439	-7.2500	-0.7235
222 251	-2.9439	-6.2500	-0.7235
222 234	-3.0399	-6.2500	-1.0818
223 235	-3.0399	-7.2500	-1.0818
223 236	-3.0399	-8.2500	-1.0818
223 253	-2.9439	-8.2500	-0.7235
223 252	-2.9439	-7.2500	-0.7235
223 235	-3.0399	-7.2500	-1.0818
224 236	-3.0399	-8.2500	-1.0818
224 237	-3.0399	-9.2500	-1.0818
224 254	-2.9439	-9.2500	-0.7235
224 253	-2.9439	-8.2500	-0.7235
224 236	-3.0399	-8.2500	-1.0818
225 238	-2.9439	6.7500	-0.7235
225 239	-2.9439	5.7500	-0.7235
225 256	-2.8471	5.7500	-0.3622
225 255	-2.8471	6.7500	-0.3622
225 238	-2.9439	6.7500	-0.7235
226 239	-2.9439	5.7500	-0.7235
226 240	-2.9439	4.7500	-0.7235
226 257	-2.8471	4.7500	-0.3622
226 256	-2.8471	5.7500	-0.3622
226 239	-2.9439	5.7500	-0.7235
227 240	-2.9439	4.7500	-0.7235
227 241	-2.9439	3.7500	-0.7235
227 258	-2.8471	3.7500	-0.3622
227 257	-2.8471	4.7500	-0.3622
227 240	-2.9439	4.7500	-0.7235

trial 1 output: 19 of 137

228 241	-2.9439	3.7500	-0.7235
228 242	-2.9439	2.7500	-0.7235
228 259	-2.8471	2.7500	-0.3622
228 258	-2.8471	3.7500	-0.3622
228 241	-2.9439	3.7500	-0.7235
229 242	-2.9439	2.7500	-0.7235
229 243	-2.9439	1.7500	-0.7235
229 260	-2.8471	1.7500	-0.3622
229 259	-2.8471	2.7500	-0.3622
229 242	-2.9439	2.7500	-0.7235
230 243	-2.9439	1.7500	-0.7235
230 244	-2.9439	0.7500	-0.7235
230 261	-2.8471	0.7500	-0.3622
230 260	-2.8471	1.7500	-0.3622
230 243	-2.9439	1.7500	-0.7235
231 244	-2.9439	0.7500	-0.7235
231 245	-2.9439	-0.2500	-0.7235
231 262	-2.8471	-0.2500	-0.3622
231 261	-2.8471	0.7500	-0.3622
231 244	-2.9439	0.7500	-0.7235
232 245	-2.9439	-0.2500	-0.7235
232 246	-2.9439	-1.2500	-0.7235
232 263	-2.8471	-1.2500	-0.3622
232 262	-2.8471	-0.2500	-0.3622
232 245	-2.9439	-0.2500	-0.7235
233 246	-2.9439	-1.2500	-0.7235
233 247	-2.9439	-2.2500	-0.7235
233 264	-2.8471	-2.2500	-0.3622
233 263	-2.8471	-1.2500	-0.3622
233 246	-2.9439	-1.2500	-0.7235
234 247	-2.9439	-2.2500	-0.7235
234 248	-2.9439	-3.2500	-0.7235
234 265	-2.8471	-3.2500	-0.3622
234 264	-2.8471	-2.2500	-0.3622
234 247	-2.9439	-2.2500	-0.7235
235 248	-2.9439	-3.2500	-0.7235
235 249	-2.9439	-4.2500	-0.7235
235 266	-2.8471	-4.2500	-0.3622
235 265	-2.8471	-3.2500	-0.3622
235 248	-2.9439	-3.2500	-0.7235
236 249	-2.9439	-4.2500	-0.7235
236 250	-2.9439	-5.2500	-0.7235
236 267	-2.8471	-5.2500	-0.3622
236 266	-2.8471	-4.2500	-0.3622
236 249	-2.9439	-4.2500	-0.7235
237 250	-2.9439	-5.2500	-0.7235
237 251	-2.9439	-6.2500	-0.7235
237 268	-2.8471	-6.2500	-0.3622
237 267	-2.8471	-5.2500	-0.3622
237 250	-2.9439	-5.2500	-0.7235
238 251	-2.9439	-6.2500	-0.7235
238 252	-2.9439	-7.2500	-0.7235
238 269	-2.8471	-7.2500	-0.3622
238 268	-2.8471	-6.2500	-0.3622
238 251	-2.9439	-6.2500	-0.7235
239 252	-2.9439	-7.2500	-0.7235
239 253	-2.9439	-8.2500	-0.7235
239 270	-2.8471	-8.2500	-0.3622
239 269	-2.8471	-7.2500	-0.3622
239 252	-2.9439	-7.2500	-0.7235
240 253	-2.9439	-8.2500	-0.7235
240 254	-2.9439	-9.2500	-0.7235
240 271	-2.8471	-9.2500	-0.3622
240 270	-2.8471	-8.2500	-0.3622
240 253	-2.9439	-8.2500	-0.7235

trial 1 output: 20 of 137

241 255	-2.8471	6.7500	-0.3622
241 256	-2.8471	5.7500	-0.3622
241 273	-2.7500	5.7500	-0.0000
241 272	-2.7500	6.7500	-0.0000
241 255	-2.8471	6.7500	-0.3622
242 256	-2.8471	5.7500	-0.3622
242 257	-2.8471	4.7500	-0.3622
242 274	-2.7500	4.7500	-0.0000
242 273	-2.7500	5.7500	-0.0000
242 256	-2.8471	5.7500	-0.3622
243 257	-2.8471	4.7500	-0.3622
243 258	-2.8471	3.7500	-0.3622
243 275	-2.7500	3.7500	-0.0000
243 274	-2.7500	4.7500	-0.0000
243 257	-2.8471	4.7500	-0.3622
244 258	-2.8471	3.7500	-0.3622
244 259	-2.8471	2.7500	-0.3622
244 276	-2.7500	2.7500	-0.0000
244 275	-2.7500	3.7500	-0.0000
244 258	-2.8471	3.7500	-0.3622
245 259	-2.8471	2.7500	-0.3622
245 260	-2.8471	1.7500	-0.3622
245 277	-2.7500	1.7500	-0.0000
245 276	-2.7500	2.7500	-0.0000
245 259	-2.8471	2.7500	-0.3622
246 260	-2.8471	1.7500	-0.3622
246 261	-2.8471	0.7500	-0.3622
246 278	-2.7500	0.7500	-0.0000
246 277	-2.7500	1.7500	-0.0000
246 260	-2.8471	1.7500	-0.3622
247 261	-2.8471	0.7500	-0.3622
247 262	-2.8471	-0.2500	-0.3622
247 279	-2.7500	-0.2500	-0.0000
247 278	-2.7500	0.7500	-0.0000
247 261	-2.8471	0.7500	-0.3622
248 262	-2.8471	-0.2500	-0.3622
248 263	-2.8471	-1.2500	-0.3622
248 280	-2.7500	-1.2500	-0.0000
248 279	-2.7500	-0.2500	-0.0000
248 262	-2.8471	-0.2500	-0.3622
249 263	-2.8471	-1.2500	-0.3622
249 264	-2.8471	-2.2500	-0.3622
249 281	-2.7500	-2.2500	-0.0000
249 280	-2.7500	-1.2500	-0.0000
249 263	-2.8471	-1.2500	-0.3622
250 264	-2.8471	-2.2500	-0.3622
250 265	-2.8471	-3.2500	-0.3622
250 282	-2.7500	-3.2500	-0.0000
250 281	-2.7500	-2.2500	-0.0000
250 264	-2.8471	-2.2500	-0.3622
251 265	-2.8471	-3.2500	-0.3622
251 266	-2.8471	-4.2500	-0.3622
251 283	-2.7500	-4.2500	-

trial 1 output: 21 of 137

trial 1 output: 22 of 137

253 267	-2.8471	-5.2500	-0.3622
254 268	-2.8471	-6.2500	-0.3622
254 269	-2.8471	-7.2500	-0.3622
254 286	-2.7500	-7.2500	-0.0000
254 285	-2.7500	-6.2500	-0.0000
254 288	-2.8471	-6.2500	-0.3622
255 269	-2.8471	-7.2500	-0.3622
255 270	-2.8471	-8.2500	-0.3622
255 287	-2.7500	-8.2500	-0.0000
255 286	-2.7500	-7.2500	-0.0000
255 289	-2.8471	-7.2500	-0.3622
256 270	-2.8471	-8.2500	-0.3622
256 271	-2.8471	-9.2500	-0.3622
256 289	-2.7500	-9.2500	0.0000
256 287	-2.7500	-8.2500	-0.0000
256 270	-2.8471	-8.2500	-0.3622

OBJECT: pccr *Paintbrush Canyon Fault (rectangle)

ELT Vertex Name	X1	X2	X3
1 1000	0.9471	12.5000	-5.7956
1 1001	0.9471	11.5000	-5.7956
1 1020	1.0334	11.5000	-5.4736
1 1019	1.0334	12.5000	-5.4736
1 1000	0.9471	12.5000	-5.7956
2 1001	0.9471	11.5000	-5.7956
2 1002	0.9471	10.5000	-5.7956
2 1021	1.0334	10.5000	-5.4736
2 1020	1.0334	11.5000	-5.4736
2 1001	0.9471	11.5000	-5.7956
3 1002	0.9471	10.5000	-5.7956
3 1003	0.9471	9.5000	-5.7956
3 1022	1.0334	9.5000	-5.4736
3 1021	1.0334	10.5000	-5.4736
3 1002	0.9471	10.5000	-5.7956
4 1003	0.9471	9.5000	-5.7956
4 1004	0.9471	8.5000	-5.7956
4 1023	1.0334	8.5000	-5.4736
4 1022	1.0334	9.5000	-5.4736
4 1003	0.9471	9.5000	-5.7956
5 1004	0.9471	8.5000	-5.7956
5 1005	0.9471	7.5000	-5.7956
5 1024	1.0334	7.5000	-5.4736
5 1023	1.0334	8.5000	-5.4736
5 1004	0.9471	8.5000	-5.7956
6 1005	0.9471	7.5000	-5.7956
6 1006	0.9471	6.5000	-5.7956
6 1025	1.0334	6.5000	-5.4736
6 1024	1.0334	7.5000	-5.4736
6 1005	0.9471	7.5000	-5.7956
7 1006	0.9471	6.5000	-5.7956
7 1007	0.9471	5.5000	-5.7956
7 1026	1.0334	5.5000	-5.4736
7 1025	1.0334	6.5000	-5.4736
7 1006	0.9471	6.5000	-5.7956
8 1007	0.9471	5.5000	-5.7956
8 1008	0.9471	4.5000	-5.7956
8 1027	1.0334	4.5000	-5.4736
8 1026	1.0334	5.5000	-5.4736
8 1007	0.9471	5.5000	-5.7956
9 1008	0.9471	4.5000	-5.7956
9 1009	0.9471	3.5000	-5.7956
9 1028	1.0334	3.5000	-5.4736
9 1027	1.0334	4.5000	-5.4736
9 1008	0.9471	4.5000	-5.7956

Paintbrush Canyon Fault mesh

10 1009	0.9471	3.5000	-5.7956
10 1010	0.9471	2.5000	-5.7956
10 1029	1.0334	2.5000	-5.4736
10 1028	1.0334	3.5000	-5.4736
10 1009	0.9471	3.5000	-5.7956
11 1010	0.9471	2.5000	-5.7956
11 1011	0.9471	1.5000	-5.7956
11 1030	1.0334	1.5000	-5.4736
11 1029	1.0334	2.5000	-5.4736
11 1010	0.9471	2.5000	-5.7956
12 1011	0.9471	1.5000	-5.7956
12 1012	0.9471	0.5000	-5.7956
12 1031	1.0334	0.5000	-5.4736
12 1030	1.0334	1.5000	-5.4736
12 1011	0.9471	1.5000	-5.7956
13 1012	0.9471	0.5000	-5.7956
13 1013	0.9471	-0.5000	-5.7956
13 1032	1.0334	-0.5000	-5.4736
13 1031	1.0334	0.5000	-5.4736
13 1012	0.9471	0.5000	-5.7956
14 1013	0.9471	-1.5000	-5.7956
14 1014	0.9471	-1.5000	-5.7956
14 1033	1.0334	-1.5000	-5.4736
14 1032	1.0334	-0.5000	-5.4736
14 1013	0.9471	-0.5000	-5.7956
15 1014	0.9471	-1.5000	-5.7956
15 1015	0.9471	-2.5000	-5.7956
15 1034	1.0334	-2.5000	-5.4736
15 1033	1.0334	-1.5000	-5.4736
15 1014	0.9471	-1.5000	-5.7956
16 1015	0.9471	-2.5000	-5.7956
16 1016	0.9471	-3.5000	-5.7956
16 1035	1.0334	-3.5000	-5.4736
16 1034	1.0334	-2.5000	-5.4736
16 1015	0.9471	-2.5000	-5.7956
17 1016	0.9471	-3.5000	-5.7956
17 1017	0.9471	-4.5000	-5.7956
17 1036	1.0334	-4.5000	-5.4736
17 1035	1.0334	-3.5000	-5.4736
17 1016	0.9471	-3.5000	-5.7956
18 1017	0.9471	-4.5000	-5.7956
18 1018	0.9471	-5.5000	-5.7956
18 1037	1.0334	-5.5000	-5.4736
18 1036	1.0334	-4.5000	-5.4736
18 1017	0.9471	-4.5000	-5.7956
19 1019	1.0334	12.5000	-5.4736
19 1020	1.0334	11.5000	-5.4736
19 1039	1.1196	11.5000	-5.1516
19 1038	1.1196	12.5000	-5.1516
19 1019	1.0334	12.5000	-5.4736
20 1020	1.0334	11.5000	-5.4736
20 1021	1.0334	10.5000	-5.4736
20 1040	1.1196	10.5000	-5.1516
20 1039	1.1196	11.5000	-5.1516
20 1020	1.0334	11.5000	-5.4736
21 1021	1.0334	10.5000	-5.4736
21 1022	1.0334	9.5000	-5.4736
21 1041	1.1196	9.5000	-5.1516
21 1040	1.1196	10.5000	-5.1516
21 1021	1.0334	10.5000	-5.4736
22 1022	1.0334	9.5000	-5.4736
22 1023	1.0334	8.5000	-5.4736
22 1042	1.1196	8.5000	-5.1516
22 1041	1.1196	9.5000	-5.1516

trial 1 output: 23 of 137

trial 1 output: 24 of 137

22 1022	1.0334	9.5000	-5.4736
23 1023	1.0334	8.5000	-5.4736
23 1024	1.0334	7.5000	-5.4736
23 1043	1.1196	7.5000	-5.1516
23 1042	1.1196	8.5000	-5.1516
23 1023	1.0334	8.5000	-5.4736
24 1024	1.0334	7.5000	-5.4736
24 1025	1.0334	6.5000	-5.4736
24 1044	1.1196	6.5000	-5.1516
24 1043	1.1196	7.5000	-5.1516
24 1024	1.0334	7.5000	-5.4736
25 1025	1.0334	6.5000	-5.4736
25 1026	1.0334	5.5000	-5.4736
25 1045	1.1196	5.5000	-5.1516
25 1044	1.1196	6.5000	-5.1516
25 1025	1.0334	6.5000	-5.4736
26 1026	1.0334	5.5000	-5.4736
26 1027	1.0334	4.5000	-5.4736
26 1046	1.1196	4.5000	-5.1516
26 1045	1.1196	5.5000	-5.1516
26 1026	1.0334	5.5000	-5.4736
27 1027	1.0334	4.5000	-5.4736
27 1028	1.0334	3.5000	-5.4736
27 1047	1.1196	3.5000	-5.1516
27 1046	1.1196	4.5000	-5.1516
27 1027	1.0334	4.5000	-5.4736
28 1028	1.0334	3.5000	-5.4736
28 1029	1.0334	2.5000	-5.4736
28 1048	1.1196	2.5000	-5.1516
28 1047	1.1196	3.5000	-5.1516
28 1028	1.0334	3.5000	-5.4736
29 1029	1.0334	2.5000	-5.4736
29 1030	1.0334	1.5000	-5.4736
29 1049	1.1196	1.5000	-5.1516
29 1048	1.1196	2.5000	-5.1516
29 1029	1.0334	2.5000	-5.4736
30 1030	1.0334	1.5000	-5.4736
30 1031	1.0334	0.5000	-5.4736
30 1050	1.1196	0.5000	-5.1516
30 1049	1.1196	1.5000	-5.1516
30 1030	1.0334	1.5000	-5.4736
31 1031	1.0334	0.5000	-5.4736
31 1032	1.0334	-0.5000	-5.4736
31 1051	1.1196	-0.5000	-5.1516
31 1050	1.1196	0.5000	-5.1516
31 1031	1.0334	0.5000	-5.4736
32 1032	1.0334	-0.5000	-5.4736
32 1033	1.0334	-1.5000	-5.4736
32 1052	1.1196	-1.5000	-5.1516
32 1051	1.1196	-0.5000	-5.1516
32 1032	1.0334	-0.5000	-5.4736
33 1033	1.0334	-1.5000	-5.4736
33 1034	1.0334	-2.5000	-5.4736
33 1053	1.1196	-2.5000	-5.1516
33 1052	1.1196	-1.5000	-5.1516
33 1033	1.0334	-1.5000	-5.4736
34 1034	1.0334	-2.5000	-5.4736
34 1035	1.0334	-3.5000	-5.4736
34 1054	1.1196	-3.5000	-5.1516
34 1053	1.1196	-2.5000	-5.1516
34 1034	1.0334	-2.5000	-5.4736
35 1035	1.0334	-3.5000	-5.4736
35 1036	1.0334	-4.5000	-5.4736
35 1055	1.1196	-4.5000	-5.1516

35 1054	1.1196	-3.5000	-5.1516
35 1035	1.0334	-3.5000	-5.4736
36 1036	1.0334	-4.5000	-5.4736
36 1037	1.0334	-5.5000	-5.4736
36 1056	1.1196	-5.5000	-5.1516
36 1055	1.1196	-4.5000	-5.1516
36 1036	1.0334	-4.5000	-5.4736
37 1038	1.1196	12.5000	-5.1516
37 1039	1.1196	11.5000	-5.1516
37 1058	1.2059	11.5000	-4.8296
37 1057	1.2059	12.5000	-4.8296
37 1038	1.1196	12.5000	-5.1516
38 1039	1.1196	11.5000	-5.1516
38 1040	1.1196	10.5000	-5.1516
38 1059	1.2059	10.5000	-4.8296
38 1058	1.2059	11.5000	-4.8296
38 1039	1.1196	11.5000	-5.1516
39 1040	1.1196	10.5000	-5.1516
39 1041	1.1196	9.5000	-5.1516
39 1060	1.2059	9.5000	-4.8296
39 1059	1.2059	10.5000	-4.8296
39 1040	1.1196	10.5000	-5.1516
40 1041	1.1196	9.5000	-5.1516
40 1042	1.1196	8.5000	-5.1516
40 1061	1.2059	8.5000	-4.8296
40 1060	1.2059	9.5000	-4.8296
40 1041	1.1196	9.5000	-5.1516
41 1042	1.1196	8.5000	-5.1516
41 1043	1.1196	7.5000	-5.1516
41 1062	1.2059	7.5000	-4.8296
41 1061	1.2059	8.5000	-4.8296
41 1042	1.1196	8.5000	-5.1516
42 1043	1.1196	7.5000	-5.1516
42 1044	1.1196	6.5000	-5.1516
42 1063	1.2059	6.5000	-4.8296
42 1062	1.2059	7.5000	-4.8296
42 1043	1.1196	7.5000	-5.1516
43 1044	1.1196	6.5000	-5.1516
43 1045	1.1196	5.5000	-5.1516
43 1064	1.2059	5.5000	-4.8296
43 1063	1.2059	6.5000	-4.8296
43 1044	1.1196	6.5000	-5.1516
44 1045	1.1196	5.5000	-5.1516
44 1046	1.1196	4.5000	-5.1516
44 1065	1.2059	4.5000	-4.8296
44 1064	1.2059	5.5000	-4.8296
44 1045	1.1196	5.5000	-5.1516
45 1046	1.1196	4.5000	-5.1516
45 1047	1.1196	3.5000	-5.1516
45 1066	1.2059	3.5000	-4.8296
45 1065	1.2059	4.5000	-4.8296
45 1046	1.1196	4.5000	-5.1516
46 1047	1.1196	3.5000	-5.1516
46 1048	1.1196	2.5000	-5.1516

100

trial 1 output: 25 of 137			
48 1069	1.2059	0.5000	-4.8296
48 1068	1.2059	1.5000	-4.8296
48 1049	1.1196	1.5000	-5.1516
49 1050	1.1196	0.5000	-5.1516
49 1051	1.1196	-0.5000	-5.1516
49 1070	1.2059	-0.5000	-4.8296
49 1069	1.2059	0.5000	-4.8296
49 1050	1.1196	0.5000	-5.1516
50 1051	1.1196	-0.5000	-5.1516
50 1052	1.1196	-1.5000	-5.1516
50 1071	1.2059	-1.5000	-4.8296
50 1070	1.2059	-0.5000	-4.8296
50 1051	1.1196	-0.5000	-5.1516
51 1052	1.1196	-1.5000	-5.1516
51 1053	1.1196	-2.5000	-5.1516
51 1072	1.2059	-2.5000	-4.8296
51 1071	1.2059	-1.5000	-4.8296
51 1052	1.1196	-1.5000	-5.1516
52 1053	1.1196	-2.5000	-5.1516
52 1054	1.1196	-3.5000	-5.1516
52 1073	1.2059	-3.5000	-4.8296
52 1072	1.2059	-2.5000	-4.8296
52 1053	1.1196	-2.5000	-5.1516
53 1054	1.1196	-3.5000	-5.1516
53 1055	1.1196	-4.5000	-5.1516
53 1074	1.2059	-4.5000	-4.8296
53 1073	1.2059	-3.5000	-4.8296
53 1054	1.1196	-3.5000	-5.1516
54 1055	1.1196	-4.5000	-5.1516
54 1056	1.1196	-5.5000	-5.1516
54 1075	1.2059	-5.5000	-4.8296
54 1074	1.2059	-4.5000	-4.8296
54 1055	1.1196	-4.5000	-5.1516
55 1057	1.2059	12.5000	-4.8296
55 1058	1.2059	11.5000	-4.8296
55 1077	1.2922	11.5000	-4.5077
55 1076	1.2922	12.5000	-4.5077
55 1057	1.2059	12.5000	-4.8296
56 1058	1.2059	11.5000	-4.8296
56 1059	1.2059	10.5000	-4.8296
56 1078	1.2922	10.5000	-4.5077
56 1077	1.2922	11.5000	-4.5077
56 1058	1.2059	11.5000	-4.8296
57 1059	1.2059	10.5000	-4.8296
57 1060	1.2922	9.5000	-4.5077
57 1079	1.2922	9.5000	-4.5077
57 1078	1.2922	10.5000	-4.5077
57 1059	1.2059	10.5000	-4.8296
58 1060	1.2059	9.5000	-4.8296
58 1061	1.2059	8.5000	-4.8296
58 1080	1.2922	8.5000	-4.5077
58 1079	1.2922	9.5000	-4.5077
58 1060	1.2059	9.5000	-4.8296
59 1061	1.2059	8.5000	-4.8296
59 1062	1.2059	7.5000	-4.8296
59 1061	1.2922	7.5000	-4.5077
59 1062	1.2922	8.5000	-4.5077
59 1080	1.2922	8.5000	-4.5077
59 1061	1.2059	8.5000	-4.8296
60 1062	1.2059	7.5000	-4.8296
60 1063	1.2059	6.5000	-4.8296
60 1082	1.2922	6.5000	-4.5077
60 1081	1.2922	7.5000	-4.5077
60 1062	1.2059	7.5000	-4.8296
61 1063	1.2059	6.5000	-4.8296

trial 1 output: 26 of 137			
61 1064	1.2059	5.5000	-4.8296
61 1083	1.2922	5.5000	-4.5077
61 1082	1.2922	6.5000	-4.5077
61 1063	1.2059	6.5000	-4.8296
62 1064	1.2059	5.5000	-4.8296
62 1065	1.2059	4.5000	-4.8296
62 1084	1.2922	4.5000	-4.5077
62 1083	1.2922	5.5000	-4.5077
62 1064	1.2059	5.5000	-4.8296
63 1065	1.2059	4.5000	-4.8296
63 1066	1.2059	3.5000	-4.8296
63 1085	1.2922	3.5000	-4.5077
63 1084	1.2922	4.5000	-4.5077
63 1065	1.2059	4.5000	-4.8296
64 1066	1.2059	3.5000	-4.8296
64 1067	1.2059	2.5000	-4.8296
64 1086	1.2922	2.5000	-4.5077
64 1085	1.2922	3.5000	-4.5077
64 1066	1.2059	3.5000	-4.8296
65 1067	1.2059	2.5000	-4.8296
65 1068	1.2059	1.5000	-4.8296
65 1087	1.2922	1.5000	-4.5077
65 1086	1.2922	2.5000	-4.5077
65 1067	1.2059	2.5000	-4.8296
66 1068	1.2059	1.5000	-4.8296
66 1069	1.2059	0.5000	-4.8296
66 1088	1.2922	0.5000	-4.5077
66 1087	1.2922	1.5000	-4.5077
66 1068	1.2059	1.5000	-4.8296
67 1069	1.2059	0.5000	-4.8296
67 1070	1.2059	-0.5000	-4.8296
67 1089	1.2922	-0.5000	-4.5077
67 1088	1.2922	0.5000	-4.5077
67 1069	1.2059	0.5000	-4.8296
68 1070	1.2059	-0.5000	-4.8296
68 1071	1.2059	-1.5000	-4.8296
68 1090	1.2922	-1.5000	-4.5077
68 1089	1.2922	-0.5000	-4.5077
68 1070	1.2059	-0.5000	-4.8296
69 1071	1.2059	-1.5000	-4.8296
69 1072	1.2059	-2.5000	-4.8296
69 1091	1.2922	-2.5000	-4.5077
69 1090	1.2922	-1.5000	-4.5077
69 1071	1.2059	-1.5000	-4.8296
70 1072	1.2059	-2.5000	-4.8296
70 1073	1.2059	-3.5000	-4.8296
70 1092	1.2922	-3.5000	-4.5077
70 1091	1.2922	-2.5000	-4.5077
70 1072	1.2059	-2.5000	-4.8296
71 1073	1.2059	-3.5000	-4.8296
71 1074	1.2059	-4.5000	-4.8296
71 1093	1.2922	-4.5000	-4.5077
71 1092	1.2922	-3.5000	-4.5077
71 1073	1.2059	-3.5000	-4.8296
72 1074	1.2059	-4.5000	-4.8296
72 1075	1.2059	-5.5000	-4.8296
72 1094	1.2922	-5.5000	-4.5077
72 1093	1.2922	-4.5000	-4.5077
72 1074	1.2059	-4.5000	-4.8296
73 1076	1.2922	12.5000	-4.5077
73 1077	1.2922	11.5000	-4.5077
73 1096	1.3785	12.5000	-4.1856
73 1095	1.3785	11.5000	-4.1856
73 1076	1.2922	12.5000	-4.5077

100

100

trial 1 output: 27 of 137			
74 1077	1.2922	11.5000	-4.5077
74 1078	1.2922	10.5000	-4.5077
74 1097	1.3785	10.5000	-4.1856
74 1096	1.3785	11.5000	-4.1856
74 1077	1.2922	11.5000	-4.5077
75 1078	1.2922	10.5000	-4.5077
75 1079	1.2922	9.5000	-4.5077
75 1098	1.3785	9.5000	-4.1856
75 1097	1.3785	10.5000	-4.1856
75 1078	1.2922	10.5000	-4.5077
76 1079	1.2922	9.5000	-4.5077
76 1080	1.2922	8.5000	-4.5077
76 1099	1.3785	8.5000	-4.1856
76 1098	1.3785	9.5000	-4.1856
76 1079	1.2922	9.5000	-4.5077
77 1080	1.2922	8.5000	-4.5077
77 1081	1.2922	7.5000	-4.5077
77 1100	1.3785	7.5000	-4.1856
77 1099	1.3785	8.5000	-4.1856
77 1080	1.2922	8.5000	-4.5077
78 1081	1.2922	7.5000	-4.5077
78 1082	1.2922	6.5000	-4.5077
78 1101	1.3785	6.5000	-4.1856
78 1100	1.3785	7.5000	-4.1856
78 1081	1.2922	7.5000	-4.5077
79 1082	1.2922	6.5000	-4.5077
79 1083	1.2922	5.5000	-4.5077
79 1102	1.3785	5.5000	-4.1856
79 1101	1.3785	6.5000	-4.1856
79 1082	1.2922	6.5000	-4.5077
80 1083	1.2922	5.5000	-4.5077
80 1084	1.2922	4.5000	-4.5077
80 1103	1.3785	4.5000	-4.1856
80 1102	1.3785	5.5000	-4.1856
80 1083	1.2922	5.5000	-4.5077
81 1084	1.2922	4.5000	-4.5077
81 1085	1.2922	3.5000	-4.5077
81 1104	1.3785	3.5000	-4.1856
81 1103	1.3785	4.5000	-4.1856
81 1084	1.2922	4.5000	-4.5077
82 1085	1.2922	3.5000	-4.5077
82 1086	1.2922	2.5000	-4.5077
82 1105	1.3785	2.5000	-4.1856
82 1104	1.3785	3.5000	-4.1856
82 1085	1.2922	3.5000	-4.5077
83 1086	1.2922	2.5000	-4.5077
83 1087	1.2922	1.5000	-4.5077
83 1106	1.3785	1.5000	-4.1856
83 1105	1.3785	2.5000	-4.1856
83 1086	1.2922	2.5000	-4.5077
84 1087	1.2922	1.5000	-4.5077
84 1088	1.2922	0.5000	-4.5077
84 1107	1.3785	0.5000	-4.1856
84 1106	1.3785	1.5000	-4.1856
84 1087	1.2922	1.5000	-4.5077
85 1088	1.2922	0.5000	-4.5077
85 1089	1.2922	-0.5000	-4.5077
85 1108	1.3785	-0.5000	-4.1856
85 1107	1.3785	0.5000	-4.1856
85 1088	1.2922	0.5000	-4.5077
86 1089	1.2922	-0.5000	-4.5077
86 1090	1.2922	-1.5000	-4.5077
86 1109	1.3785	-1.5000	-4.1856
86 1108	1.3785	-0.5000	-4.1856
86 1089	1.2922	-0.5000	-4.5077

trial 1 output: 28 of 137			
87 1090	1.2922	-1.5000	-4.5077
87 1091	1.2922	-2.5000	-4.5077
87 1110	1.3785	-2.5000	-4.1856
87 1109	1.3785	-1.5000	-4.1856
87 1090	1.2922	-1.5000	-4.5077
88 1091	1.2922	-2.5000	-4.5077
88 1092	1.2922	-3.5000	-4.5077
88 1111	1.3785	-3.5000	-4.1856
88 1110	1.3785	-2.5000	-4.1856
88 1091	1.2922	-2.5000	-4.5077
89 1092	1.2922	-3.5000	-4.5077
89 1093	1.2922	-4.5000	-4.5077
89 1112	1.3785	-4.5000	-4.1856
89 1111	1.3785	-3.5000	-4.1856
89 1092	1.2922	-3.5000	-4.5077
90 1093	1.2922	-4.5000	-4.5077
90 1094	1.2922	-5.5000	-4.5077
90 1113	1.3785	-5.5000	-4.1856
90 1112	1.3785	-4.5000	-4.1856
90 1093	1.2922	-4.5000	-4.5077
91 1095	1.3785	12.5000	-4.1856
91 1096	1.3785	11.5000	-4.1856
91 1115	1.4647	11.5000	-3.8637
91 1114	1.4647	12.5000	-3.8637
91 1095	1.3785	12.5000	-4.1856
92 1096	1.3785	11.5000	-4.1856
92 1097	1.3785	10.5000	-4.1856
92 1116	1.4647	10.5000	-3.8637
92 1115	1.4647	11.5000	-3.8637
92 1096	1.3785	11.5000	-4.1856
93 1097	1.3785	10.5000	-4.1856
93 1098	1.3785	9.5000	-4.1856
93 1117	1.4647	9.5000	-3.8637
93 1116	1.4647	10.5000	-3.8637
93 1097	1.3785	10.5000	-4.1856
94 1098	1.3785	9.5000	-4.1856
94 1099	1.3785	8.5000	-4.1856
94 1118	1.4647	8.5000	-3.8637
94 1117	1.4647	9.5000	-3.8637
94 1098	1.3785	9.5000	-4.1856
95 1099	1.3785	8.5000	-4.1856
95 1100	1.3785	7.5000	-4.1856
95 1119	1.4647	7.5000	-3.8637
95 1118	1.4647	8.5000	-3.8637
95 1099	1.3785	8.5000	-4.1856
96 1100	1.3785	7.5000	-4.1856
96 1101	1.3785	6.5000	-4.1856
96 1120	1.4647	6.5000	-3.8637

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trial 1 output: 29 of 137

99 1103	1.3785	4.5000	-4.1856
100 1104	1.3785	3.5000	-4.1856
100 1105	1.3785	2.5000	-4.1856
100 1124	1.4647	2.5000	-3.8637
100 1123	1.4647	3.5000	-3.8637
100 1104	1.3785	3.5000	-4.1856
101 1105	1.3785	2.5000	-4.1856
101 1106	1.3785	1.5000	-4.1856
101 1125	1.4647	1.5000	-3.8637
101 1124	1.4647	2.5000	-3.8637
101 1105	1.3785	2.5000	-4.1856
102 1106	1.3785	1.5000	-4.1856
102 1107	1.3785	0.5000	-4.1856
102 1126	1.4647	0.5000	-3.8637
102 1125	1.4647	1.5000	-3.8637
102 1106	1.3785	1.5000	-4.1856
103 1107	1.3785	0.5000	-4.1856
103 1109	1.3785	-0.5000	-4.1856
103 1127	1.4647	-0.5000	-3.8637
103 1126	1.4647	0.5000	-3.8637
103 1107	1.3785	0.5000	-4.1856
104 1108	1.3785	-0.5000	-4.1856
104 1109	1.3785	-1.5000	-4.1856
104 1128	1.4647	-1.5000	-3.8637
104 1127	1.4647	-0.5000	-3.8637
104 1108	1.3785	-0.5000	-4.1856
105 1109	1.3785	-1.5000	-4.1856
105 1110	1.3785	-2.5000	-4.1856
105 1129	1.4647	-2.5000	-3.8637
105 1128	1.4647	-1.5000	-3.8637
105 1109	1.3785	-1.5000	-4.1856
106 1110	1.3785	-2.5000	-4.1856
106 1111	1.3785	-3.5000	-4.1856
106 1130	1.4647	-3.5000	-3.8637
106 1129	1.4647	-2.5000	-3.8637
106 1110	1.3785	-2.5000	-4.1856
107 1111	1.3785	-3.5000	-4.1856
107 1112	1.3785	-4.5000	-4.1856
107 1131	1.4647	-4.5000	-3.8637
107 1130	1.4647	-3.5000	-3.8637
107 1111	1.3785	-3.5000	-4.1856
108 1112	1.3785	-4.5000	-4.1856
108 1113	1.3785	-5.5000	-4.1856
108 1132	1.4647	-5.5000	-3.8637
108 1131	1.4647	-4.5000	-3.8637
108 1112	1.3785	-4.5000	-4.1856
109 1114	1.4647	12.5000	-3.8637
109 1115	1.4647	11.5000	-3.8637
109 1134	1.5510	11.5000	-3.5418
109 1133	1.5510	12.5000	-3.5418
109 1114	1.4647	12.5000	-3.8637
110 1115	1.4647	11.5000	-3.8637
110 1116	1.4647	10.5000	-3.8637
110 1135	1.5510	10.5000	-3.5418
110 1134	1.5510	11.5000	-3.5418
110 1115	1.4647	11.5000	-3.8637
111 1116	1.4647	10.5000	-3.8637
111 1117	1.4647	9.5000	-3.8637
111 1136	1.5510	9.5000	-3.5418
111 1135	1.5510	10.5000	-3.5418
111 1116	1.4647	10.5000	-3.8637
112 1117	1.4647	9.5000	-3.8637
112 1118	1.4647	8.5000	-3.8637
112 1137	1.5510	8.5000	-3.5418

trial 1 output: 30 of 137

112 1136	1.5510	9.5000	-3.5418
112 1117	1.4647	9.5000	-3.8637
113 1118	1.4647	8.5000	-3.8637
113 1119	1.4647	7.5000	-3.8637
113 1138	1.5510	7.5000	-3.5418
113 1137	1.5510	8.5000	-3.5418
113 1118	1.4647	8.5000	-3.8637
114 1119	1.4647	7.5000	-3.8637
114 1120	1.4647	6.5000	-3.8637
114 1139	1.5510	6.5000	-3.5418
114 1138	1.5510	7.5000	-3.5418
114 1119	1.4647	7.5000	-3.8637
115 1120	1.4647	6.5000	-3.8637
115 1121	1.4647	5.5000	-3.8637
115 1140	1.5510	5.5000	-3.5418
115 1139	1.5510	6.5000	-3.5418
115 1120	1.4647	6.5000	-3.8637
116 1121	1.4647	5.5000	-3.8637
116 1122	1.4647	4.5000	-3.8637
116 1141	1.5510	4.5000	-3.5418
116 1140	1.5510	5.5000	-3.5418
116 1121	1.4647	5.5000	-3.8637
117 1122	1.4647	4.5000	-3.8637
117 1123	1.4647	3.5000	-3.8637
117 1142	1.5510	3.5000	-3.5418
117 1141	1.5510	4.5000	-3.5418
117 1122	1.4647	4.5000	-3.8637
118 1123	1.4647	3.5000	-3.8637
118 1124	1.4647	2.5000	-3.8637
118 1143	1.5510	2.5000	-3.5418
118 1142	1.5510	3.5000	-3.5418
118 1123	1.4647	3.5000	-3.8637
119 1124	1.4647	2.5000	-3.8637
119 1125	1.4647	1.5000	-3.8637
119 1144	1.5510	1.5000	-3.5418
119 1143	1.5510	2.5000	-3.5418
119 1124	1.4647	2.5000	-3.8637
120 1125	1.4647	1.5000	-3.8637
120 1126	1.4647	0.5000	-3.8637
120 1145	1.5510	0.5000	-3.5418
120 1144	1.5510	1.5000	-3.5418
120 1125	1.4647	1.5000	-3.8637
121 1126	1.4647	0.5000	-3.8637
121 1127	1.4647	-0.5000	-3.8637
121 1146	1.5510	-0.5000	-3.5418
121 1145	1.5510	0.5000	-3.5418
121 1126	1.4647	0.5000	-3.8637
122 1127	1.4647	-0.5000	-3.8637
122 1128	1.4647	-1.5000	-3.8637
122 1147	1.5510	-1.5000	-3.5418
122 1146	1.5510	-0.5000	-3.5418
122 1127	1.4647	-0.5000	-3.8637
123 1128	1.4647	-1.5000	-3.8637
123 1129	1.4647	-2.5000	-3.8637
123 1148	1.5510	-2.5000	-3.5418
123 1147	1.5510	-1.5000	-3.5418
123 1128	1.4647	-1.5000	-3.8637
124 1129	1.4647	-2.5000	-3.8637
124 1130	1.4647	-3.5000	-3.8637
124 1149	1.5510	-3.5000	-3.5418
124 1148	1.5510	-2.5000	-3.5418
124 1139	1.4647	-2.5000	-3.8637
125 1130	1.4647	-3.5000	-3.8637
125 1131	1.4647	-4.5000	-3.8637

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trial 1 output: 31 of 137

125 1150	1.5510	-4.5000	-3.5418
125 1149	1.5510	-3.5000	-3.5418
125 1130	1.4647	-3.5000	-3.8637
126 1131	1.4647	-4.5000	-3.8637
126 1132	1.4647	-5.5000	-3.8637
126 1151	1.5510	-5.5000	-3.5418
126 1150	1.5510	-4.5000	-3.5418
126 1131	1.4647	-4.5000	-3.8637
127 1133	1.5510	12.5000	-3.5418
127 1134	1.5510	11.5000	-3.5418
127 1153	1.6373	11.5000	-3.2197
127 1152	1.6373	12.5000	-3.2197
127 1133	1.5510	12.5000	-3.5418
128 1134	1.5510	11.5000	-3.5418
128 1135	1.5510	10.5000	-3.5418
128 1154	1.6373	10.5000	-3.2197
128 1153	1.6373	11.5000	-3.2197
128 1134	1.5510	11.5000	-3.5418
129 1135	1.5510	10.5000	-3.5418
129 1136	1.5510	9.5000	-3.5418
129 1155	1.6373	9.5000	-3.2197
129 1154	1.6373	10.5000	-3.2197
129 1135	1.5510	10.5000	-3.5418
130 1136	1.5510	9.5000	-3.5418
130 1137	1.5510	8.5000	-3.5418
130 1156	1.6373	8.5000	-3.2197
130 1155	1.6373	9.5000	-3.2197
130 1136	1.5510	9.5000	-3.5418
131 1137	1.5510	8.5000	-3.5418
131 1138	1.5510	7.5000	-3.5418
131 1157	1.6373	7.5000	-3.2197
131 1156	1.6373	8.5000	-3.2197
131 1137	1.5510	8.5000	-3.5418
132 1138	1.5510	7.5000	-3.5418
132 1139	1.5510	6.5000	-3.5418
132 1158	1.6373	6.5000	-3.2197
132 1157	1.6373	7.5000	-3.2197
132 1138	1.5510	7.5000	-3.5418
133 1139	1.5510	6.5000	-3.5418
133 1140	1.5510	5.5000	-3.5418
133 1159	1.6373	5.5000	-3.2197
133 1158	1.6373	6.5000	-3.2197
133 1139	1.5510	6.5000	-3.5418
134 1140	1.5510	5.5000	-3.5418
134 1141	1.5510	4.5000	-3.5418
134 1160	1.6373	4.5000	-3.2197
134 1159	1.6373	5.5000	-3.2197
134 1140	1.5510	5.5000	-3.5418
135 1141	1.5510	4.5000	-3.5418
135 1142	1.5510	3.5000	-3.5418
135 1161	1.6373	3.5000	-3.2197
135 1160	1.6373	4.5000	-3.2197
135 1141	1.5510	4.5000	-3.5418
136 1142	1.5510	3.5000	-3.5418
136 1143	1.5510	2.5000	-3.5418
136 1162	1.6373	2.5000	-3.2197
136 1161	1.6373	3.5000	-3.2197
136 1142	1.5510	3.5000	-3.5418
137 1143	1.5510	2.5000	-3.5418
137 1144	1.5510	1.5000	-3.5418
137 1163	1.6373	1.5000	-3.2197
137 1162	1.6373	2.5000	-3.2197
137 1143	1.5510	2.5000	-3.5418
138 1144	1.5510	1.5000	-3.5418

trial 1 output: 32 of 137

138 1145	1.5510	0.5000	-3.5418
138 1146	1.6373	0.5000	-3.2197
138 1163	1.6373	1.5000	-3.2197
138 1144	1.5510	1.5000	-3.5418
139 1145	1.5510	0.5000	-3.5418
139 1146	1.5510	-0.5000	-3.5418
139 1165	1.6373	-0.5000	-3.2197
139 1164	1.6373	0.5000	-3.2197
139 1145	1.5510	0.5000	-3.5418
140 1146	1.5510	-0.5000	-3.5418
140 1147	1.5510	-1.5000	-3.5418
140 1166	1.6373	-1.5000	-3.2197
140 1165	1.6373	-0.5000	-3.2197
140 1146	1.5510	-0.5000	-3.5418
141 1147	1.5510	-1.5000	-3.5418
141 1148	1.5510	-2.5000	-3.5418
141 1167	1.6373	-2.5000	-3.2197
141 1166	1.6373	-1.5000	-3.2197
141 1147	1.5510	-1.5000	-3.5418
142 1148	1.5510	-2.5000	-3.5418
142 1149	1.5510	-3.5000	-3.5418
142 1168	1.6373	-3.5000	-3.2197
142 1167	1.6373	-2.5000	-3.2197
142 1148	1.5510	-2.5000	-3.5418
143 1149	1.5510	-3.5000	-3.5418
143 1150	1.5510	-4.5000	-3.5418
143 1169	1.6373	-4.5000	-3.2197
143 1168	1.6373	-3.5000	-3.2197
143 1149	1.5510	-3.5000	-3.5418
144 1150	1.5510	-4.5000	-3.5418
144 1151	1.5510	-5.5000	-3.5418
144 1170	1.6373	-5.5000	-3.2197
144 1169	1.6373	-4.5000	-3.2197
144 1150	1.5510	-4.5000	-3.5418
145 1152	1.6373	12.5000	-3.2197
145 1153	1.6373	11.5000	-3.2197
145 1172	1.7235	11.5000	-2.8978
145 1171	1.7235	12.5000	-2.8978
145 1152	1.6373	12.5000	-3.2197
146 1153	1.6373	11.5000	-3.2197
146 1154	1.6373	10.5000	-3.2197
146 1173	1.7235	10.5000	-2.8978
146 1172	1.7235	11.5000	-2.8978
146 1153	1.6373	11.5000	-3.2197
147 1154	1.6373	10.5000	-3.2197
147 1155	1.6373	9.5000	-3.2197
147 1174	1.7235	9.5000	-2.8978

trial 1 output: 33 of 137

151 1158 1.6373 6.5000 -3.2197
151 1159 1.6373 5.5000 -3.2197
151 1176 1.7235 5.5000 -2.8978
151 1177 1.7235 6.5000 -2.8978
151 1158 1.6373 6.5000 -3.2197

152 1159 1.6373 5.5000 -3.2197
152 1160 1.6373 4.5000 -3.2197
152 1179 1.7235 4.5000 -2.8978
152 1178 1.7235 5.5000 -2.8978
152 1159 1.6373 5.5000 -3.2197

153 1160 1.6373 4.5000 -3.2197
153 1161 1.6373 3.5000 -3.2197
153 1180 1.7235 3.5000 -2.8978
153 1179 1.7235 4.5000 -2.8978
153 1160 1.6373 4.5000 -3.2197

154 1161 1.6373 3.5000 -3.2197
154 1162 1.6373 2.5000 -3.2197
154 1181 1.7235 2.5000 -2.8978
154 1180 1.7235 3.5000 -2.8978
154 1161 1.6373 3.5000 -3.2197

155 1162 1.6373 2.5000 -3.2197
155 1163 1.6373 1.5000 -3.2197
155 1182 1.7235 1.5000 -2.8978
155 1181 1.7235 2.5000 -2.8978
155 1162 1.6373 2.5000 -3.2197

156 1163 1.6373 1.5000 -3.2197
156 1164 1.6373 0.5000 -3.2197
156 1183 1.7235 0.5000 -2.8978
156 1182 1.7235 1.5000 -2.8978
156 1163 1.6373 1.5000 -3.2197

157 1164 1.6373 0.5000 -3.2197
157 1165 1.6373 -0.5000 -3.2197
157 1184 1.7235 -0.5000 -2.8978
157 1183 1.7235 0.5000 -2.8978
157 1164 1.6373 0.5000 -3.2197

158 1165 1.6373 -0.5000 -3.2197
158 1166 1.6373 -1.5000 -3.2197
158 1185 1.7235 -1.5000 -2.8978
158 1184 1.7235 -0.5000 -2.8978
158 1165 1.6373 -0.5000 -3.2197

159 1166 1.6373 -1.5000 -3.2197
159 1167 1.6373 -2.5000 -3.2197
159 1186 1.7235 -2.5000 -2.8978
159 1185 1.7235 -1.5000 -2.8978
159 1166 1.6373 -1.5000 -3.2197

160 1167 1.6373 -2.5000 -3.2197
160 1168 1.6373 -3.5000 -3.2197
160 1187 1.7235 -3.5000 -2.8978
160 1186 1.7235 -2.5000 -2.8978
160 1167 1.6373 -2.5000 -3.2197

161 1168 1.6373 -3.5000 -3.2197
161 1169 1.6373 -4.5000 -3.2197
161 1188 1.7235 -4.5000 -2.8978
161 1187 1.7235 -3.5000 -2.8978
161 1168 1.6373 -3.5000 -3.2197

162 1169 1.6373 -4.5000 -3.2197
162 1170 1.6373 -5.5000 -3.2197
162 1189 1.7235 -5.5000 -2.8978
162 1188 1.7235 -4.5000 -2.8978
162 1169 1.6373 -4.5000 -3.2197

163 1171 1.7235 12.5000 -2.8978
163 1172 1.7235 11.5000 -2.8978
163 1191 1.8098 11.5000 -2.5758
163 1190 1.8098 12.5000 -2.5758
163 1171 1.7235 12.5000 -2.8978

trial 1 output: 34 of 137

164 1172 1.7235 11.5000 -2.8978
164 1173 1.7235 10.5000 -2.8978
164 1192 1.8098 10.5000 -2.5758
164 1191 1.8098 11.5000 -2.5758
164 1172 1.7235 11.5000 -2.8978

165 1173 1.7235 10.5000 -2.8978
165 1174 1.7235 9.5000 -2.8978
165 1193 1.8098 9.5000 -2.5758
165 1192 1.8098 10.5000 -2.5758
165 1173 1.7235 10.5000 -2.8978

166 1174 1.7235 9.5000 -2.8978
166 1175 1.7235 8.5000 -2.8978
166 1194 1.8098 8.5000 -2.5758
166 1193 1.8098 9.5000 -2.5758
166 1174 1.7235 9.5000 -2.8978

167 1175 1.7235 8.5000 -2.8978
167 1176 1.7235 7.5000 -2.8978
167 1195 1.8098 7.5000 -2.5758
167 1194 1.8098 8.5000 -2.5758
167 1175 1.7235 8.5000 -2.8978

168 1176 1.7235 7.5000 -2.8978
168 1177 1.7235 6.5000 -2.8978
168 1196 1.8098 6.5000 -2.5758
168 1195 1.8098 7.5000 -2.5758
168 1176 1.7235 7.5000 -2.8978

169 1177 1.7235 6.5000 -2.8978
169 1178 1.7235 5.5000 -2.8978
169 1197 1.8098 5.5000 -2.5758
169 1196 1.8098 6.5000 -2.5758
169 1177 1.7235 6.5000 -2.8978

170 1178 1.7235 5.5000 -2.8978
170 1179 1.7235 4.5000 -2.8978
170 1198 1.8098 4.5000 -2.5758
170 1197 1.8098 5.5000 -2.5758
170 1178 1.7235 5.5000 -2.8978

171 1179 1.7235 4.5000 -2.8978
171 1180 1.7235 3.5000 -2.8978
171 1199 1.8098 3.5000 -2.5758
171 1198 1.8098 4.5000 -2.5758
171 1179 1.7235 4.5000 -2.8978

172 1180 1.7235 3.5000 -2.8978
172 1181 1.7235 2.5000 -2.8978
172 1200 1.8098 2.5000 -2.5758
172 1199 1.8098 3.5000 -2.5758
172 1180 1.7235 3.5000 -2.8978

173 1181 1.7235 2.5000 -2.8978
173 1182 1.7235 1.5000 -2.8978
173 1201 1.8098 1.5000 -2.5758
173 1200 1.8098 2.5000 -2.5758
173 1181 1.7235 2.5000 -2.8978

174 1182 1.7235 1.5000 -2.8978
174 1183 1.7235 0.5000 -2.8978
174 1202 1.8098 0.5000 -2.5758
174 1201 1.8098 1.5000 -2.5758
174 1182 1.7235 1.5000 -2.8978

175 1183 1.7235 0.5000 -2.8978
175 1184 1.7235 -0.5000 -2.8978
175 1203 1.8098 -0.5000 -2.5758
175 1202 1.8098 0.5000 -2.5758
175 1183 1.7235 0.5000 -2.8978

176 1184 1.7235 -0.5000 -2.8978
176 1185 1.7235 -1.5000 -2.8978
176 1204 1.8098 -1.5000 -2.5758
176 1203 1.8098 -0.5000 -2.5758

trial 1 output: 35 of 137

176 1184 1.7235 -0.5000 -2.8978
177 1185 1.7235 -1.5000 -2.8978
177 1186 1.7235 -2.5000 -2.8978
177 1205 1.8098 -2.5000 -2.5758
177 1204 1.8098 -1.5000 -2.5758
177 1185 1.7235 -1.5000 -2.8978

178 1186 1.7235 -2.5000 -2.8978
178 1187 1.7235 -3.5000 -2.8978
178 1206 1.8098 -3.5000 -2.5758
178 1205 1.8098 -2.5000 -2.5758
178 1186 1.7235 -2.5000 -2.8978

179 1187 1.7235 -3.5000 -2.8978
179 1188 1.7235 -4.5000 -2.8978
179 1207 1.8098 -4.5000 -2.5758
179 1206 1.8098 -3.5000 -2.5758
179 1187 1.7235 -3.5000 -2.8978

180 1188 1.7235 -4.5000 -2.8978
180 1189 1.7235 -5.5000 -2.8978
180 1208 1.8098 -5.5000 -2.5758
180 1207 1.8098 -4.5000 -2.5758
180 1188 1.7235 -4.5000 -2.8978

181 1190 1.8098 12.5000 -2.5758
181 1191 1.8098 11.5000 -2.5758
181 1210 1.8961 11.5000 -2.2538
181 1209 1.8961 12.5000 -2.2538
181 1190 1.8098 12.5000 -2.5758

182 1191 1.8098 11.5000 -2.5758
182 1192 1.8098 10.5000 -2.5758
182 1211 1.8961 10.5000 -2.2538
182 1210 1.8961 11.5000 -2.2538
182 1191 1.8098 11.5000 -2.5758

183 1192 1.8098 10.5000 -2.5758
183 1193 1.8098 9.5000 -2.5758
183 1212 1.8961 9.5000 -2.2538
183 1211 1.8961 10.5000 -2.2538
183 1192 1.8098 10.5000 -2.5758

184 1193 1.8098 9.5000 -2.5758
184 1194 1.8098 8.5000 -2.5758
184 1213 1.8961 8.5000 -2.2538
184 1212 1.8961 9.5000 -2.2538
184 1193 1.8098 9.5000 -2.5758

185 1194 1.8098 8.5000 -2.5758
185 1195 1.8098 7.5000 -2.5758
185 1214 1.8961 7.5000 -2.2538
185 1213 1.8961 8.5000 -2.2538
185 1194 1.8098 8.5000 -2.5758

186 1195 1.8098 7.5000 -2.5758
186 1196 1.8098 6.5000 -2.5758
186 1215 1.8961 6.5000 -2.2538
186 1214 1.8961 7.5000 -2.2538
186 1195 1.8098 7.5000 -2.5758

187 1196 1.8098 6.5000 -2.5758
187 1197 1.8098 5.5000 -2.5758
187 1216 1.8961 5.5000 -2.2538
187 1215 1.8961 6.5000 -2.2538
187 1196 1.8098 6.5000 -2.5758

188 1197 1.8098 5.5000 -2.5758
188 1198 1.8098 4.5000 -2.5758
188 1217 1.8961 4.5000 -2.2538
188 1216 1.8961 5.5000 -2.2538
188 1197 1.8098 5.5000 -2.5758

189 1198 1.8098 4.5000 -2.5758
189 1199 1.8098 3.5000 -2.5758
189 1218 1.8961 3.5000 -2.2538

trial 1 output: 36 of 137

189 1217 1.8961 4.5000 -2.2538
189 1198 1.8098 4.5000 -2.5758

190 1199 1.8098 3.5000 -2.5758
190 1200 1.8098 2.5000 -2.5758
190 1219 1.8961 2.5000 -2.2538
190 1218 1.8961 3.5000 -2.2538
190 1199 1.8098 3.5000 -2.5758

191 1200 1.8098 2.5000 -2.5758
191 1201 1.8098 1.5000 -2.5758
191 1220 1.8961 1.5000 -2.2538
191 1219 1.8961 2.5000 -2.2538
191 1200 1.8098 2.5000 -2.5758

192 1201 1.8098 1.5000 -2.5758
192 1202 1.8098 0.5000 -2.5758
192 1221 1.8961 0.5000 -2.2538
192 1220 1.8961 1.5000 -2.2538
192 1201 1.8098 1.5000 -2.5758

193 1202 1.8098 0.5000 -2.5758
193 1203 1.8098 -0.5000 -2.5758
193 1222 1.8961 -0.5000 -2.2538
193 1221 1.8961 0.5000 -2.2538
193 1202 1.8098 0.5000 -2.5758

194 1203 1.8098 -0.5000 -2.5758
194 1204 1.8098 -1.5000 -2.5758
194 1223 1.8961 -1.5000 -2.2538
194 1222 1.8961 -0.5000 -2.2538
194 1203 1.8098 -0.5000 -2.5758

195 1204 1.8098 -1.5000 -2.5758
195 1205 1.8098 -2.5000 -2.5758
195 1224 1.8961 -2.5000 -2.2538
195 1223 1.8961 -1.5000 -2.2538
195 1204 1.8098 -1.5000 -2.5758

196 1205 1.8098 -2.5000 -2.5758
196 1206 1.8098 -3.5000 -2.5758
196 1225 1.8961 -3.5000 -2.2538
196 1224 1.8961 -2.5000 -2.2538
196 1205 1.8098 -2.5000 -2.5758

197 1206 1.8098 -3.5000 -2.5758
197 1207 1.8098 -4.5000 -2.5758
197 1226 1.8961 -4.5000 -2.2538
197 1225 1.8961 -3.5000 -2.2538
197 1206 1.8098 -3.5000 -2.5758

198 1207 1.8098 -4.5000 -2.5758
198 1208 1.8098 -5.5000 -2.5758
198 1227 1.8961 -5.5000 -2.2538
198 1226 1.8961 -4.5000 -2.2538
198 1207 1.8098 -4.5000 -2.5758

199 1209 1.8961 12.5000 -2.2538
199 1210 1.8961 11.5000 -2.2538
199 1229 1.8961 11.5000 -2.2538
199 1228 1.8961 12.5000 -2.2538
199 1209 1.8961 12.5000 -2.2538

200 1210 1.8961 11.5000 -2.2538
200 1211 1.8961 10.5000 -2.2538
200 1230 1.8961 10.5000 -2.2538
200 1229 1.8961 11.5000 -2.2538
200 1210 1.8961 11.5000 -2.2538

201 1211 1.8961 10.5000 -2.2538
201 1212 1.8961 9.5000 -2.2538
201 1231 1.8961 9.5000 -2.2538
201 1230 1.8961 10.5000 -2.2538
201 1211 1.8961 10.5000 -2.2538

202 1212 1.8961 9.5000 -2.2538
202 1213 1.8961 8.5000 -2.2538

Use

trial 1 output: 37 of 137			
202 1232	1.9824	8.5000	-1.9319
202 1231	1.9824	9.5000	-1.9319
202 1212	1.8961	9.5000	-2.2538
203 1213	1.8961	8.5000	-2.2538
203 1214	1.8961	7.5000	-2.2538
203 1233	1.9824	7.5000	-1.9319
203 1232	1.9824	8.5000	-1.9319
203 1213	1.8961	8.5000	-2.2538
204 1214	1.8961	7.5000	-2.2538
204 1215	1.8961	6.5000	-2.2538
204 1234	1.9824	6.5000	-1.9319
204 1233	1.9824	7.5000	-1.9319
204 1214	1.8961	7.5000	-2.2538
205 1215	1.8961	6.5000	-2.2538
205 1216	1.8961	5.5000	-2.2538
205 1235	1.9824	5.5000	-1.9319
205 1234	1.9824	6.5000	-1.9319
205 1215	1.8961	6.5000	-2.2538
206 1216	1.8961	5.5000	-2.2538
206 1217	1.8961	4.5000	-2.2538
206 1236	1.9824	4.5000	-1.9319
206 1235	1.9824	5.5000	-1.9319
206 1216	1.8961	5.5000	-2.2538
207 1217	1.8961	4.5000	-2.2538
207 1218	1.8961	3.5000	-2.2538
207 1237	1.9824	3.5000	-1.9319
207 1236	1.9824	4.5000	-1.9319
207 1217	1.8961	4.5000	-2.2538
208 1218	1.8961	3.5000	-2.2538
208 1219	1.8961	2.5000	-2.2538
208 1238	1.9824	2.5000	-1.9319
208 1237	1.9824	3.5000	-1.9319
208 1218	1.8961	3.5000	-2.2538
209 1219	1.8961	2.5000	-2.2538
209 1220	1.8961	1.5000	-2.2538
209 1239	1.9824	1.5000	-1.9319
209 1238	1.9824	2.5000	-1.9319
209 1219	1.8961	2.5000	-2.2538
210 1220	1.8961	1.5000	-2.2538
210 1221	1.8961	0.5000	-2.2538
210 1240	1.9824	0.5000	-1.9319
210 1239	1.9824	1.5000	-1.9319
210 1220	1.8961	1.5000	-2.2538
211 1221	1.8961	0.5000	-2.2538
211 1222	1.8961	-0.5000	-2.2538
211 1241	1.9824	-0.5000	-1.9319
211 1240	1.9824	0.5000	-1.9319
211 1221	1.8961	0.5000	-2.2538
212 1222	1.8961	-0.5000	-2.2538
212 1223	1.8961	-1.5000	-2.2538
212 1242	1.9824	-1.5000	-1.9319
212 1241	1.9824	-0.5000	-1.9319
212 1222	1.8961	-0.5000	-2.2538
213 1223	1.8961	-1.5000	-2.2538
213 1224	1.8961	-2.5000	-2.2538
213 1243	1.9824	-2.5000	-1.9319
213 1242	1.9824	-1.5000	-1.9319
213 1223	1.8961	-1.5000	-2.2538
214 1224	1.8961	-2.5000	-2.2538
214 1225	1.8961	-3.5000	-2.2538
214 1244	1.9824	-3.5000	-1.9319
214 1243	1.9824	-2.5000	-1.9319
214 1224	1.8961	-2.5000	-2.2538
215 1225	1.8961	-3.5000	-2.2538

trial 1 output: 38 of 137			
215 1226	1.8961	-4.5000	-2.2538
215 1245	1.9824	-4.5000	-1.9319
215 1244	1.9824	-3.5000	-1.9319
215 1225	1.8961	-3.5000	-2.2538
216 1226	1.8961	-4.5000	-2.2538
216 1227	1.8961	-5.5000	-2.2538
216 1246	1.9824	-5.5000	-1.9319
216 1245	1.9824	-4.5000	-1.9319
216 1226	1.8961	-4.5000	-2.2538
217 1228	1.9824	12.5000	-1.9319
217 1229	1.9824	11.5000	-1.9319
217 1248	2.0686	11.5000	-1.6099
217 1247	2.0686	12.5000	-1.6099
217 1228	1.9824	12.5000	-1.9319
218 1229	1.9824	11.5000	-1.9319
218 1230	1.9824	10.5000	-1.9319
218 1249	2.0686	10.5000	-1.6099
218 1248	2.0686	11.5000	-1.6099
218 1229	1.9824	11.5000	-1.9319
219 1230	1.9824	10.5000	-1.9319
219 1231	1.9824	9.5000	-1.9319
219 1250	2.0686	9.5000	-1.6099
219 1249	2.0686	10.5000	-1.6099
219 1230	1.9824	10.5000	-1.9319
220 1231	1.9824	9.5000	-1.9319
220 1232	1.9824	8.5000	-1.9319
220 1251	2.0686	8.5000	-1.6099
220 1250	2.0686	9.5000	-1.6099
220 1231	1.9824	9.5000	-1.9319
221 1232	1.9824	8.5000	-1.9319
221 1233	1.9824	7.5000	-1.9319
221 1252	2.0686	7.5000	-1.6099
221 1251	2.0686	8.5000	-1.6099
221 1232	1.9824	8.5000	-1.9319
222 1233	1.9824	7.5000	-1.9319
222 1234	1.9824	6.5000	-1.9319
222 1253	2.0686	6.5000	-1.6099
222 1252	2.0686	7.5000	-1.6099
222 1233	1.9824	7.5000	-1.9319
223 1234	1.9824	6.5000	-1.9319
223 1235	1.9824	5.5000	-1.9319
223 1254	2.0686	5.5000	-1.6099
223 1253	2.0686	6.5000	-1.6099
223 1234	1.9824	6.5000	-1.9319
224 1235	1.9824	5.5000	-1.9319
224 1236	1.9824	4.5000	-1.9319
224 1255	2.0686	4.5000	-1.6099
224 1254	2.0686	5.5000	-1.6099
224 1235	1.9824	5.5000	-1.9319
225 1236	1.9824	4.5000	-1.9319
225 1237	1.9824	3.5000	-1.9319
225 1256	2.0686	3.5000	-1.6099
225 1255	2.0686	4.5000	-1.6099
225 1236	1.9824	4.5000	-1.9319
226 1237	1.9824	3.5000	-1.9319
226 1238	1.9824	2.5000	-1.9319
226 1257	2.0686	2.5000	-1.6099
226 1256	2.0686	3.5000	-1.6099
226 1237	1.9824	3.5000	-1.9319
227 1238	1.9824	2.5000	-1.9319
227 1239	1.9824	1.5000	-1.9319
227 1258	2.0686	1.5000	-1.6099
227 1257	2.0686	2.5000	-1.6099
227 1238	1.9824	2.5000	-1.9319

Use

Use

trial 1 output: 39 of 137			
228 1239	1.9824	1.5000	-1.9319
228 1240	1.9824	0.5000	-1.9319
228 1259	2.0686	0.5000	-1.6099
228 1258	2.0686	1.5000	-1.6099
228 1239	1.9824	1.5000	-1.9319
229 1240	1.9824	0.5000	-1.9319
229 1241	1.9824	-0.5000	-1.9319
229 1260	2.0686	-0.5000	-1.6099
229 1259	2.0686	0.5000	-1.6099
229 1240	1.9824	0.5000	-1.9319
230 1241	1.9824	-0.5000	-1.9319
230 1242	1.9824	-1.5000	-1.9319
230 1261	2.0686	-1.5000	-1.6099
230 1260	2.0686	-0.5000	-1.6099
230 1241	1.9824	-0.5000	-1.9319
231 1242	1.9824	-1.5000	-1.9319
231 1243	1.9824	-2.5000	-1.9319
231 1262	2.0686	-2.5000	-1.6099
231 1261	2.0686	-1.5000	-1.6099
231 1242	1.9824	-1.5000	-1.9319
232 1243	1.9824	-2.5000	-1.9319
232 1244	1.9824	-3.5000	-1.9319
232 1263	2.0686	-3.5000	-1.6099
232 1262	2.0686	-2.5000	-1.6099
232 1243	1.9824	-2.5000	-1.9319
233 1244	1.9824	-3.5000	-1.9319
233 1245	1.9824	-4.5000	-1.9319
233 1264	2.0686	-4.5000	-1.6099
233 1263	2.0686	-3.5000	-1.6099
233 1244	1.9824	-3.5000	-1.9319
234 1245	1.9824	-4.5000	-1.9319
234 1246	1.9824	-5.5000	-1.9319
234 1265	2.0686	-5.5000	-1.6099
234 1264	2.0686	-4.5000	-1.6099
234 1245	1.9824	-4.5000	-1.9319
235 1247	2.0686	12.5000	-1.6099
235 1248	2.0686	11.5000	-1.6099
235 1267	2.1549	11.5000	-1.2879
235 1266	2.1549	12.5000	-1.2879
235 1247	2.0686	12.5000	-1.6099
236 1248	2.0686	11.5000	-1.6099
236 1249	2.0686	10.5000	-1.6099
236 1268	2.1549	10.5000	-1.2879
236 1267	2.1549	11.5000	-1.2879
236 1248	2.0686	11.5000	-1.6099
237 1249	2.0686	10.5000	-1.6099
237 1250	2.0686	9.5000	-1.6099
237 1269	2.1549	9.5000	-1.2879
237 1268	2.1549	10.5000	-1.2879
237 1249	2.0686	10.5000	-1.6099
238 1250	2.0686	9.5000	-1.6099
238 1251	2.0686	8.5000	-1.6099
238 1270	2.1549	8.5000	-1.2879
238 1269	2.1549	9.5000	-1.2879
238 1250	2.0686	9.5000	-1.6099
239 1251	2.0686	8.5000	-1.6099
239 1252	2.0686	7.5000	-1.6099
239 1271	2.1549	7.5000	-1.2879
239 1270	2.1549	8.5000	-1.2879
239 1251	2.0686	8.5000	-1.6099
240 1252	2.0686	7.5000	-1.6099
240 1253	2.0686	6.5000	-1.6099
240 1272	2.1549	6.5000	-1.2879
240 1271	2.1549	7.5000	-1.2879
240 1252	2.0686	7.5000	-1.6099

trial 1 output: 40 of 137			
241 1253	2.0686	6.5000	-1.6099
241 1254	2.0686	5.5000	-1.6099
241 1273	2.1549	5.5000	-1.2879
241 1272	2.1549	6.5000	-1.2879
241 1253	2.0686	6.5000	-1.6099
242 1254	2.0686	5.5000	-1.6099
242 1255	2.0686	4.5000	-1.6099
242 1274	2.1549	4.5000	-1.2879
242 1273	2.1549	5.5000	-1.2879
242 1254	2.0686	5.5000	-1.6099
243 1255	2.0686	4.5000	-1.6099
243 1256	2.0686	3.5000	-1.6099
243 1275	2.1549	3.5000	-1.2879
243 1274	2.1549	4.5000	-1.2879
243 1255	2.0686	4.5000	-1.6099
244 1256	2.0686	3.5000	-1.6099
244 1257	2.0686	2.5000	-1.6099
244 1276	2.1549	2.5000	-1.2879
244 1275	2.1549	3.5000	-1.2879
244 1256	2.0686	3.5000	-1.6099
245 1257	2.0686	2.5000	-1.6099
245 1258	2.0686	1.5000	-1.6099
245 1277	2.1549	1.5000	-1.2879
245 1276	2.1549	2.5000	-1.2879
245 1257	2.0686	2.5000	-1.6099
246 1258	2.0686	1.5000	-1.6099
246 1259	2.0686	0.5000	-1.6099
246 1278	2.1549	0.5000	-1.2879
246 1277	2.1549	1.5000	-1.2879
246 1258	2.0686	1.5000	-1.6099
247 1259	2.0686	0.5000	-1.6099
247 1260	2.0686	-0.5000	-1.6099
247 1279	2.1549	-0.5000	-1.2879
247 1278	2.1549	0.5000	-1.2879
247 1259	2.0686	0.5000	-1.6099
248 1260	2.0686	-0.5000	-1.6099
248 1261	2.0686	-1.5000	-1.6099
248 1280	2.1549	-1.5000	-1.2879
248 1279	2.1549	-0.5000	-1.2879
248 1260	2.0686	-0.5000	-1.6099
249 1261	2.0686	-1.5000	-1.6099
249 1262	2.0686	-2.5000	-1.6099
249 1281	2.1549	-2.5000	-1.2879
249 1280	2.1549	-1.5000	-1.2879
249 1261	2.0686	-1.5000	-1.6099
250 1262	2.0686	-2.5000	-1.6099
250 1263	2.0686	-3.5000	-1.6099
250 1282	2.1549	-3.5000	-1.2879
250 1281	2.1549	-2.5000	-1.2879
250 1262	2.0686	-2.5000	-1.6099
251 1263	2.0686	-3.5000	-1.6099
251 1264	2.0686	-4.5000	-1.6099
251 1283	2.1549	-4.5000	-1.2879
251 1282	2.1549	-3.5000	-1.2879
251 1263	2.0686	-3.5000	-1.6099
252 1264	2.0686	-4.5000	-1.6099
252 1265	2.0686	-5.5000	-1.6099
252 1284	2.1549	-5.5000	-1.2879
252 1283	2.1549	-4.5000	-1.2879
252 1264	2.0686	-4.5000	-1.6099
253 1265	2.1549	12.5000	-1.2879
253 1267	2.1549	11.5000	-1.2879
253 1286	2.2412	11.5000	-0.9659
253 1285	2.2412	12.5000	-0.9659

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253 1266	2.1549	12.5000	-1.2879
254 1267	2.1549	11.5000	-1.2879
254 1268	2.1549	10.5000	-1.2879
254 1287	2.2412	10.5000	-0.9659
254 1286	2.2412	11.5000	-0.9659
254 1267	2.1549	11.5000	-1.2879
255 1268	2.1549	10.5000	-1.2879
255 1269	2.1549	9.5000	-1.2879
255 1288	2.2412	9.5000	-0.9659
255 1287	2.2412	10.5000	-0.9659
255 1268	2.1549	10.5000	-1.2879
256 1269	2.1549	9.5000	-1.2879
256 1270	2.1549	8.5000	-1.2879
256 1269	2.2412	8.5000	-0.9659
256 1288	2.2412	9.5000	-0.9659
256 1269	2.1549	9.5000	-1.2879
257 1270	2.1549	8.5000	-1.2879
257 1271	2.1549	7.5000	-1.2879
257 1290	2.2412	7.5000	-0.9659
257 1289	2.2412	8.5000	-0.9659
257 1270	2.1549	8.5000	-1.2879
258 1271	2.1549	7.5000	-1.2879
258 1272	2.1549	6.5000	-1.2879
258 1291	2.2412	6.5000	-0.9659
258 1290	2.2412	7.5000	-0.9659
258 1271	2.1549	7.5000	-1.2879
259 1272	2.1549	6.5000	-1.2879
259 1273	2.1549	5.5000	-1.2879
259 1292	2.2412	5.5000	-0.9659
259 1291	2.2412	6.5000	-0.9659
259 1272	2.1549	6.5000	-1.2879
260 1273	2.1549	5.5000	-1.2879
260 1274	2.1549	4.5000	-1.2879
260 1293	2.2412	4.5000	-0.9659
260 1292	2.2412	5.5000	-0.9659
260 1273	2.1549	5.5000	-1.2879
261 1274	2.1549	4.5000	-1.2879
261 1275	2.1549	3.5000	-1.2879
261 1294	2.2412	3.5000	-0.9659
261 1293	2.2412	4.5000	-0.9659
261 1274	2.1549	4.5000	-1.2879
262 1275	2.1549	3.5000	-1.2879
262 1276	2.1549	2.5000	-1.2879
262 1295	2.2412	2.5000	-0.9659
262 1294	2.2412	3.5000	-0.9659
262 1275	2.1549	3.5000	-1.2879
263 1276	2.1549	2.5000	-1.2879
263 1277	2.1549	1.5000	-1.2879
263 1296	2.2412	1.5000	-0.9659
263 1295	2.2412	2.5000	-0.9659
263 1276	2.1549	2.5000	-1.2879
264 1277	2.1549	1.5000	-1.2879
264 1278	2.1549	0.5000	-1.2879
264 1297	2.2412	0.5000	-0.9659
264 1296	2.2412	1.5000	-0.9659
264 1277	2.1549	1.5000	-1.2879
265 1278	2.1549	0.5000	-1.2879
265 1279	2.1549	-0.5000	-1.2879
265 1298	2.2412	-0.5000	-0.9659
265 1278	2.1549	0.5000	-1.2879
266 1279	2.1549	-0.5000	-1.2879
266 1290	2.1549	-1.5000	-1.2879
266 1299	2.2412	-1.5000	-0.9659

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266 1298	2.2412	-0.5000	-0.9659
266 1279	2.1549	-0.5000	-1.2879
267 1280	2.1549	-1.5000	-1.2879
267 1281	2.1549	-2.5000	-1.2879
267 1300	2.2412	-2.5000	-0.9659
267 1299	2.2412	-1.5000	-0.9659
267 1280	2.1549	-1.5000	-1.2879
268 1281	2.1549	-2.5000	-1.2879
268 1282	2.1549	-3.5000	-1.2879
268 1301	2.2412	-3.5000	-0.9659
268 1300	2.2412	-2.5000	-0.9659
268 1281	2.1549	-2.5000	-1.2879
269 1282	2.1549	-3.5000	-1.2879
269 1283	2.1549	-4.5000	-1.2879
269 1302	2.2412	-4.5000	-0.9659
269 1301	2.2412	-3.5000	-0.9659
269 1282	2.1549	-3.5000	-1.2879
270 1283	2.1549	-4.5000	-1.2879
270 1284	2.1549	-5.5000	-1.2879
270 1303	2.2412	-5.5000	-0.9659
270 1302	2.2412	-4.5000	-0.9659
270 1283	2.1549	-4.5000	-1.2879
271 1285	2.2412	12.5000	-0.9659
271 1286	2.2412	11.5000	-0.9659
271 1305	2.3274	11.5000	-0.6440
271 1304	2.3274	12.5000	-0.6440
271 1285	2.2412	12.5000	-0.9659
272 1286	2.2412	11.5000	-0.9659
272 1287	2.2412	10.5000	-0.9659
272 1306	2.3274	10.5000	-0.6440
272 1305	2.3274	11.5000	-0.6440
272 1286	2.2412	11.5000	-0.9659
273 1287	2.2412	10.5000	-0.9659
273 1288	2.2412	9.5000	-0.9659
273 1307	2.3274	9.5000	-0.6440
273 1306	2.3274	10.5000	-0.6440
273 1287	2.2412	10.5000	-0.9659
274 1288	2.2412	9.5000	-0.9659
274 1289	2.2412	8.5000	-0.9659
274 1308	2.3274	8.5000	-0.6440
274 1307	2.3274	9.5000	-0.6440
274 1288	2.2412	9.5000	-0.9659
275 1289	2.2412	8.5000	-0.9659
275 1290	2.2412	7.5000	-0.9659
275 1309	2.3274	7.5000	-0.6440
275 1308	2.3274	8.5000	-0.6440
275 1289	2.2412	8.5000	-0.9659
276 1290	2.2412	7.5000	-0.9659
276 1291	2.2412	6.5000	-0.9659
276 1310	2.3274	6.5000	-0.6440
276 1309	2.3274	7.5000	-0.6440
276 1290	2.2412	7.5000	-0.9659
277 1291	2.2412	6.5000	-0.9659
277 1292	2.2412	5.5000	-0.9659
277 1311	2.3274	5.5000	-0.6440
277 1310	2.3274	6.5000	-0.6440
277 1291	2.2412	6.5000	-0.9659
278 1292	2.2412	5.5000	-0.9659
278 1293	2.2412	4.5000	-0.9659
278 1312	2.3274	4.5000	-0.6440
278 1311	2.3274	5.5000	-0.6440
278 1292	2.2412	5.5000	-0.9659
279 1293	2.2412	4.5000	-0.9659
279 1294	2.2412	3.5000	-0.9659

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279 1313	2.3274	3.5000	-0.6440
279 1312	2.3274	4.5000	-0.6440
279 1293	2.2412	4.5000	-0.9659
280 1294	2.2412	3.5000	-0.9659
280 1295	2.2412	2.5000	-0.9659
280 1314	2.3274	2.5000	-0.6440
280 1313	2.3274	3.5000	-0.6440
280 1294	2.2412	3.5000	-0.9659
281 1295	2.2412	2.5000	-0.9659
281 1296	2.2412	1.5000	-0.9659
281 1315	2.3274	1.5000	-0.6440
281 1314	2.3274	2.5000	-0.6440
281 1295	2.2412	2.5000	-0.9659
282 1296	2.2412	1.5000	-0.9659
282 1297	2.2412	0.5000	-0.9659
282 1316	2.3274	0.5000	-0.6440
282 1315	2.3274	1.5000	-0.6440
282 1296	2.2412	1.5000	-0.9659
283 1297	2.2412	0.5000	-0.9659
283 1298	2.2412	-0.5000	-0.9659
283 1316	2.3274	-0.5000	-0.6440
283 1317	2.3274	0.5000	-0.6440
283 1297	2.2412	0.5000	-0.9659
284 1298	2.2412	-0.5000	-0.9659
284 1299	2.2412	-1.5000	-0.9659
284 1318	2.3274	-1.5000	-0.6440
284 1317	2.3274	-0.5000	-0.6440
284 1298	2.2412	-0.5000	-0.9659
285 1299	2.2412	-1.5000	-0.9659
285 1300	2.2412	-2.5000	-0.9659
285 1319	2.3274	-2.5000	-0.6440
285 1318	2.3274	-1.5000	-0.6440
285 1299	2.2412	-1.5000	-0.9659
286 1300	2.2412	-2.5000	-0.9659
286 1301	2.2412	-3.5000	-0.9659
286 1320	2.3274	-3.5000	-0.6440
286 1319	2.3274	-2.5000	-0.6440
286 1300	2.2412	-2.5000	-0.9659
287 1301	2.2412	-3.5000	-0.9659
287 1302	2.2412	-4.5000	-0.9659
287 1321	2.3274	-4.5000	-0.6440
287 1320	2.3274	-3.5000	-0.6440
287 1301	2.2412	-3.5000	-0.9659
288 1302	2.2412	-4.5000	-0.9659
288 1303	2.2412	-5.5000	-0.9659
288 1322	2.3274	-5.5000	-0.6440
288 1321	2.3274	-4.5000	-0.6440
288 1302	2.2412	-4.5000	-0.9659
289 1304	2.3274	12.5000	-0.6440
289 1305	2.3274	11.5000	-0.6440
289 1324	2.4137	11.5000	-0.3219
289 1323	2.4137	12.5000	-0.3219
289 1304	2.3274	12.5000	-0.6440
290 1305	2.3274	11.5000	-0.6440
290 1306	2.3274	10.5000	-0.6440
290 1325	2.4137	10.5000	-0.3219
290 1324	2.4137	11.5000	-0.3219
290 1305	2.3274	11.5000	-0.6440
291 1306	2.3274	10.5000	-0.6440
291 1307	2.3274	9.5000	-0.6440
291 1326	2.4137	9.5000	-0.3219
291 1325	2.4137	10.5000	-0.3219
291 1306	2.3274	10.5000	-0.6440
292 1307	2.3274	9.5000	-0.6440

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292 1308	2.3274	8.5000	-0.6440
292 1327	2.4137	8.5000	-0.3219
292 1326	2.4137	9.5000	-0.3219
292 1307	2.3274	9.5000	-0.6440
293 1308	2.3274	8.5000	-0.6440
293 1309	2.3274	7.5000	-0.6440
293 1328	2.4137	7.5000	-0.3219
293 1327	2.4137	8.5000	-0.3219
293 1308	2.3274	8.5000	-0.6440
294 1309	2.3274	7.5000	-0.6440
294 1310	2.3274	6.5000	-0.6440
294 1329	2.4137	6.5000	-0.3219
294 1328	2.4137	7.5000	-0.3219
294 1309	2.3274	7.5000	-0.6440
295 1310	2.3274	6.5000	-0.6440
295 1311	2.3274	5.5000	-0.6440
295 1330	2.4137	5.5000	-0.3219
295 1329	2.4137	6.5000	-0.3219
295 1310	2.3274	6.5000	-0.6440
296 1311	2.3274	5.5000	-0.6440
296 1312	2.3274	4.5000	-0.6440
296 1331	2.4137	4.5000	-0.3219
296 1330	2.4137	5.5000	-0.3219
296 1311	2.3274	5.5000	-0.6440
297 1312	2.3274	4.5000	-0.6440
297 1313	2.3274	3.5000	-0.6440
297 1332	2.4137	3.5000	-0.3219
297 1331	2.4137	4.5000	-0.3219
297 1312	2.3274	4.5000	-0.6440
298 1313	2.3274	3.5000	-0.6440
298 1314	2.3274	2.5000	-0.6440
298 1333	2.4137	2.5000	-0.3219
298 1332	2.4137	3.5000	-0.3219
298 1313	2.3274	3.5000	-0.6440
299 1314	2.3274	2.5000	-0.6440
299 1315	2.3274	1.5000	-0.6440
299 1334	2.4137	1.5000	-0.3219
299 1333	2.4137	2.5000	-0.3219
299 1314	2.3274	2.5000	-0.6440
300 1315	2.3274	1.5000	-0.6440
300 1316	2.3274	0.5000	-0.6440
300 1335	2.4137	0.5000	-0.3219
300 1334	2.4137	1.5000	-0.3219
300 1315	2.3274	1.5000	-0.6440
301 1316	2.3274	0.5000	-0.6440
301 1317	2.3274	-0.5000	-0.6440
301 1336	2.4137	-0.5000	-0.3219
301 1335	2.4137	0.5000	-0.3219
301 1316	2.3274	0.5000	-0.6440
302 1317	2.3274	-0.5000	-0.6440
302 1318	2.3274	-1.5000	-0.6440
302 1337	2.4137	-1.5000	-0.3219
302 1336	2.4137	-0.5000	-0.3219
302 1317	2.3274	-0.5000	-0.6440
303 1318	2.3274	-1.5000	-0.6440
303 1319	2.3274	-2.5000	-0.6440
303 1338	2.4137	-2.5000	-0.3219
303 1337	2.4137	-1.5000	-0.3219
303 1318	2.3274	-1.5000	-0.6440
304 1319	2.3274	-2.5000	-0.6440
304 1320	2.3274	-3.5000	-0.6440
304 1339	2.4137	-3.5000	-0.3219
304 1338	2.4137	-2.5000	-0.3219
304 1319	2.3274	-2.5000	-0.6440

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305 1320	2.3274	-3.5000	-0.6440
305 1321	2.3274	-4.5000	-0.6440
305 1340	2.4137	-4.5000	-0.3219
305 1339	2.4137	-3.5000	-0.3219
305 1320	2.3274	-3.5000	-0.6440
306 1321	2.3274	-4.5000	-0.6440
306 1322	2.3274	-5.5000	-0.6440
306 1341	2.4137	-5.5000	-0.3219
306 1340	2.4137	-4.5000	-0.3219
306 1321	2.3274	-4.5000	-0.6440
307 1323	2.4137	12.5000	-0.3219
307 1324	2.4137	11.5000	-0.3219
307 1343	2.5000	11.5000	-0.0000
307 1342	2.5000	12.5000	-0.0000
307 1323	2.4137	12.5000	-0.3219
308 1324	2.4137	11.5000	-0.3219
308 1325	2.4137	10.5000	-0.3219
308 1344	2.5000	10.5000	-0.0000
308 1343	2.5000	11.5000	-0.0000
308 1324	2.4137	11.5000	-0.3219
309 1325	2.4137	10.5000	-0.3219
309 1326	2.4137	9.5000	-0.3219
309 1345	2.5000	9.5000	-0.0000
309 1344	2.5000	10.5000	-0.0000
309 1325	2.4137	10.5000	-0.3219
310 1326	2.4137	9.5000	-0.3219
310 1327	2.4137	8.5000	-0.3219
310 1346	2.5000	8.5000	-0.0000
310 1345	2.5000	9.5000	-0.0000
310 1326	2.4137	9.5000	-0.3219
311 1327	2.4137	8.5000	-0.3219
311 1328	2.4137	7.5000	-0.3219
311 1347	2.5000	7.5000	-0.0000
311 1346	2.5000	8.5000	-0.0000
311 1327	2.4137	8.5000	-0.3219
312 1328	2.4137	7.5000	-0.3219
312 1329	2.4137	6.5000	-0.3219
312 1348	2.5000	6.5000	-0.0000
312 1347	2.5000	7.5000	-0.0000
312 1328	2.4137	7.5000	-0.3219
313 1329	2.4137	6.5000	-0.3219
313 1330	2.4137	5.5000	-0.3219
313 1349	2.5000	5.5000	-0.0000
313 1348	2.5000	6.5000	-0.0000
313 1329	2.4137	6.5000	-0.3219
314 1330	2.4137	5.5000	-0.3219
314 1331	2.4137	4.5000	-0.3219
314 1350	2.5000	4.5000	-0.0000
314 1349	2.5000	5.5000	-0.0000
314 1330	2.4137	5.5000	-0.3219
315 1331	2.4137	4.5000	-0.3219
315 1332	2.4137	3.5000	-0.3219
315 1351	2.5000	3.5000	-0.0000
315 1350	2.5000	4.5000	-0.0000
315 1331	2.4137	4.5000	-0.3219
316 1332	2.4137	3.5000	-0.3219
316 1333	2.4137	2.5000	-0.3219
316 1352	2.5000	2.5000	-0.0000
316 1351	2.5000	3.5000	-0.0000
316 1332	2.4137	3.5000	-0.3219
317 1333	2.4137	2.5000	-0.3219
317 1334	2.4137	1.5000	-0.3219
317 1353	2.5000	1.5000	-0.0000
317 1352	2.5000	2.5000	-0.0000
317 1333	2.4137	2.5000	-0.3219

trial 1 output: 46 of 137			
318 1334	2.4137	1.5000	-0.3219
318 1335	2.4137	0.5000	-0.3219
318 1354	2.5000	0.5000	-0.0000
318 1353	2.5000	1.5000	-0.0000
318 1334	2.4137	1.5000	-0.3219
319 1335	2.4137	0.5000	-0.3219
319 1336	2.4137	-0.5000	-0.3219
319 1355	2.5000	-0.5000	-0.0000
319 1354	2.5000	0.5000	-0.0000
319 1335	2.4137	0.5000	-0.3219
320 1336	2.4137	-0.5000	-0.3219
320 1337	2.4137	-1.5000	-0.3219
320 1356	2.5000	-1.5000	-0.0000
320 1355	2.5000	-0.5000	-0.0000
320 1336	2.4137	-0.5000	-0.3219
321 1337	2.4137	-1.5000	-0.3219
321 1338	2.4137	-2.5000	-0.3219
321 1357	2.5000	-2.5000	-0.0000
321 1356	2.5000	-1.5000	-0.0000
321 1337	2.4137	-1.5000	-0.3219
322 1338	2.4137	-2.5000	-0.3219
322 1339	2.4137	-3.5000	-0.3219
322 1358	2.5000	-3.5000	-0.0000
322 1357	2.5000	-2.5000	-0.0000
322 1338	2.4137	-2.5000	-0.3219
323 1339	2.4137	-3.5000	-0.3219
323 1340	2.4137	-4.5000	-0.3219
323 1359	2.5000	-4.5000	-0.0000
323 1358	2.5000	-3.5000	-0.0000
323 1339	2.4137	-3.5000	-0.3219
324 1340	2.4137	-4.5000	-0.3219
324 1341	2.4137	-5.5000	-0.3219
324 1360	2.5000	-5.5000	0.0000
324 1359	2.5000	-4.5000	-0.0000
324 1340	2.4137	-4.5000	-0.3219
OBJECT: brfc *Bow Ridge Fault (rectangle)			
ELV Vertex Name	X1	X2	X3
1 2000	-1.9125	6.1798	-5.1962
1 2001	-1.9994	5.6874	-5.1962
1 2014	-1.7532	5.6440	-4.7631
1 2013	-1.6663	6.1364	-4.7631
1 2000	-1.9125	6.1798	-5.1962
2 2001	-1.9994	5.6874	-5.1962
2 2002	-2.0862	5.1950	-5.1962
2 2015	-1.8400	5.1516	-4.7631
2 2014	-1.7532	5.6440	-4.7631
2 2001	-1.9994	5.6874	-5.1962
3 2002	-2.0862	5.1950	-5.1962
3 2003	-2.1730	4.7026	-5.1962
3 2016	-1.9268	4.6592	-4.7631
3 2015	-1.8400	5.1516	-4.7631
3 2002	-2.0862	5.1950	-5.1962
4 2003	-2.1730	4.7026	-5.1962
4 2004	-2.2598	4.2102	-5.1962
4 2017	-2.0136	4.1668	-4.7631
4 2016	-1.9268	4.6592	-4.7631
4 2003	-2.1730	4.7026	-5.1962
5 2004	-2.2598	4.2102	-5.1962
5 2005	-2.3467	3.7178	-5.1962
5 2018	-2.1005	3.6744	-4.7631
5 2017	-2.0136	4.1668	-4.7631
5 2004	-2.2598	4.2102	-5.1962

Bow Ridge Fault
(northern segment)
fault mesh

Joe

trial 1 output: 47 of 137			
6 2005	-2.3467	3.7178	-5.1962
6 2006	-2.4335	3.2254	-5.1962
6 2019	-2.1873	3.1820	-4.7631
6 2018	-2.1005	3.6744	-4.7631
6 2005	-2.3467	3.7178	-5.1962
7 2006	-2.4335	3.2254	-5.1962
7 2007	-2.5203	2.7330	-5.1962
7 2020	-2.2741	2.6896	-4.7631
7 2019	-2.1873	3.1820	-4.7631
7 2006	-2.4335	3.2254	-5.1962
8 2007	-2.5203	2.7330	-5.1962
8 2008	-2.6071	2.2406	-5.1962
8 2021	-2.3609	2.1971	-4.7631
8 2020	-2.2741	2.6896	-4.7631
8 2007	-2.5203	2.7330	-5.1962
9 2008	-2.6071	2.2406	-5.1962
9 2009	-2.6940	1.7482	-5.1962
9 2022	-2.4477	1.7047	-4.7631
9 2021	-2.3609	2.1971	-4.7631
9 2008	-2.6071	2.2406	-5.1962
10 2009	-2.6940	1.7482	-5.1962
10 2010	-2.7808	1.2558	-5.1962
10 2023	-2.5346	1.2123	-4.7631
10 2022	-2.4477	1.7047	-4.7631
10 2009	-2.6940	1.7482	-5.1962
11 2010	-2.7808	1.2558	-5.1962
11 2011	-2.8676	0.7633	-5.1962
11 2024	-2.6214	0.7199	-4.7631
11 2023	-2.5346	1.2123	-4.7631
11 2010	-2.7808	1.2558	-5.1962
12 2011	-2.8676	0.7633	-5.1962
12 2012	-2.9544	0.2709	-5.1962
12 2025	-2.7082	0.2275	-4.7631
12 2024	-2.6214	0.7199	-4.7631
12 2011	-2.8676	0.7633	-5.1962
13 2013	-1.6663	6.1364	-4.7631
13 2014	-1.7532	5.6440	-4.7631
13 2027	-1.5070	5.6006	-4.3301
13 2026	-1.4201	6.0930	-4.3301
13 2013	-1.6663	6.1364	-4.7631
14 2014	-1.7532	5.6440	-4.7631
14 2015	-1.8400	5.1516	-4.7631
14 2028	-1.5938	5.1082	-4.3301
14 2027	-1.5070	5.6006	-4.3301
14 2014	-1.7532	5.6440	-4.7631
15 2015	-1.8400	5.1516	-4.7631
15 2016	-1.9268	4.6592	-4.7631
15 2029	-1.6806	4.6158	-4.3301
15 2028	-1.5938	5.1082	-4.3301
15 2015	-1.8400	5.1516	-4.7631
16 2016	-1.9268	4.6592	-4.7631
16 2017	-2.0136	4.1668	-4.7631
16 2030	-1.7674	4.1234	-4.3301
16 2029	-1.6806	4.6158	-4.3301
16 2016	-1.9268	4.6592	-4.7631
17 2017	-2.0136	4.1668	-4.7631
17 2018	-2.1005	3.6744	-4.7631
17 2031	-1.8543	3.6309	-4.3301
17 2030	-1.7674	4.1234	-4.3301
17 2017	-2.0136	4.1668	-4.7631
18 2018	-2.1005	3.6744	-4.7631
18 2019	-2.1873	3.1820	-4.7631
18 2031	-1.8543	3.6309	-4.3301
18 2030	-1.7674	4.1234	-4.3301
18 2018	-2.1005	3.6744	-4.7631

trial 1 output: 48 of 137

19 2019	-2.1873	3.1820	-4.7631
19 2020	-2.2741	2.6896	-4.7631
19 2033	-2.0279	2.6461	-4.3301
19 2032	-1.9411	3.1385	-4.3301
19 2019	-2.1873	3.1820	-4.7631
20 2020	-2.2741	2.6896	-4.7631
20 2021	-2.3609	2.1971	-4.7631
20 2034	-2.1147	2.1537	-4.3301
20 2033	-2.0279	2.6461	-4.3301
20 2020	-2.2741	2.6896	-4.7631
21 2021	-2.3609	2.1971	-4.7631
21 2022	-2.4477	1.7047	-4.7631
21 2035	-2.2015	1.6513	-4.3301
21 2034	-2.1147	2.1537	-4.3301
21 2021	-2.3609	2.1971	-4.7631
22 2022	-2.4477	1.7047	-4.7631
22 2023	-2.5346	1.2123	-4.7631
22 2036	-2.2884	1.1689	-4.3301
22 2035	-2.2015	1.6513	-4.3301
22 2022	-2.4477	1.7047	-4.7631
23 2023	-2.5346	1.2123	-4.7631
23 2024	-2.6214	0.7199	-4.7631
23 2037	-2.3752	0.6765	-4.3301
23 2036	-2.2884	1.1689	-4.3301
23 2023	-2.5346	1.2123	-4.7631
24 2024	-2.6214	0.7199	-4.7631
24 2025	-2.7082	0.2275	-4.7631
24 2038	-2.4620	0.1841	-4.3301
24 2037	-2.3752	0.6765	-4.3301
24 2024	-2.6214	0.7199	-4.7631
25 2026	-1.4201	6.0930	-4.3301
25 2027	-1.5070	5.6006	-4.3301
25 2040	-1.2608	5.5572	-3.8971
25 2039	-1.1739	6.0496	-3.8971
25 2026	-1.4201	6.0930	-4.3301
26 2027	-1.5070	5.6006	-4.3301
26 2028	-1.5938	5.1082	-4.3301
26 2041	-1.3476	5.0647	-3.8971
26 2040	-1.2608	5.5572	-3.8971
26 2027	-1.5070	5.6006	-4.3301
27 2028	-1.5938	5.1082	-4.3301
27 2029	-1.6806	4.6158	-4.3301
27 2042	-1.4344	4.5723	-3.8971
27 2041	-1.3476	5.0647	-3.8971
27 2028	-1.5938	5.1082	-4.3301
28 2029	-1.6806	4.6158	-4.3301
28 2030	-1.7674	4.1234	-4.3301
28 2043	-1.5212	4.0799	-3.8971
28 2042	-1.4344	4.5723	-3.8971
28 2029	-1.6806	4.6158	-4.3301
29 2030	-1.7674	4.1234	-4.3301
29 2031	-1.8543	3.6309	-4.3301
29 2044	-1.6080	3.5875	-3.8971
29 2043	-1.5212	4.0799	-3.8971
29 2030	-1.7674	4.1234	-4.3301
30 2031	-1.8543	3.6309	-4.3301
30 2032	-1.9411	3.1385	-4.3301
30 2045	-1.6949	3.0951	-3.8971
30 2044	-1.6080	3.5875	-3.8971
30 2031	-1.8543	3.6309	-4.3301
31 2032	-1.9411	3.1385	-4.3301
31 2033	-2.0279	2.6461	-4.3301
31 2046	-1.7817	2.6027	-3.8971
31 2045	-1.6949	3.0951	-3.8971

trial 1 output: 49 of 137

31 2032	-1.9411	3.1385	-4.3301
32 2033	-2.0279	2.6461	-4.3301
32 2034	-2.1147	2.1537	-4.3301
32 2047	-1.8685	2.1103	-3.8971
32 2046	-1.7817	2.6027	-3.8971
32 2033	-2.0279	2.6461	-4.3301
33 2034	-2.1147	2.1537	-4.3301
33 2035	-2.2015	1.6613	-4.3301
33 2048	-1.9553	1.6179	-3.8971
33 2047	-1.8685	2.1103	-3.8971
33 2034	-2.1147	2.1537	-4.3301
34 2035	-2.2015	1.6613	-4.3301
34 2036	-2.2884	1.1689	-4.3301
34 2049	-2.0422	1.1255	-3.8971
34 2048	-1.9553	1.6179	-3.8971
34 2035	-2.2015	1.6613	-4.3301
35 2036	-2.2884	1.1689	-4.3301
35 2037	-2.3752	0.6765	-4.3301
35 2050	-2.1290	0.6331	-3.8971
35 2049	-2.0422	1.1255	-3.8971
35 2036	-2.2884	1.1689	-4.3301
36 2037	-2.3752	0.6765	-4.3301
36 2038	-2.4620	0.1841	-4.3301
36 2051	-2.2198	0.1407	-3.8971
36 2050	-2.1290	0.6331	-3.8971
36 2037	-2.3752	0.6765	-4.3301
37 2039	-1.1739	6.0496	-3.8971
37 2040	-1.2608	5.5572	-3.8971
37 2053	-1.0146	5.5137	-3.4641
37 2052	-0.9277	6.0061	-3.4641
37 2039	-1.1739	6.0496	-3.8971
38 2040	-1.2608	5.5572	-3.8971
38 2041	-1.3476	5.0647	-3.8971
38 2054	-1.1014	5.0213	-3.4641
38 2053	-1.0146	5.5137	-3.4641
38 2040	-1.2608	5.5572	-3.8971
39 2041	-1.3476	5.0647	-3.8971
39 2042	-1.4344	4.5723	-3.8971
39 2055	-1.1882	4.5289	-3.4641
39 2054	-1.1014	5.0213	-3.4641
39 2041	-1.3476	5.0647	-3.8971
40 2042	-1.4344	4.5723	-3.8971
40 2043	-1.5212	4.0799	-3.8971
40 2056	-1.2750	4.0365	-3.4641
40 2055	-1.1882	4.5289	-3.4641
40 2042	-1.4344	4.5723	-3.8971
41 2043	-1.5212	4.0799	-3.8971
41 2044	-1.6080	3.5875	-3.8971
41 2057	-1.3618	3.5441	-3.4641
41 2056	-1.2750	4.0365	-3.4641
41 2043	-1.5212	4.0799	-3.8971
42 2044	-1.6080	3.5875	-3.8971
42 2045	-1.6949	3.0951	-3.8971
42 2058	-1.4487	3.0517	-3.4641
42 2057	-1.3618	3.5441	-3.4641
42 2044	-1.6080	3.5875	-3.8971
43 2045	-1.6949	3.0951	-3.8971
43 2046	-1.7817	2.6027	-3.8971
43 2059	-1.5355	2.5593	-3.4641
43 2058	-1.4487	3.0517	-3.4641
43 2045	-1.6949	3.0951	-3.8971
44 2046	-1.7817	2.6027	-3.8971
44 2047	-1.8685	2.1103	-3.8971
44 2060	-1.6223	2.0669	-3.4641

trial 1 output: 50 of 137

44 2059	-1.5355	2.5593	-3.4641
44 2046	-1.7817	2.6027	-3.8971
45 2047	-1.8685	2.1103	-3.8971
45 2048	-1.9553	1.6179	-3.8971
45 2061	-1.7091	1.5745	-3.4641
45 2060	-1.6223	2.0669	-3.4641
45 2047	-1.8685	2.1103	-3.8971
46 2048	-1.9553	1.6179	-3.8971
46 2049	-2.0422	1.1255	-3.8971
46 2062	-1.7960	1.0821	-3.4641
46 2061	-1.7091	1.5745	-3.4641
46 2048	-1.9553	1.6179	-3.8971
47 2049	-2.0422	1.1255	-3.8971
47 2050	-2.1290	0.6331	-3.8971
47 2063	-1.8828	0.5897	-3.4641
47 2062	-1.7960	1.0821	-3.4641
47 2049	-2.0422	1.1255	-3.8971
48 2050	-2.1290	0.6331	-3.8971
48 2051	-2.2156	0.1407	-3.8971
48 2064	-1.9696	0.0973	-3.4641
48 2063	-1.8828	0.5897	-3.4641
48 2050	-2.1290	0.6331	-3.8971
49 2052	-0.9277	6.0061	-3.4641
49 2053	-1.0146	5.5137	-3.4641
49 2066	-0.7683	5.4703	-3.0311
49 2065	-0.6815	5.9627	-3.0311
49 2052	-0.9277	6.0061	-3.4641
50 2053	-1.0146	5.5137	-3.4641
50 2054	-1.1014	5.0213	-3.4641
50 2067	-0.8552	4.9779	-3.0311
50 2066	-0.7683	5.4703	-3.0311
50 2053	-1.0146	5.5137	-3.4641
51 2054	-1.1014	5.0213	-3.4641
51 2055	-1.1882	4.5289	-3.4641
51 2068	-0.9420	4.4855	-3.0311
51 2067	-0.8552	4.9779	-3.0311
51 2054	-1.1014	5.0213	-3.4641
52 2055	-1.1882	4.5289	-3.4641
52 2056	-1.2750	4.0365	-3.4641
52 2069	-1.0288	3.9931	-3.0311
52 2058	-0.9420	4.4855	-3.0311
52 2055	-1.1882	4.5289	-3.4641
53 2056	-1.2750	4.0365	-3.4641
53 2057	-1.3618	3.5441	-3.4641
53 2070	-1.1156	3.5007	-3.0311
53 2069	-1.0288	3.9931	-3.0311
53 2056	-1.2750	4.0365	-3.4641
54 2057	-1.3618	3.5441	-3.4641
54 2058	-1.4487	3.0517	-3.4641
54 2071	-1.2025	3.0083	-3.0311
54 2070	-1.1156	3.5007	-3.0311
54 2057	-1.3618	3.5441	-3.4641
55 2058	-1.4487	3.0517	-3.4641
55 2059	-1.5355	2.5593	-3.4641
55 2072	-1.2893	2.5159	-3.0311
55 2071	-1.2025	3.0083	-3.0311
55 2058	-1.4487	3.0517	-3.4641
56 2059	-1.5355	2.5593	-3.4641
56 2060	-1.6223	2.0669	-3.4641
56 2073	-1.3761	2.0235	-3.0311
56 2072	-1.2893	2.5159	-3.0311
56 2059	-1.5355	2.5593	-3.4641
57 2060	-1.6223	2.0669	-3.4641
57 2061	-1.7091	1.5745	-3.4641

trial 1 output: 51 of 137

57 2074	-1.4629	1.5311	-3.0311
57 2073	-1.3761	2.0235	-3.0311
57 2060	-1.6223	2.0669	-3.4641
58 2061	-1.7091	1.5745	-3.4641
58 2062	-1.7960	1.0821	-3.4641
58 2075	-1.5498	1.0387	-3.0311
58 2074	-1.4629	1.5311	-3.0311
58 2061	-1.7091	1.5745	-3.4641
59 2062	-1.7960	1.0821	-3.4641
59 2063	-1.8828	0.5897	-3.4641
59 2076	-1.6366	0.5463	-3.0311
59 2075	-1.5498	1.0387	-3.0311
59 2062	-1.7960	1.0821	-3.4641
60 2063	-1.8828	0.5897	-3.4641
60 2064	-1.9696	0.0973	-3.4641
60 2077	-1.7234	0.0539	-3.0311
60 2076	-1.6366	0.5463	-3.0311
60 2063	-1.8828	0.5897	-3.4641
61 2065	-0.6815	5.9627	-3.0311
61 2066	-0.7683	5.4703	-3.0311
61 2079	-0.5221	5.4269	-2.5981
61 2078	-0.4353	5.9193	-2.5981
61 2065	-0.6815	5.9627	-3.0311
62 2066	-0.7683	5.4703	-3.0311
62 2067	-0.8552	4.9779	-3.0311
62 2080	-0.6090	4.9345	-2.5981
62 2079	-0.5221	5.4269	-2.5981
62 2066	-0.7683	5.4703	-3.0311
63 2067	-0.8552	4.9779	-3.0311
63 2068	-0.9420	4.4855	-3.0311
63 2081	-0.6958	4.4421	-2.5981
63 2080	-0.6090	4.9345	-2.5981
63 2067	-0.8552	4.9779	-3.0311
64 2068	-0.9420	4.4855	-3.0311
64 2069	-1.0288	3.9931	-3.0311
64 2082	-0.7826	3.9497	-2.5981
64 2081	-0.6958	4.4421	-2.5981
64 2068	-0.9420	4.4855	-3.0311
65 2069	-1.0288	3.9931	-3.0311
65 2070	-1.1156	3.5007	-3.0311
65 2083	-0.8694	3.4573	-2.5981
65 2082	-0.7826	3.9497	-2.5981
65 2069	-1.0288	3.9931	-3.0311
66 2070	-1.1156	3.5007	-3.0311
66 2071	-1.2025	3.0083	-3.0311
66 2084	-0.9563	2.9649	-2.5981
66 2083	-0.8694	3.4573	-2.5981
66 2070	-1.1156	3.5007	-3.0311
67 2071	-1.2025	3.0083	-3.0311
67 2072	-1.2893	2.5159	-3.0311
67 2085	-1.0431	2.4725	-2.5981
67 2084	-0.9563	2.9649	-2.5981
67 2071	-1.2025	3.0083	-3.0311
68 2072	-1.2893	2.5159	-3.0311
68 2073	-1.3761	2.0235	-3.0311
68 2086	-1.1299	1.9801	-2.5981
68 2085	-1.0431	2.4725	-2.5981
68 2072	-1.2893	2.5159	-3.0311
69 2073	-1.3761	2.0235	-3.0311
69 2074	-1.4629	1.5311	-3.0311
69 2087	-1.2167	1.4877	-2.5981
69 2086	-1.1299	1.9801	-2.5981
69 2073	-1.3761	2.0235	-3.0311
70 2074	-1.4629	1.5311	-3.0311

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70 2075	-1.5498	1.0387	-3.0311
70 2088	-1.3036	0.9953	-2.5981
70 2087	-1.2167	1.4877	-2.5981
70 2074	-1.4629	1.5311	-3.0311
71 2075	-1.5498	1.0387	-3.0311
71 2076	-1.6366	0.5463	-3.0311
71 2089	-1.3904	0.5029	-2.5981
71 2088	-1.3036	0.9953	-2.5981
71 2075	-1.5498	1.0387	-3.0311
72 2076	-1.6366	0.5463	-3.0311
72 2077	-1.7234	0.0539	-3.0311
72 2090	-1.4772	0.0105	-2.5981
72 2089	-1.3904	0.5029	-2.5981
72 2076	-1.6366	0.5463	-3.0311
73 2078	-0.4353	5.9193	-2.5981
73 2079	-0.5221	5.4269	-2.5981
73 2092	-0.2759	5.3835	-2.1651
73 2091	-0.1891	5.8759	-2.1651
73 2078	-0.4353	5.9193	-2.5981
74 2079	-0.5221	5.4269	-2.5981
74 2080	-0.6090	4.9345	-2.5981
74 2093	-0.3628	4.8911	-2.1651
74 2092	-0.2759	5.3835	-2.1651
74 2079	-0.5221	5.4269	-2.5981
75 2080	-0.6090	4.9345	-2.5981
75 2081	-0.6958	4.4421	-2.5981
75 2094	-0.4436	4.3987	-2.1651
75 2093	-0.3628	4.8911	-2.1651
75 2080	-0.6090	4.9345	-2.5981
76 2081	-0.6958	4.4421	-2.5981
76 2082	-0.7826	3.9497	-2.5981
76 2095	-0.5364	3.9063	-2.1651
76 2094	-0.4436	4.3987	-2.1651
76 2081	-0.6958	4.4421	-2.5981
77 2082	-0.7826	3.9497	-2.5981
77 2083	-0.8694	3.4573	-2.5981
77 2096	-0.6232	3.4139	-2.1651
77 2095	-0.5364	3.9063	-2.1651
77 2082	-0.7826	3.9497	-2.5981
78 2083	-0.8694	3.4573	-2.5981
78 2084	-0.9563	2.9649	-2.5981
78 2097	-0.7101	2.9215	-2.1651
78 2096	-0.6232	3.4139	-2.1651
78 2083	-0.8694	3.4573	-2.5981
79 2084	-0.9563	2.9649	-2.5981
79 2085	-1.0431	2.4725	-2.5981
79 2098	-0.7969	2.4291	-2.1651
79 2097	-0.7101	2.9215	-2.1651
79 2084	-0.9563	2.9649	-2.5981
80 2085	-1.0431	2.4725	-2.5981
80 2086	-1.1299	1.9801	-2.5981
80 2099	-0.8837	1.9367	-2.1651
80 2098	-0.7969	2.4291	-2.1651
80 2085	-1.0431	2.4725	-2.5981
81 2086	-1.1299	1.9801	-2.5981
81 2087	-1.2167	1.4877	-2.5981
81 2100	-0.9705	1.4443	-2.1651
81 2099	-0.8837	1.9367	-2.1651
81 2096	-1.1299	1.9801	-2.5981
82 2097	-1.2167	1.4877	-2.5981
82 2098	-1.3036	0.9953	-2.5981
82 2101	-1.0574	0.9519	-2.1651
82 2100	-0.9705	1.4443	-2.1651
82 2097	-1.2167	1.4877	-2.5981

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83 2088	-1.3036	0.9953	-2.5981
83 2089	-1.3904	0.5029	-2.5981
83 2102	-1.1442	0.4595	-2.1651
83 2101	-1.0574	0.9519	-2.1651
83 2088	-1.3036	0.9953	-2.5981
84 2089	-1.3904	0.5029	-2.5981
84 2090	-1.4772	0.0105	-2.5981
84 2103	-1.2310	-0.0329	-2.1651
84 2102	-1.1442	0.4595	-2.1651
84 2089	-1.3904	0.5029	-2.5981
85 2091	-0.1891	5.8759	-2.1651
85 2092	-0.2759	5.3835	-2.1651
85 2105	-0.0297	5.3401	-1.7321
85 2104	0.0571	5.8325	-1.7321
85 2091	-0.1891	5.8759	-2.1651
86 2092	-0.2759	5.3835	-2.1651
86 2093	-0.3628	4.8911	-2.1651
86 2106	-0.1166	4.8477	-1.7321
86 2105	-0.0297	5.3401	-1.7321
86 2092	-0.2759	5.3835	-2.1651
87 2093	-0.3628	4.8911	-2.1651
87 2094	-0.4496	4.3987	-2.1651
87 2107	-0.2034	4.3553	-1.7321
87 2106	-0.1166	4.8477	-1.7321
87 2093	-0.3628	4.8911	-2.1651
88 2094	-0.4496	4.3987	-2.1651
88 2095	-0.5364	3.9063	-2.1651
88 2108	-0.2902	3.8629	-1.7321
88 2107	-0.2034	4.3553	-1.7321
88 2094	-0.4496	4.3987	-2.1651
89 2095	-0.5364	3.9063	-2.1651
89 2096	-0.6232	3.4139	-2.1651
89 2109	-0.3770	3.3705	-1.7321
89 2108	-0.2902	3.8629	-1.7321
89 2095	-0.5364	3.9063	-2.1651
90 2096	-0.6232	3.4139	-2.1651
90 2097	-0.7101	2.9215	-2.1651
90 2110	-0.4639	2.8781	-1.7321
90 2109	-0.3770	3.3705	-1.7321
90 2096	-0.6232	3.4139	-2.1651
91 2097	-0.7101	2.9215	-2.1651
91 2098	-0.7969	2.4291	-2.1651
91 2111	-0.5507	2.3857	-1.7321
91 2110	-0.4639	2.8781	-1.7321
91 2097	-0.7101	2.9215	-2.1651
92 2098	-0.7969	2.4291	-2.1651
92 2099	-0.8837	1.9367	-2.1651
92 2112	-0.6375	1.8933	-1.7321
92 2111	-0.5507	2.3857	-1.7321
92 2098	-0.7969	2.4291	-2.1651
93 2099	-0.8837	1.9367	-2.1651
93 2100	-0.9705	1.4443	-2.1651
93 2113	-0.7243	1.4009	-1.7321
93 2112	-0.6375	1.8933	-1.7321
93 2099	-0.8837	1.9367	-2.1651
94 2100	-0.9705	1.4443	-2.1651
94 2101	-1.0574	0.9519	-2.1651
94 2114	-0.8112	0.9085	-1.7321
94 2113	-0.7243	1.4009	-1.7321
94 2100	-0.9705	1.4443	-2.1651
95 2101	-1.0574	0.9519	-2.1651
95 2102	-1.1442	0.4595	-2.1651
95 2115	-0.8980	0.4161	-1.7321
95 2114	-0.8112	0.9085	-1.7321
95 2101	-1.0574	0.9519	-2.1651

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96 2102	-1.1442	0.4595	-2.1651
96 2103	-1.2310	-0.0329	-2.1651
96 2116	-0.9848	-0.0764	-1.7321
96 2115	-0.8980	0.4161	-1.7321
96 2102	-1.1442	0.4595	-2.1651
97 2104	0.0571	5.8325	-1.7321
97 2105	-0.0297	5.3401	-1.7321
97 2118	0.2165	5.2967	-1.2990
97 2117	0.3033	5.7891	-1.2990
97 2104	0.0571	5.8325	-1.7321
98 2105	-0.0297	5.3401	-1.7321
98 2106	-0.1166	4.8477	-1.7321
98 2119	0.1296	4.8043	-1.2990
98 2118	0.2165	5.2967	-1.2990
98 2105	-0.0297	5.3401	-1.7321
99 2106	-0.1166	4.8477	-1.7321
99 2107	-0.2034	4.3553	-1.7321
99 2120	0.0428	4.3119	-1.2990
99 2119	0.1296	4.8043	-1.2990
99 2106	-0.1166	4.8477	-1.7321
100 2107	-0.2034	4.3553	-1.7321
100 2108	-0.2902	3.8629	-1.7321
100 2121	-0.0440	3.8195	-1.2990
100 2120	-0.0428	4.3119	-1.2990
100 2107	-0.2034	4.3553	-1.7321
101 2108	-0.2902	3.8629	-1.7321
101 2109	-0.3770	3.3705	-1.7321
101 2122	-0.1308	3.3271	-1.2990
101 2121	-0.0440	3.8195	-1.2990
101 2108	-0.2902	3.8629	-1.7321
102 2109	-0.3770	3.3705	-1.7321
102 2110	-0.4639	2.8781	-1.7321
102 2123	-0.2177	2.8347	-1.2990
102 2122	-0.1308	3.3271	-1.2990
102 2109	-0.3770	3.3705	-1.7321
103 2110	-0.4639	2.8781	-1.7321
103 2111	-0.5507	2.3857	-1.7321
103 2124	-0.3045	2.3423	-1.2990
103 2123	-0.2177	2.8347	-1.2990
103 2110	-0.4639	2.8781	-1.7321
104 2111	-0.5507	2.3857	-1.7321
104 2112	-0.6375	1.8933	-1.7321
104 2125	-0.3913	1.8499	-1.2990
104 2124	-0.3045	2.3423	-1.2990
104 2111	-0.5507	2.3857	-1.7321
105 2112	-0.6375	1.8933	-1.7321
105 2113	-0.7243	1.4009	-1.7321
105 2126	-0.4781	1.3574	-1.2990
105 2125	-0.3913	1.8499	-1.2990
105 2112	-0.6375	1.8933	-1.7321
106 2113	-0.7243	1.4009	-1.7321
106 2114	-0.8112	0.9085	-1.7321
106 2127	-0.5650	0.8650	-1.2990
106 2126	-0.4781	1.3574	-1.2990
106 2113	-0.7243	1.4009	-1.7321
107 2114	-0.8112	0.9085	-1.7321
107 2115	-0.8980	0.4161	-1.7321
107 2116	-0.9848	-0.0764	-1.7321
108 2129	-0.7386	-0.1198	-1.2990
108 2128	-0.6518	0.3726	-1.2990

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108 2115	-0.8980	0.4161	-1.7321
109 2117	0.3033	5.7891	-1.2990
109 2118	0.2165	5.2967	-1.2990
109 2131	0.4627	5.2533	-0.8660
109 2130	0.5495	5.7457	-0.8660
109 2117	0.3033	5.7891	-1.2990
110 2118	0.2165	5.2967	-1.2990
110 2119	0.1296	4.8043	-1.2990
110 2132	0.3758	4.7609	-0.8660
110 2131	0.4627	5.2533	-0.8660
110 2118	0.2165	5.2967	-1.2990
111 2119	0.1296	4.8043	-1.2990
111 2120	0.0428	4.3119	-1.2990
111 2133	0.2890	4.2685	-0.8660
111 2132	0.3758	4.7609	-0.8660
111 2119	0.1296	4.8043	-1.2990
112 2120	0.0428	4.3119	-1.2990
112 2121	-0.0440	3.8195	-1.2990
112 2134	0.2022	3.7761	-0.8660
112 2133	0.2890	4.2685	-0.8660
112 2120	0.0428	4.3119	-1.2990
113 2121	-0.0440	3.8195	-1.2990
113 2122	-0.1308	3.3271	-1.2990
113 2135	0.1154	3.2837	-0.8660
113 2134	0.2022	3.7761	-0.8660
113 2121	-0.0440	3.8195	-1.2990
114 2122	-0.1308	3.3271	-1.2990
114 2123	-0.2177	2.8347	-1.2990
114 2136	0.0285	2.7912	-0.8660
114 2135	0.1154	3.2837	-0.8660
114 2122	-0.1308	3.3271	-1.2990
115 2123	-0.2177	2.8347	-1.2990
115 2124	-0.3045	2.3423	-1.2990
115 2137	-0.0583	2.2988	-0.8660
115 2136	0.0285	2.7912	-0.8660
115 2123	-0.2177	2.8347	-1.2990
116 2124	-0.3045	2.3423	-1.2990
116 2125	-0.3913	1.8499	-1.2990
116 2138	-0.1451	1.8064	-0.8660
116 2137	-0.0583	2.2988	-0.8660
116 2124	-0.3045	2.3423	-1.2990
117 2125	-0.3913	1.8499	-1.2990
117 2126	-0.4781	1.3574	-1.2990
117 2139	-0.2319	1.3140	-0.8660
117 2138	-0.1451	1.8064	-0.8660
117 2125	-0.3913	1.8499	-1.2990
118 2126	-0.4781	1.3574	-1.2990
118 2127	-0.5650	0.8650	-1.2990
118 2140	-0.3188	0.8216	-0.8660
118 2139	-0.2319	1.3140	-0.8660
118 2126	-0.4781	1.3574	-1.2990
119 2127	-0.5650	0.8650	-1.2990
119 2128	-0.6518	0.3726	-1.2990
119 2141	-0.4056	0.3292	-0.8660
119 2140	-0.3188	0.8216	-0.8660
119 2127	-0.5650	0.8650	-1.2990
120 2128	-0.6518	0.3726	-1.2990
120 2129	-0.7386	-0.1198	-1.2990
120 2142	-0.4924	-0.1632	-0.8660
120 2141	-0.4056	0.3292	-0.8660
120 2128	-0.6518	0.3726	-1.2990
121 2130	0.5495	5.7457	-0.8660
121 2131	0.4627	5.2533	-0.8660
121 2144	0.7089	5.2099	-0.4330

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121 2143	0.7957	5.7023	-0.4330
121 2130	0.5495	5.7457	-0.8660
122 2131	0.4627	5.2533	-0.8660
122 2132	0.3758	4.7609	-0.8660
122 2145	0.6220	4.7175	-0.4330
122 2144	0.7089	5.2099	-0.4330
122 2131	0.4627	5.2533	-0.8660
123 2132	0.3758	4.7609	-0.8660
123 2133	0.2890	4.2685	-0.8660
123 2146	0.5352	4.2250	-0.4330
123 2145	0.6220	4.7175	-0.4330
123 2132	0.3758	4.7609	-0.8660
124 2133	0.2890	4.2685	-0.8660
124 2134	0.2022	3.7761	-0.8660
124 2147	0.4484	3.7326	-0.4330
124 2146	0.5352	4.2250	-0.4330
124 2133	0.2890	4.2685	-0.8660
125 2134	0.2022	3.7761	-0.8660
125 2135	0.1154	3.2837	-0.8660
125 2148	0.3616	3.2402	-0.4330
125 2147	0.4484	3.7326	-0.4330
125 2134	0.2022	3.7761	-0.8660
126 2135	0.1154	3.2837	-0.8660
126 2136	0.0285	2.7912	-0.8660
126 2149	0.2747	2.7478	-0.4330
126 2148	0.3616	3.2402	-0.4330
126 2135	0.1154	3.2837	-0.8660
127 2136	0.0285	2.7912	-0.8660
127 2137	-0.0583	2.2988	-0.8660
127 2150	0.1879	2.2554	-0.4330
127 2149	0.2747	2.7478	-0.4330
127 2136	0.0285	2.7912	-0.8660
128 2137	-0.0583	2.2988	-0.8660
128 2138	-0.1451	1.8064	-0.8660
128 2151	0.1011	1.7630	-0.4330
128 2150	0.1879	2.2554	-0.4330
128 2137	-0.0583	2.2988	-0.8660
129 2138	-0.1451	1.8064	-0.8660
129 2139	-0.2319	1.3140	-0.8660
129 2152	0.0143	1.2706	-0.4330
129 2151	0.1011	1.7630	-0.4330
129 2138	-0.1451	1.8064	-0.8660
130 2139	-0.2319	1.3140	-0.8660
130 2140	-0.3188	0.8216	-0.8660
130 2153	-0.0726	0.7782	-0.4330
130 2152	0.0143	1.2706	-0.4330
130 2139	-0.2319	1.3140	-0.8660
131 2140	-0.3188	0.8216	-0.8660
131 2141	-0.4056	0.3292	-0.8660
131 2154	-0.1594	0.2858	-0.4330
131 2153	-0.0726	0.7782	-0.4330
131 2140	-0.3188	0.8216	-0.8660
132 2141	-0.4056	0.3292	-0.8660
132 2142	-0.4924	-0.1532	-0.8660
132 2155	-0.2462	-0.2066	-0.4330
132 2154	-0.1594	0.2858	-0.4330
132 2141	-0.4056	0.3292	-0.8660
133 2143	0.7957	5.7023	-0.4330
133 2144	0.7089	5.2099	-0.4330
133 2157	0.9551	5.1664	0.0000
133 2156	1.0419	5.6580	0.0000
133 2143	0.7957	5.7023	-0.4330
134 2144	0.7089	5.2099	-0.4330
134 2145	0.6220	4.7175	-0.4330

134 2158	0.6682	4.6740	0.0000
134 2157	0.9551	5.1664	0.0000
134 2144	0.7089	5.2099	-0.4330
135 2145	0.6220	4.7175	-0.4330
135 2146	0.5352	4.2250	-0.4330
135 2159	0.7814	4.1816	0.0000
135 2158	0.6682	4.6740	0.0000
135 2145	0.6220	4.7175	-0.4330
136 2146	0.5352	4.2250	-0.4330
136 2147	0.4484	3.7326	-0.4330
136 2160	0.6946	3.6992	0.0000
136 2159	0.7814	4.1816	0.0000
136 2146	0.5352	4.2250	-0.4330
137 2147	0.4484	3.7326	-0.4330
137 2148	0.3616	3.2402	-0.4330
137 2161	0.6078	3.1968	0.0000
137 2160	0.6946	3.6992	0.0000
137 2147	0.4484	3.7326	-0.4330
138 2148	0.3616	3.2402	-0.4330
138 2149	0.2747	2.7478	-0.4330
138 2162	0.5209	2.7044	0.0000
138 2161	0.6078	3.1968	0.0000
138 2148	0.3616	3.2402	-0.4330
139 2149	0.2747	2.7478	-0.4330
139 2150	0.1879	2.2554	-0.4330
139 2163	0.4341	2.2120	0.0000
139 2162	0.5209	2.7044	0.0000
139 2149	0.2747	2.7478	-0.4330
140 2150	0.1879	2.2554	-0.4330
140 2151	0.1011	1.7630	-0.4330
140 2164	0.3473	1.7196	0.0000
140 2163	0.4341	2.2120	0.0000
140 2150	0.1879	2.2554	-0.4330
141 2151	0.1011	1.7630	-0.4330
141 2152	0.0143	1.2706	-0.4330
141 2165	0.2605	1.2272	0.0000
141 2164	0.3473	1.7196	0.0000
141 2151	0.1011	1.7630	-0.4330
142 2152	0.0143	1.2706	-0.4330
142 2153	-0.0726	0.7782	-0.4330
142 2166	0.1736	0.7348	0.0000
142 2165	0.2605	1.2272	0.0000
142 2152	0.0143	1.2706	-0.4330
143 2153	-0.0726	0.7782	-0.4330
143 2154	-0.1594	0.2858	-0.4330
143 2167	0.0868	0.2424	0.0000
143 2166	0.1736	0.7348	0.0000
143 2153	-0.0726	0.7782	-0.4330
144 2154	-0.1594	0.2858	-0.4330
144 2155	-0.2462	-0.2066	-0.4330
144 2168	0.0000	-0.2500	0.0000
144 2167	0.0868	0.2424	0.0000
144 2154	-0.1594	0.2858	-0.4330

trial 1 output: 57 of 137

OBJECT: scfr
ELT CENTER COORD SYS: scfr_cs

DISPLACEMENTS: *Slip & opening across SCF in km. B1 is strike slip, B2 is dip slip, B3 is opening.

ELT	X1C	X2C	X3C	B1	U1(+)	U1(-)	B2	U2(+)	U2(-)	B3	U3(+)	U3(-)	Coord Sys
1	-15.500	-5.805	-0.000	-2.228e-06	9.448e-05	9.670e-05	-1.047e-04	-1.146e-04	-9.926e-06	3.749e-06	8.418e-05	8.043e-05	scfr_cs
2	-14.500	-5.805	-0.000	-4.479e-07	1.194e-04	1.199e-04	-1.269e-04	-1.329e-04	-6.012e-06	6.051e-06	1.034e-04	9.731e-05	scfr_cs
3	-13.500	-5.805	-0.000	-4.639e-06	1.314e-04	1.360e-04	-1.366e-04	-1.483e-04	-1.174e-05	8.015e-06	1.171e-04	1.090e-04	scfr_cs
4	-12.500	-5.805	-0.000	-1.274e-05	1.406e-04	1.533e-04	-1.442e-04	-1.619e-04	-1.771e-05	9.442e-06	1.249e-04	1.154e-04	scfr_cs
5	-11.500	-5.805	-0.000	-2.259e-05	1.512e-04	1.738e-04	-1.541e-04	-1.729e-04	-1.880e-05	1.067e-05	1.267e-04	1.160e-04	scfr_cs
6	-10.500	-5.805	-0.000	-3.242e-05	1.616e-04	1.985e-04	-1.692e-04	-1.807e-04	-1.152e-05	1.129e-05	1.223e-04	1.110e-04	scfr_cs
7	-9.500	-5.805	-0.000	-3.739e-05	1.885e-04	2.259e-04	-1.922e-04	-1.826e-04	-9.664e-06	1.179e-05	1.115e-04	9.975e-05	scfr_cs
8	-8.500	-5.805	-0.000	-2.940e-05	2.114e-04	2.408e-04	-2.139e-04	-1.711e-04	-4.281e-05	1.182e-05	9.989e-05	8.806e-05	scfr_cs
9	-7.500	-5.805	-0.000	-1.962e-05	-1.146e-06	1.848e-05	-2.244e-04	-1.371e-04	8.732e-05	1.154e-05	1.036e-04	9.205e-05	scfr_cs
10	-6.500	-5.805	-0.000	-1.256e-05	2.281e-04	2.406e-04	-2.281e-04	-1.444e-04	8.374e-05	1.086e-05	8.629e-05	7.542e-05	scfr_cs
11	-5.500	-5.805	-0.000	-7.109e-06	2.287e-04	2.358e-04	-2.276e-04	-1.377e-04	9.488e-05	9.819e-06	8.079e-05	7.097e-05	scfr_cs
12	-4.500	-5.805	-0.000	-2.057e-06	2.258e-04	2.279e-04	-2.234e-04	-1.202e-04	1.033e-04	8.730e-06	7.669e-05	6.596e-05	scfr_cs
13	-3.500	-5.805	-0.000	-3.303e-06	2.188e-04	2.155e-04	-2.151e-04	-1.057e-04	1.094e-04	7.325e-06	6.779e-05	6.047e-05	scfr_cs
14	-2.500	-5.805	-0.000	-9.022e-06	2.063e-04	1.973e-04	-2.013e-04	-8.863e-05	1.126e-04	6.052e-06	5.959e-05	5.354e-05	scfr_cs
15	-1.500	-5.805	-0.000	-1.445e-05	1.851e-04	1.707e-04	-1.791e-04	-6.848e-05	1.106e-04	4.527e-06	4.961e-05	4.508e-05	scfr_cs
16	-0.500	-5.805	-0.000	-1.774e-05	1.460e-04	1.282e-04	-1.399e-04	-4.699e-05	9.690e-05	2.917e-06	3.595e-05	3.304e-05	scfr_cs
17	-15.500	-5.430	-0.000	-5.851e-08	1.424e-04	1.425e-04	-1.518e-04	-1.392e-04	1.253e-05	6.088e-06	8.292e-05	7.683e-05	scfr_cs
18	-14.500	-5.430	-0.000	-1.690e-06	1.811e-04	1.794e-04	-1.878e-04	-1.662e-04	2.160e-05	9.813e-06	1.040e-04	9.417e-05	scfr_cs
19	-13.500	-5.430	-0.000	-5.286e-06	1.978e-04	1.746e-04	-2.032e-04	-1.889e-04	1.425e-05	1.319e-05	1.199e-04	1.067e-04	scfr_cs
20	-12.500	-5.430	-0.000	-1.827e-05	2.093e-04	2.275e-04	-2.146e-04	-1.055e-04	4.110e-05	1.569e-05	1.293e-04	1.136e-04	scfr_cs
21	-11.500	-5.430	-0.000	-3.405e-05	2.225e-04	2.565e-04	-2.290e-04	-2.301e-04	-1.075e-06	1.762e-05	1.315e-04	1.138e-04	scfr_cs
22	-10.500	-5.430	-0.000	-5.025e-05	2.423e-04	2.926e-04	-2.512e-04	-2.471e-04	4.155e-06	1.857e-05	1.256e-04	1.070e-04	scfr_cs
23	-9.500	-5.430	-0.000	-5.981e-05	2.748e-04	3.347e-04	-2.861e-04	-2.570e-04	2.908e-05	1.905e-05	1.095e-04	9.012e-05	scfr_cs
24	-8.500	-5.430	-0.000	-4.639e-05	3.542e-05	3.576e-04	-3.200e-04	-1.616e-04	2.580e-05	2.580e-05	1.272e-04	1.015e-04	scfr_cs
25	-7.500	-5.430	0.000	-3.034e-05	-5.763e-06	4.575e-05	-3.362e-04	-1.940e-04	1.423e-04	1.857e-05	9.807e-05	8.131e-05	scfr_cs
26	-6.500	-5.430	0.000	-1.910e-05	-3.355e-06	1.574e-05	-3.418e-04	-1.890e-04	1.528e-04	1.733e-05	9.233e-05	7.500e-05	scfr_cs
27	-5.500	-5.430	0.000	-1.067e-05	-1.156e-06	9.513e-06	-3.408e-04	-1.823e-04	1.585e-04	1.581e-05	8.532e-05	6.952e-05	scfr_cs
28	-4.500	-5.430	0.000	-3.102e-06	1.113e-06	4.215e-06	-3.341e-04	-1.736e-04	1.607e-04	1.387e-05	7.771e-05	6.384e-05	scfr_cs
29	-3.500	-5.430	0.000	-4.639e-06	3.039e-04	3.681e-04	-3.163e-04	-2.996e-04	1.671e-05	2.580e-05	1.272e-04	1.015e-04	scfr_cs
30	-2.500	-5.430	0.000	-1.278e-05	5.986e-06	-6.815e-06	-2.989e-04	-1.462e-04	1.528e-04	9.516e-06	8.070e-05	6.870e-05	scfr_cs
31	-1.500	-5.430	0.000	-2.000e-05	7.855e-06	-1.215e-05	-2.638e-04	-1.249e-04	1.389e-04	7.286e-06	4.846e-05	4.117e-05	scfr_cs
32	-0.500	-5.430	0.000	-2.285e-05	7.619e-06	-1.523e-05	-2.015e-04	-9.104e-05	1.105e-04	4.580e-06	3.407e-05	2.949e-05	scfr_cs
33	-15.500	-5.055	-0.000	-3.012e-06	1.716e-04	1.746e-04	-1.850e-04	-1.554e-04	2.963e-05	8.219e-06	8.077e-05	7.251e-05	scfr_cs
34	-14.500	-5.055	-0.000	-4.327e-06	2.288e-04	2.444e-04	-2.338e-04	-1.358e-05	1.031e-04	9.951e-06	8.951e-05	8.070e-05	scfr_cs
35	-13.500	-5.055	-0.000	-5.225e-06	2.506e-04	2.558e-04	-2.550e-04	-2.203e-04	3.470e-05	1.842e-05	1.210e-04	1.025e-04	scfr_cs
36	-12.500	-5.055	-0.000	-2.232e-05	2.646e-04	2.870e-04	-2.703e-04	-2.489e-04	2.134e-05	2.221e-05	1.316e-04	1.094e-04	scfr_cs
37	-11.500	-5.055	-0.000	-4.297e-05	2.803e-04	3.233e-04	-2.887e-04	-2.757e-04	1.301e-05	2.477e-05	1.343e-04	1.095e-04	scfr_cs
38	-10.500	-5.055	-0.000	-6.417e-05	3.039e-04	3.681e-04	-3.163e-04	-2.996e-04	1.671e-05	2.580e-05	1.272e-04	1.015e-04	scfr_cs
39	-9.500	-5.055	-0.000	-7.786e-05	3.417e-04	4.196e-04	-3.581e-04	-3.430e-04	4.303e-05	2.588e-05	1.066e-04	8.070e-05	scfr_cs
40	-8.500	-5.055	-0.000	-5.999e-05	3.857e-04	4.457e-04	-3.990e-04	-2.984e-04	1.006e-04	2.564e-05	8.230e-05	5.666e-05	scfr_cs
41	-7.500	-5.055	-0.000	-3.848e-05	4.101e-04	4.486e-04	-4.193e-04	-2.746e-04	1.447e-04	2.485e-05	6.939e-05	4.455e-05	scfr_cs
42	-6.500	-5.055	-0.000	-2.380e-05	4.201e-04	4.439e-04	-4.261e-04	-2.551e-04	1.710e-04	2.320e-05	6.247e-05	3.927e-05	scfr_cs
43	-5.500	-5.055	-0.000	-1.310e-05	4.213e-04	4.444e-04	-4.244e-04	-2.371e-04	1.710e-04	2.320e-05	6.247e-05	3.927e-05	scfr_cs
44	-4.500	-5.055	-0.000	-3.788e-06	4.151e-04	4.189e-04	-4.154e-04	-2.176e-04	1.978e-04	1.859e-05	5.193e-05	3.334e-05	scfr_cs
45	-3.500	-5.055	-0.000	-5.530e-06	4.007e-04	3.952e-04	-3.979e-04	-1.943e-04	2.036e-04	1.576e-05	4.631e-05	3.056e-05	scfr_cs
46	-2.500	-5.055	-0.000	-1.499e-05	3.750e-04	3.601e-04	-3.692e-04	-1.660e-04	2.032e-04	1.270e-05	4.004e-05	2.733e-05	scfr_cs
47	-1.500	-5.055	-0.000	-2.271e-05	3.312e-04	3.085e-04	-3.232e-04	-1.314e-04	1.918e-04	9.628e-06	3.254e-05	2.291e-05	scfr_cs

trial 1 output: 58 of 137

Slip on Solitario Canyon Fault

trial input: 59 of 137													
48	-0.500	-5.055	-0.000	2.442e-05	2.493e-04	2.249e-04	-2.421e-04	-8.636e-05	1.557e-04	6.026e-06	2.315e-05	1.712e-05	scfr_cs
49	-15.500	-4.680	-0.000	5.331e-06	2.078e-04	2.025e-04	-2.128e-04	-1.490e-04	4.389e-05	1.058e-05	7.636e-05	6.578e-05	scfr_cs
50	-14.500	-4.680	-0.000	6.998e-06	2.217e-04	2.651e-04	-2.741e-04	-2.122e-04	6.190e-05	1.790e-05	9.872e-05	8.083e-05	scfr_cs
51	-13.500	-4.680	-0.000	5.747e-06	2.989e-04	3.047e-04	-3.019e-04	-2.486e-04	5.323e-05	1.744e-05	9.290e-05	7.290e-05	scfr_cs
52	-12.500	-4.680	-0.000	-2.630e-05	3.162e-04	3.425e-04	-3.214e-04	-2.837e-04	3.771e-05	2.978e-05	1.283e-04	9.856e-05	scfr_cs
53	-11.500	-4.680	-0.000	-5.072e-05	3.346e-04	3.853e-04	-3.437e-04	-3.163e-04	2.744e-05	3.302e-05	1.309e-04	9.785e-05	scfr_cs
54	-10.500	-4.680	-0.000	-7.514e-05	3.614e-04	4.365e-04	-3.759e-04	-3.448e-04	3.107e-05	3.397e-05	1.230e-04	8.898e-05	scfr_cs
55	-9.500	-4.680	-0.000	-9.095e-05	4.021e-04	4.930e-04	-4.219e-04	-3.679e-04	5.908e-05	3.323e-05	9.960e-05	6.637e-05	scfr_cs
56	-8.500	-4.680	-0.000	-1.081e-04	4.482e-04	5.555e-04	-4.681e-04	-4.120e-04	8.220e-05	3.261e-05	0.000110	5.487e-05	scfr_cs
57	-7.500	-4.680	-0.000	-1.487e-05	1.206e-05	3.282e-05	-4.888e-04	-2.712e-04	2.176e-04	3.113e-05	0.000110	4.687e-05	scfr_cs
58	-6.500	-4.680	-0.000	-2.727e-05	4.881e-04	5.154e-04	-4.964e-04	-2.936e-04	2.028e-04	2.908e-05	4.807e-05	1.899e-05	scfr_cs
59	-5.500	-4.680	-0.000	-4.171e-05	4.888e-04	5.035e-04	-4.839e-04	-2.731e-04	2.207e-04	2.610e-05	4.310e-05	1.679e-05	scfr_cs
60	-4.500	-4.680	-0.000	-5.747e-06	2.989e-04	3.047e-04	-3.019e-04	-2.486e-04	5.323e-05	1.744e-05	9.290e-05	7.290e-05	scfr_cs
61	-3.500	-4.680	-0.000	6.113e-06	4.625e-04	4.848e-04	-4.825e-04	-2.511e-04	2.314e-04	2.314e-05	1.868e-05	1.546e-05	scfr_cs
62	-2.500	-4.680	-0.000	1.620e-05	4.310e-04	4.148e-04	-4.259e-04	-1.926e-04	2.334e-04	1.589e-05	2.903e-05	1.313e-05	scfr_cs
63	-1.500	-4.680	-0.000	2.406e-05	3.774e-04	3.533e-04	-3.702e-04	-1.530e-04	2.172e-04	1.194e-05	2.338e-05	1.144e-05	scfr_cs
64	-0.500	-4.680	-0.000	2.471e-05	2.787e-04	2.540e-04	-2.727e-04	-1.008e-04	1.719e-04	7.433e-06	1.660e-05	9.163e-06	scfr_cs
65	0.500	-4.680	-0.000	2.233e-05	2.233e-04	2.233e-04	-1.887e-04	-4.938e-05	4.938e-05	1.330e-05	8.263e-06	6.933e-06	scfr_cs
66	1.500	-4.680	-0.000	6.197e-06	4.464e-07	-6.643e-05	3.074e-04	2.332e-04	1.283e-04	2.932e-05	1.283e-04	9.856e-05	scfr_cs
67	13.500	-4.305	-0.000	7.281e-06	1.072e-06	6.208e-06	3.451e-06	-2.682e-06	7.694e-05	3.156e-05	1.393e-04	1.077e-04	scfr_cs
68	12.500	-4.305	-0.000	-3.016e-06	4.118e-06	2.605e-05	-3.687e-06	-2.855e-04	8.314e-05	3.858e-05	1.565e-04	1.179e-04	scfr_cs
69	11.500	-4.305	-0.000	-5.680e-05	-9.099e-06	4.770e-05	-3.942e-04	-2.954e-04	9.877e-05	4.270e-05	6.625e-04	1.196e-04	scfr_cs
70	10.500	-4.305	-0.000	-3.016e-05	-1.547e-05	6.681e-05	-4.003e-04	-3.005e-04	1.205e-04	4.126e-05	1.590e-04	1.111e-04	scfr_cs
71	9.500	-4.305	-0.000	-9.828e-05	-2.170e-05	7.758e-05	-3.796e-04	-3.028e-04	1.769e-04	1.455e-05	2.757e-04	1.075e-04	scfr_cs
72	8.500	-4.305	-0.000	7.839e-05	-1.946e-05	5.893e-05	-5.253e-04	-3.035e-04	2.218e-04	3.749e-05	9.654e-05	5.705e-05	scfr_cs
73	7.500	-4.305	-0.000	-4.950e-05	-1.443e-05	3.507e-05	-5.499e-04	-3.016e-04	2.483e-04	3.986e-05	7.780e-05	3.994e-05	scfr_cs
74	6.500	-4.305	-0.000	-1.512e-05	-6.927e-06	1.910e-05	-5.578e-04	-2.966e-04	2.613e-04	3.526e-05	6.743e-05	3.217e-05	scfr_cs
75	5.500	-4.305	-0.000	-1.552e-05	-6.942e-06	1.910e-05	-5.578e-04	-2.966e-04	2.613e-04	3.526e-05	6.743e-05	3.217e-05	scfr_cs
76	4.500	-4.305	-0.000	-4.057e-06	3.167e-06	5.795e-07	-5.405e-04	-2.754e-04	2.651e-04	2.791e-05	5.213e-05	2.420e-05	scfr_cs
77	3.500	-4.305	-0.000	6.783e-06	1.644e-07	-6.618e-06	-5.151e-04	-2.575e-04	2.576e-04	2.359e-05	4.452e-05	2.093e-05	scfr_cs
78	2.500	-4.305	-0.000	1.708e-05	3.654e-06	-1.342e-05	-4.741e-04	-2.323e-04	2.418e-04	1.912e-05	3.670e-05	1.758e-05	scfr_cs
79	1.500	-4.305	-0.000	4.250e-05	4.292e-06	-2.020e-05	-2.953e-04	-1.935e-04	2.132e-04	1.436e-05	2.836e-05	1.408e-05	scfr_cs
80	0.500	-4.305	-0.000	2.450e-05	4.292e-06	-2.020e-05	-2.953e-04	-1.935e-04	2.132e-04	1.436e-05	2.836e-05	1.408e-05	scfr_cs
81	-15.500	-3.935	-0.000	5.043e-06	7.631e-07	-4.280e-06	-2.593e-04	-2.003e-04	5.903e-05	1.631e-05	2.576e-05	5.936e-05	scfr_cs
82	-14.500	-3.935	-0.000	4.425e-06	2.206e-06	-2.411e-06	-3.436e-04	-2.579e-04	8.567e-05	2.842e-05	1.052e-04	7.682e-05	scfr_cs
83	-13.500	-3.935	-0.000	4.493e-06	1.128e-06	1.061e-05	-3.841e-04	-2.911e-04	9.296e-05	3.968e-05	3.316e-04	9.191e-05	scfr_cs
84	-12.500	-3.935	-0.000	3.571e-06	5.710e-07	3.712e-07	-4.901e-04	-2.791e-04	9.791e-05	3.999e-05	3.316e-04	9.191e-05	scfr_cs
85	-11.500	-3.935	-0.000	-6.632e-06	4.309e-04	4.911e-04	-4.392e-04	-3.827e-05	5.647e-05	5.351e-05	0.010e-04	4.745e-05	scfr_cs
86	-10.500	-3.935	-0.000	-8.526e-05	-1.554e-05	6.912e-05	-4.783e-04	-3.281e-04	1.502e-04	5.386e-05	1.464e-04	9.257e-05	scfr_cs
87	-9.500	-3.935	-0.000	-1.007e-04	-2.246e-05	7.820e-05	-5.317e-04	-3.307e-04	2.013e-04	5.060e-05	2.10e-04	7.039e-05	scfr_cs
88	-8.500	-3.935	-0.000	-2.525e-05	-1.614e-05	9.454e-05	-5.749e-04	-3.074e-04	2.483e-04	4.733e-05	8.753e-05	4.019e-05	scfr_cs
89	-7.500	-3.935	-0.000	-3.055e-05	-1.234e-05	1.822e-05	-6.129e-04	-3.234e-04	2.895e-04	4.173e-05	5.612e-05	1.438e-05	scfr_cs
90	-6.500	-3.935	-0.000	-1.551e-05	-8.820e-06	6.689e-06	-6.081e-04	-3.142e-04	2.938e-04	3.757e-05	4.827e-05	1.070e-05	scfr_cs
91	-5.500	-3.935	-0.000	-3.442e-06	-5.322e-06	-1.750e-06	-5.820e-04	-3.035e-04	2.915e-04	3.299e-05	4.136e-05	8.786e-06	scfr_cs
92	-4.500	-3.935	-0.000	-1.772e-05	1.875e-06	-1.595e-05	-5.161e-04	-2.577e-04	2.633e-04	2.258e-05	2.789e-05	2.030e-06	scfr_cs
93	-3.500	-3.935	-0.000	2.498e-05	4.025e-06	-2.095e-05	-4.425e-04	-2.120e-04	2.305e-04	1.696e-05	2.107e-05	4.105e-06	scfr_cs
94	-2.500	-3.935	-0.000	2.413e-05	2.315e-06	-2.181e-05	-1.479e-04	-1.468e-04	1.711e-04	1.039e-05	3.41e-05	3.022e-06	scfr_cs
95	-1.500	-3.935	-0.000	4.250e-05	4.292e-06	-2.020e-05	-2.793e-04	-2.088e-04	2.052e-05	1.993e-05	4.613e-05	2.620e-05	scfr_cs
96	-0.500	-3.935	-0.000	1.720e-06	3.787e-04	4.352e-04	-4.195e-04	-3.242e-04	9.526e-05	4.889e-05	7.01e-05	2.125e-05	scfr_cs
97	13.500	-3.560	-0.000	-1.190e-05	4.233e-04	4.502e-04	-4.195e-04	-3.242e-04	9.526e-05	4.889e-05	7.01e-05	2.125e-05	scfr_cs
98	12.500	-3.560	-0.000	-3.496e-05	4.489e-04	4.839e-04	-4.494e-04	-3.695e-04	7.987e-05	5.936e-05	7.617e-05	1.654e-05	scfr_cs
99	11.500	-3.560	-0.000	-6.101e-05	4.730e-04	5.341e-04	-4.800e-04	-4.081e-04	1.781e-05	5.659e-05	6.792e-05	2.220e-06	scfr_cs
100	10.500	-3.560	-0.000	-8.526e-05	4.730e-04	5.341e-04	-4.800e-04	-4.081e-04	1.781e-05	5.659e-05	6.792e-05	2.220e-06	scfr_cs
101	9.500	-3.560	-0.000	-9.905e-05	5.575e-04	6.566e-04	-5.800e-04	-4.549e-04	1.251e-04	6.087e-05	8.000e-05	3.656e-05	scfr_cs
102	8.500	-3.560	-0.000	-8.344e-05	6.070e-04	6.905e-04	-6.296e-04	-4.392e-04	1.904e-04	5.609e-05	1.955e-05	-3.656e-05	scfr_cs

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105	-7.500	-3.560	-0.000	-5.303e-05	6.381e-04	6.912e-04	-6.562e-04	-4.065e-04	2.497e-04	5.274e-05	1.439e-06	-5.130e-05	acfr_cs
106	-6.500	-3.560	-0.000	-3.029e-05	6.497e-04	6.800e-04	-6.639e-04	-3.782e-04	2.857e-04	4.885e-05	-6.053e-06	-5.491e-05	acfr_cs
107	-5.500	-3.560	-0.000	-1.465e-05	6.470e-04	6.616e-04	-6.578e-04	-3.528e-04	3.049e-04	4.398e-05	-8.726e-06	-5.271e-05	acfr_cs
108	-4.500	-3.560	-0.000	-2.568e-06	6.319e-04	6.344e-04	-6.393e-04	-3.251e-04	3.810e-05	-9.413e-05	-4.781e-05	-3.666e-05	acfr_cs
109	-3.500	-3.560	-0.000	1.822e-05	-3.698e-07	-1.859e-05	-5.542e-04	-2.712e-04	2.830e-04	2.643e-05	1.815e-05	-8.283e-06	acfr_cs
110	-2.500	-3.560	-0.000	2.504e-05	1.753e-06	-2.328e-05	-4.723e-04	-2.636e-04	2.460e-04	1.986e-05	1.316e-05	-6.698e-06	acfr_cs
111	-1.500	-3.560	-0.000	2.371e-05	3.082e-08	-2.368e-05	-3.360e-04	-1.552e-04	1.808e-04	2.129e-05	7.654e-06	-4.539e-06	acfr_cs
112	-0.500	-3.560	-0.000	-1.086e-06	7.933e-05	6.819e-06	-2.972e-04	-2.215e-04	7.615e-04	2.415e-05	5.413e-05	3.004e-05	acfr_cs
113	-15.500	-3.185	-0.000	-1.086e-06	7.933e-05	6.819e-06	-2.972e-04	-2.215e-04	7.615e-04	2.415e-05	5.413e-05	3.004e-05	acfr_cs
114	-14.500	-3.185	-0.000	-2.082e-06	8.510e-06	1.087e-05	-4.008e-04	-2.509e-04	1.099e-04	4.249e-05	7.919e-05	3.669e-05	acfr_cs
115	-13.500	-3.185	-0.000	-1.415e-05	6.839e-06	2.099e-05	-4.517e-04	-3.317e-04	1.200e-04	5.934e-05	1.027e-04	4.339e-05	acfr_cs
116	-12.500	-3.185	-0.000	-3.516e-05	2.811e-06	3.734e-05	-4.844e-04	-3.560e-04	1.289e-04	7.218e-05	1.189e-04	4.657e-05	acfr_cs
117	-11.500	-3.185	-0.000	-5.895e-05	-4.923e-06	5.403e-05	-5.176e-04	-3.696e-04	1.480e-04	9.926e-05	1.244e-04	4.510e-05	acfr_cs
118	-10.500	-3.185	-0.000	-8.020e-05	-1.352e-05	6.667e-05	-5.639e-04	-3.764e-04	1.875e-04	7.887e-05	1.171e-04	3.823e-05	acfr_cs
119	-9.500	-3.185	-0.000	-9.999e-05	-2.183e-05	7.216e-05	-6.249e-04	-3.791e-04	2.458e-04	7.254e-05	9.366e-05	2.112e-05	acfr_cs
120	-8.500	-3.185	-0.000	-8.105e-05	-2.323e-05	5.782e-05	-6.768e-04	-3.788e-04	2.979e-04	6.592e-05	6.116e-05	-4.751e-06	acfr_cs
121	-7.500	-3.185	-0.000	-5.165e-05	-1.945e-05	3.220e-05	-7.041e-04	-3.763e-04	3.278e-04	6.112e-05	3.926e-05	-2.216e-05	acfr_cs
122	-6.500	-3.185	-0.000	-2.863e-05	-1.587e-05	1.276e-05	-7.113e-04	-3.704e-04	3.409e-04	5.622e-05	2.774e-05	-2.888e-05	acfr_cs
123	-5.500	-3.185	-0.000	-1.291e-05	-1.280e-05	1.161e-07	-7.037e-04	-3.601e-04	3.436e-04	5.093e-05	2.070e-05	-3.023e-05	acfr_cs
124	-4.500	-3.185	-0.000	-1.125e-06	-9.757e-06	-8.631e-06	-6.829e-04	-3.443e-04	3.386e-04	4.457e-05	1.544e-05	-2.912e-05	acfr_cs
125	-3.500	-3.185	-0.000	9.192e-06	-6.438e-06	-1.563e-05	-6.466e-04	-3.213e-04	3.253e-04	3.776e-05	1.113e-05	-2.682e-05	acfr_cs
126	-2.500	-3.185	-0.000	1.854e-05	-3.098e-06	-2.164e-05	-5.890e-04	-2.800e-04	2.880e-04	3.074e-05	7.700e-06	-2.304e-05	acfr_cs
127	-1.500	-3.185	-0.000	2.324e-05	-2.559e-06	-2.580e-05	-3.520e-04	-2.392e-04	2.602e-04	2.312e-05	4.803e-06	-1.831e-05	acfr_cs
128	-0.500	-3.185	-0.000	-5.410e-06	3.269e-04	3.323e-04	-3.146e-04	-2.361e-04	7.851e-05	2.911e-05	1.105e-05	-1.806e-05	acfr_cs
129	-15.500	-2.810	-0.000	-6.379e-06	4.936e-04	4.450e-04	-4.263e-04	-3.118e-04	1.144e-04	5.115e-05	1.066e-05	-4.049e-05	acfr_cs
130	-14.500	-2.810	-0.000	-1.695e-05	4.322e-04	5.084e-04	-4.819e-04	-3.857e-04	1.162e-04	7.105e-05	1.189e-05	-9.16e-05	acfr_cs
131	-13.500	-2.810	-0.000	-5.456e-05	5.508e-04	6.054e-04	-5.532e-04	-4.449e-04	1.003e-04	9.422e-05	9.172e-05	-8.505e-05	acfr_cs
132	-12.500	-2.810	-0.000	-7.321e-05	-1.172e-05	6.149e-05	-6.030e-04	-3.976e-04	2.054e-04	9.366e-05	9.697e-05	3.204e-06	acfr_cs
133	-11.500	-2.810	-0.000	-8.598e-05	-2.075e-05	6.523e-05	-6.674e-04	-4.005e-04	2.668e-04	8.561e-05	7.477e-05	1.084e-05	acfr_cs
134	-10.500	-2.810	-0.000	-7.562e-05	-2.333e-05	5.219e-05	-7.212e-04	-4.002e-04	3.210e-04	7.707e-05	4.365e-05	-3.342e-05	acfr_cs
135	-9.500	-2.810	-0.000	-4.809e-05	-2.057e-05	2.753e-05	-7.491e-04	-3.974e-04	3.517e-04	7.116e-05	2.181e-05	-4.935e-05	acfr_cs
136	-8.500	-2.810	-0.000	-2.557e-05	-1.752e-05	8.053e-06	-7.556e-04	-3.911e-04	3.645e-04	6.526e-05	1.043e-05	-5.483e-05	acfr_cs
137	-7.500	-2.810	-0.000	-1.034e-05	-1.453e-05	-4.589e-06	-7.465e-04	-3.803e-04	3.662e-04	5.864e-05	4.135e-05	-5.451e-05	acfr_cs
138	-6.500	-2.810	-0.000	6.673e-07	-1.238e-05	-1.305e-05	-7.212e-04	-3.637e-04	3.598e-04	5.140e-05	1.311e-07	-5.127e-05	acfr_cs
139	-5.500	-2.810	-0.000	1.001e-05	-0.495e-06	-1.953e-05	-6.839e-04	-3.392e-04	3.447e-04	4.358e-05	-2.550e-06	-4.613e-05	acfr_cs
140	-4.500	-2.810	-0.000	1.851e-05	-6.401e-06	-2.492e-05	-6.214e-04	-3.035e-04	3.179e-04	3.561e-05	-3.890e-06	-3.950e-05	acfr_cs
141	-3.500	-2.810	-0.000	2.435e-05	-4.228e-06	-2.858e-05	-5.243e-04	-2.510e-04	2.734e-04	2.685e-05	-4.325e-06	-3.117e-05	acfr_cs
142	-2.500	-2.810	-0.000	2.260e-05	-5.538e-06	-2.814e-05	-3.666e-04	-1.689e-04	1.976e-04	1.659e-05	-4.890e-06	-2.140e-05	acfr_cs
143	-1.500	-2.810	-0.000	-1.026e-05	-3.481e-06	3.584e-04	-3.107e-04	-2.494e-04	8.124e-05	3.489e-05	-1.068e-05	-4.557e-05	acfr_cs
144	-0.500	-2.810	-0.000	-1.088e-05	4.677e-04	4.785e-04	-4.508e-04	-3.299e-04	1.209e-04	6.124e-05	-1.918e-05	-8.042e-05	acfr_cs
145	-15.500	-2.435	-0.000	-1.753e-05	5.255e-04	5.431e-04	-5.109e-04	-3.830e-04	1.271e-04	8.447e-05	-2.420e-05	-1.087e-04	acfr_cs
146	-14.500	-2.435	-0.000	-3.146e-05	5.580e-04	5.895e-04	-5.489e-04	-4.257e-04	1.235e-04	1.020e-04	-2.817e-05	-1.302e-04	acfr_cs
147	-13.500	-2.435	-0.000	-4.814e-05	5.881e-04	6.362e-04	-5.874e-04	-4.574e-04	1.336e-04	1.111e-04	-2.038e-05	-1.432e-04	acfr_cs
148	-12.500	-2.435	-0.000	-6.371e-05	6.310e-04	6.947e-04	-6.405e-04	-4.807e-04	1.598e-04	1.101e-04	-3.694e-05	-1.471e-04	acfr_cs
149	-11.500	-2.435	-0.000	-7.516e-05	-1.927e-05	5.589e-05	-7.076e-04	-4.201e-04	2.874e-04	1.004e-04	5.262e-05	-4.744e-05	acfr_cs
150	-10.500	-2.435	-0.000	-6.719e-05	-2.321e-05	4.398e-05	-7.632e-04	-4.198e-04	3.434e-04	8.963e-05	2.322e-05	-6.841e-05	acfr_cs
151	-9.500	-2.435	-0.000	-4.228e-05	-2.143e-05	2.085e-05	-7.914e-04	-4.168e-04	3.747e-04	8.210e-05	9.950e-06	-8.014e-05	acfr_cs
152	-8.500	-2.435	-0.000	-2.109e-05	-1.911e-05	1.977e-06	-7.972e-04	-4.162e-04	3.869e-04	7.511e-05	-6.833e-06	-8.399e-05	acfr_cs
153	-7.500	-2.435	-0.000	0.006e-06	-7.211e-05	-1.020e-05	-7.865e-04	-3.989e-04	3.876e-04	6.752e-05	-1.418e-05	-8.170e-05	acfr_cs
154	-6.500	-2.435	-0.000	2.682e-06	-1.536e-05	-1.804e-05	-7.613e-04	-3.815e-04	3.798e-04	5.916e-05	-1.678e-05	-7.594e-05	acfr_cs
155	-5.500	-2.435	-0.000	1.060e-05	-1.312e-05	-2.377e-05	-7.189e-04	-3.558e-04	3.630e-04	5.035e-05	-1.754e-05	-6.789e-05	acfr_cs
156	-4.500	-2.435	-0.000	1.785e-05	-1.044e-05	-2.829e-05	-6.518e-04	-3.175e-04	3.388e-04	4.133e-05	-1.650e-05	-6.783e-05	acfr_cs
157	-3.500	-2.435	-0.000	2.326e-05	-8.242e-06	-3.135e-05	-5.478e-04	-2.620e-04	2.858e-04	3.135e-05	-1.411e-05	-4.546e-05	acfr_cs
158	-2.500	-2.435	-0.000	2.157e-05	-9.061e-06	-3.063e-05	-3.799e-04	-1.747e-04	2.052e-04	1.942e-05	-1.158e-05	-3.100e-05	acfr_cs
159	-1.500	-2.435	-0.000	-1.529e-05	2.338e-05	3.867e-05	-3.463e-04	-2.468e-04	9.948e-05	4.200e-05	6.498e-06	-3.550e-05	acfr_cs
160	-0.500	-2.435	-0.000	-1.529e-05	2.338e-05	3.867e-05	-3.463e-04	-2.468e-04	9.948e-05	4.200e-05	6.498e-06	-3.550e-05	acfr_cs
161	-15.500	-2.060	-0.000	-1.529e-05	2.338e-05	3.867e-05	-3.463e-04	-2.468e-04	9.948e-05	4.200e-05	6.498e-06	-3.550e-05	acfr_cs

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162	-14.500	-2.060	0.000	-1.527e-05	2.230e-05	3.757e-05	-4.750e-04	-3.317e-04	1.433e-04	7.304e-05	1.982e-05	-5.322e-05	acfr_cs
163	-13.500	-2.060	0.000	-1.853e-05	1.965e-05	3.818e-05	-5.394e-04	-3.817e-04	1.577e-04	9.989e-05	3.461e-05	-6.538e-05	acfr_cs
164	-12.500	-2.060	0.000	-2.792e-05	1.338e-05	4.130e-05	-5.798e-04	-4.107e-04	1.692e-04	1.201e-04	4.641e-05	-7.368e-05	acfr_cs
165	-11.500	-2.060	0.000	-3.979e-05	4.079e-06	4.405e-05	-6.207e-04	-4.266e-04	1.941e-04	1.302e-04	5.120e-05	-7.902e-05	acfr_cs
166	-10.500	-2.060	0.000	-5.190e-05	-6.897e-06	4.505e-05	-6.765e-04	-4.346e-04	2.418e-04	1.288e-04	4.587e-05	-8.289e-05	acfr_cs
167	-9.500	-2.060	0.000	-6.167e-05	-1.747e-05	4.420e-05	-7.458e-04	-4.380e-04	3.078e-04	1.173e-04	2.700e-05	-8.031e-05	acfr_cs
168	-8.500	-2.060	0.000	-5.590e-05	-2.267e-05	3.324e-05	-8.029e-04	-4.377e-04	3.652e-04	1.041e-04	3.979e-07	-1.045e-04	acfr_cs
169	-7.500	-2.060	0.000	-3.431e-05	-2.211e-05	1.219e-05	-8.113e-04	-4.345e-04	3.988e-04	9.472e-05	-2.061e-05	-1.153e-04	acfr_cs
170	-6.500	-2.060	0.000	-1.532e-05	-2.070e-05	-5.381e-06	-8.361e-04	-4.274e-04	4.648e-04	8.641e-05	-3.363e-05	-1.170e-04	acfr_cs
171	-5.500	-2.060	0.000	-3.070e-06	-1.967e-05	-1.455e-05	-8.239e-04	-4.165e-04	4.079e-04	7.768e-05	-3.471e-05	-1.124e-04	acfr_cs
172	-4.500	-2.060	0.000	6.697e-06	-1.876e-05	-2.346e-05	-7.968e-04	-3.979e-04	3.988e-04	6.826e-05	-3.561e-05	-1.039e-04	acfr_cs
173	-3.500	-2.060	0.000	1.060e-05	-1.744e-05	-2.804e-05	-7.516e-04	-3.711e-04	3.805e-04	5.836e-05	-3.420e-05	-9.256e-05	acfr_cs
174	-2.500	-2.060	0.000	1.613e-05	-1.541e-05	-3.154e-05	-7.026e-04	-2.723e-04	2.899e-04	4.923e-05	-3.048e-05	-7.868e-05	acfr_cs
175	-1.500	-2.060	0.000	2.174e-05	-1.338e-05	-3.312e-05	-3.924e-04	-1.799e-04	2.125e-04	3.698e-05	-2.477e-05	-6.175e-05	acfr_cs
176	-0.500	-2.060	0.000	1.905e-05	-1.338e-05	-3.312e-05	-3.924e-04	-1.799e-04	2.125e-04	3.698e-05	-2.477e-05	-6.175e-05	acfr_cs
177	-15.500	-1.685	0.000	-2.207e-05	3.924e-04	4.125e-04	-3.617e-04	-2.738e-04	0.878e-05	5.103e-05	-6.388e-05	-4.173e-04	acfr_cs
178	-14.500	-1.685	0.000	-1.911e-05	5.283e-04	5.474e-04	-4.993e-04	-3.625e-04	1.363e-05	4.213e-05	-6.388e-05	-4.173e-04	acfr_cs
179	-13.500	-1.685	0.000	-1.441e-05	6.409e-04	6.221e-04	-5.782e-04	-3.851e-04	1.720e-04	1.85e-04	6.271e-06	-1.122e-04	acfr_cs
180	-12.500	-1.685	0.000	-1.141e-05	8.24e-05	1.416e-05	-6.10e-04	-4.257e-04	1.846e-04	1.411e-04	1.583e-05	-1.253e-05	acfr_cs
181	-11.500	-1.685	0.000	-3.014e-05	7.903e-06	3.804e-05	-6.531e-04	-4.420e-04	2.112e-04	1.523e-04	1.999e-05	-1.323e-04	acfr_cs
182	-10.500	-1.685	0.000	-3.772e-05	-3.998e-06	3.373e-05	-7.111e-04	-4.502e-04	2.608e-04	1.503e-04	1.522e-06	-1.323e-04	acfr_cs
183	-9.500	-1.685	0.000	-4.539e-05	-1.539e-05	3.000e-07	-7.283e-04	-4.502e-04	2.608e-04	1.503e-04	1.522e-06	-1.323e-04	acfr_cs
184	-8.500	-1.685	0.000	-4.539e-05	-1.539e-05	3.000e-07	-7.283e-04	-4.502e-04	2.608e-04	1.503e-04	1.522e-06	-1.323e-04	acfr_cs
185	-7.500	-1.685	0.000	-2.423e-05	-2.261e-05	1.619e-06	-8.686e-04	-4.505e-04	4.182e-04	1.097e-04	-4.563e-05	-1.552e-04	acfr_cs
186	-6.500	-1.685	0.000	-8.429e-06	-2.231e-05	-1.388e-05	-8.728e-04	-4.434e-04	4.289e-04	9.985e-05	-5.455e-05	-1.544e-04	acfr_cs
187	-5.500	-1.685	0.000	1.204e-06	-2.238e-05	-2.358e-05	-8.587e-04	-4.414e-04	4.273e-04	8.985e-05	-5.727e-05	-1.544e-04	acfr_cs
188	-4.500	-1.685	0.000	6.409e-06	-2.267e-05	-2.346e-05	-8.361e-04	-4.274e-04	4.648e-04	8.641e-05	-3.363e-05	-1.354e-04	acfr_cs
189	-3.500	-1.685	0.000	1.060e-05	-1.744e-05	-2.804e-05	-7.516e-04	-3.711e-04	3.805e-04	5.836e-05	-3.420e-05	-9.256e-05	acfr_cs
190	-2.500	-1.685	0.000	1.613e-05	-1.543e-05	-3.154e-05	-7.026e-04	-2.723e-04	2.899e-04	4.923e-05	-3.048e-05	-7.868e-05	acfr_cs
191	-1.500	-1.685	0.000	2.174e-05	-1.338e-05	-3.312e-05	-3.924e-04	-1.799e-04	2.125e-04	3.698e-05	-2.477e-05	-6.175e-05	acfr_cs
192	-0.500	-1.685	0.000	1.615e-05	-1.975e-05	-3.591e-05	-5.920e-04	-2.821e-04	3.100e-04	4.423e-05	-3.677e-05	-8.050e-05	acfr_cs
193	-15.500	-1.310	0.000	-2.262e-06	4.247e-04	4.247e-04	-3.617e-04	-1.656e-04	2.125e-04	2.975e-05	-2.477e-05	-6.175e-05	acfr_cs
194	-14.500	-1.310	0.000	-1.911e-06	5.283e-04	5.474e-04	-4.993e-04	-1.656e-04	2.125e-04	2.975e-05	-2.477e-05	-6.175e-05	acfr_cs
195	-13.500	-1.310	0.000	-1.441e-06	6.409e-05	5.903e-05	-5.240e-04	-3.540e-04	1.700e-04	1.603e-04	-3.076e-05	-3.717e-04	acfr_cs
196	-12.500	-1.310	0.000	-1.141e-06	3.49e-05	5.099e-05	-5.961e-04	-4.082e-04	1.879e-04	1.412e-04	-2.472e-05	-1.695e-04	acfr_cs
197	-11.500	-1.310	0.000	-3.014e-06	6.611e-04	6.821e-04	-6.404e-04	-4.567e-04	1.837e-04	1.665e-04	-1.041e-05	-1.695e-04	acfr_cs
198	-10.500	-1.310	0.000	-3.772e-06	7.903e-06	3.073e-06	-7.283e-04	-4.502e-04	2.608e-04	1.503e-04	1.522e-06	-1.323e-04	acfr_cs
199	-9.500	-1.310	0.000	-4.539e-06	7.903e-06	3.073e-06	-7.283e-04	-4.502e-04	2.608e-04	1.503e-04	1.522e-06	-1.323e-04	acfr_cs
200	-8.500	-1.310	0.000	-2.421e-05	-1.308e-05	1.131e-05	-8.162e-04	-4.674e-04	3.488e-04	1.603e-04	-3.372e-05	-1.940e-04	acfr_cs
201	-7.500	-1.310	0.000	-2.485e-05	-2.074e-05	4.116e-06	-8.750e-04	-4.674e-04	3.488e-04	1.418e-04	-5.602e-05	-1.979e-04	acfr_cs
202	-6.500	-1.310	0.000	-1.236e-05	-2.300e-05	-1.064e-05	-9.030e-04	-4.660e-04	4.330e-04	1.201e-04	-3.561e-05	-1.979e-04	acfr_cs
203	-5.500	-1.310	0.000	5.460e-06	-2.538e-05	-3.084e-05	-8.907e-04	-4.558e-04	4.188e-04	1.164e-04	-5.038e-05	-1.968e-04	acfr_cs
204	-4.500	-1.310	0.000	7.424e-06	-2.717e-05	-3.359e-05	-8.602e-04	-4.254e-04	4.348e-04	9.265e-05	-7.862e-05	-1.733e-04	acfr_cs
205	-3.500	-1.310	0.000	7.056e-06	-2.878e-05	-3.589e-05	-8.111e-04	-3.973e-04	4.138e-04	8.026e-05	-7.433e-05	-1.522e-04	acfr_cs
206	-2.500	-1.310	0.000	8.747e-06	-2.944e-05	-3.611e-05	-7.440e-04	-4.636e-04	2.805e-04	1.765e-04	-1.854e-05	-1.945e-04	acfr_cs
207	-1.500	-1.310	0.000	-2.621e-05	-1.078e-05	1.131e-05	-8.162e-04	-4.674e-04	3.488e-04	1.603e-04	-3.372e-05	-1.940e-04	acfr_cs
208	-0.500	-1.310	0.000	-2.485e-05	-2.074e-05	4.116e-06	-8.750e-04	-4.674e-04	3.488e-04	1.418e-04	-5.602e-05	-1.979e-04	acfr_cs
209	-15.500	-0.934	-0.000	-2.378e-05	4.457e-04	4.459e-04	-3.931e-04	-2.889e-04	1.047e-04	8.177e-05	-1.341e-04	-2.155e-04	acfr_cs
210	-14.500	-0.934	-0.000	-2.147e-05	5.970e-04	6.184e-04	-5.487e-04	-3.127e-04	1.262e-04	1.047e-04	-1.341e-04	-2.155e-04	acfr_cs
211	-13.500	-0.934	-0.000	-1.611e-05	6.990e-04	7.106e-04	-6.694e-04	-4.603e-04	2.091e-04	1.992e-04	-2.521e-04	-4.531e-04	acfr_cs
212	-12.500	-0.934	-0.000	-5.531e-06	7.309e-04	7.364e-04	-7.145e-04	-4.706e-04	2.439e-04	2.123e-04	-2.628e-04	-4.751e-04	acfr_cs
213	-11.500	-0.934	-0.000	-1.596e-06	7.711e-04	7.787e-04	-7.766e-04	-4.750e-04	2.996e-04	2.262e-04	-2.722e-04	-4.750e-04	acfr_cs
214	-10.500	-0.934	-0.000	-3.773e-06	8.568e-04	8.621e-04	-9.063e-04	-4.828e-04	2.439e-04	1.681e-04	-2.544e-04	-4.427e-04	acfr_cs
215	-9.500	-0.934	-0.000	-4.539e-06	8.568e-04	8.621e-04	-9.063e-04	-4.828e-04	2.439e-04	1.681e-04	-2.544e-04	-4.427e-04	acfr_cs
216	-8.500	-0.934	-0.000	-2.423e-06	9.104e-04	9.092e-04	-9.338e-04	-4.732e-04	4.605e-04	1.517e-04	-2.525e-04	-4.014e-04	acfr_cs
217	-7.500	-0.934	-0.000	7.031e-06	9.096e-04	9.026e-04	-9.354e-04	-4.597e-04	4.757e-04	1.379e-04	-2.447e-04	-3.826e-04	acfr_cs
218	-6.500	-0.934	-0.000	7.031e-06	9.096e-04	9.026e-04	-9.354e-04	-4.597e-04	4.757e-04	1.379e-04	-2.447e-04	-3.826e-04	acfr_cs

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66	-6.500	-4.833	0.000	-1.136e-05	4.825e-04	4.939e-04	-5.045e-04	-1.660e-04	3.385e-04	-1.954e-05	2.116e-05	4.071e-05	pefr_cs
67	-5.500	-4.833	0.000	-5.032e-06	4.843e-04	4.893e-04	-5.031e-04	-1.686e-04	3.345e-04	-2.333e-05	2.356e-05	4.689e-05	pefr_cs
68	-4.500	-4.833	0.000	4.864e-06	4.824e-04	4.775e-04	-4.941e-04	-1.638e-04	3.303e-04	-2.383e-05	2.223e-05	4.607e-05	pefr_cs
69	-3.500	-4.833	0.000	1.750e-05	4.709e-04	4.534e-04	-4.727e-04	-1.475e-04	3.252e-04	-2.315e-05	1.954e-05	4.269e-05	pefr_cs
70	-2.500	-4.833	0.000	2.920e-05	4.440e-04	4.142e-04	-4.380e-04	-1.217e-04	3.141e-04	-1.996e-05	1.556e-05	3.551e-05	pefr_cs
71	-1.500	-4.833	0.000	3.653e-05	-3.918e-04	3.512e-04	-3.778e-04	-8.807e-05	2.897e-04	-1.015e-05	2.850e-05	3.539e-05	pefr_cs
72	-0.500	-4.833	0.000	3.401e-05	2.931e-04	2.591e-04	-2.789e-04	-4.320e-05	2.357e-04	-9.730e-06	2.131e-06	1.186e-05	pefr_cs
73	-17.500	-4.500	0.000	-4.147e-05	-1.623e-05	2.524e-05	-2.892e-04	-1.244e-04	1.649e-04	4.001e-06	1.247e-05	8.466e-06	pefr_cs
74	-16.500	-4.500	0.000	-5.338e-05	-2.361e-05	2.977e-05	-3.986e-04	-1.780e-04	2.206e-04	5.439e-06	1.640e-05	1.096e-05	pefr_cs
75	-15.500	-4.500	0.000	-5.775e-05	-2.751e-05	3.024e-05	-4.662e-04	-2.561e-04	5.438e-06	1.642e-05	1.099e-05	1.099e-05	pefr_cs
76	-14.500	-4.500	0.000	-5.973e-05	-3.046e-05	2.928e-05	-5.141e-04	-2.310e-04	2.831e-04	3.949e-06	1.252e-05	1.573e-06	pefr_cs
77	-13.500	-4.500	0.000	-6.047e-05	-3.278e-05	2.770e-05	-5.489e-04	-2.427e-04	3.062e-04	1.017e-06	4.608e-06	3.591e-06	pefr_cs
78	-12.500	-4.500	0.000	-5.824e-05	-3.301e-05	2.523e-05	-5.709e-04	-2.431e-04	3.279e-04	-2.590e-06	6.632e-06	4.043e-06	pefr_cs
79	-11.500	-4.500	0.000	-5.026e-05	-2.954e-05	2.071e-05	-5.773e-04	-2.289e-04	3.484e-04	-5.595e-06	1.808e-05	-1.246e-05	pefr_cs
80	-10.500	-4.500	0.000	-3.970e-05	-2.554e-05	1.415e-05	-5.716e-04	-2.053e-04	3.653e-04	-7.860e-06	2.548e-05	-1.762e-05	pefr_cs
81	-9.500	-4.500	0.000	-3.157e-05	-2.459e-05	6.982e-06	-5.650e-04	-1.854e-04	3.796e-04	-1.105e-05	2.884e-05	-1.779e-05	pefr_cs
82	-8.500	-4.500	0.000	-2.469e-05	-2.472e-05	-2.608e-06	-5.628e-04	-1.761e-04	3.867e-04	-1.486e-05	-2.941e-05	-1.455e-05	pefr_cs
83	-7.500	-4.500	0.000	-1.759e-05	-3.402e-04	5.578e-04	-5.640e-04	-1.946e-04	3.694e-04	-1.933e-05	-8.992e-06	1.034e-05	pefr_cs
84	-6.500	-4.500	0.000	-1.055e-05	-2.156e-05	-1.101e-05	-5.659e-04	-1.849e-04	3.810e-04	-2.346e-05	-2.663e-05	-3.169e-06	pefr_cs
85	-5.500	-4.500	0.000	-2.921e-06	-1.724e-05	-1.432e-05	-5.643e-04	-1.945e-04	3.698e-04	-2.732e-05	-2.633e-05	9.861e-07	pefr_cs
86	-4.500	-4.500	0.000	7.587e-06	-9.412e-06	-1.700e-05	-5.536e-04	-1.993e-04	3.543e-04	-2.874e-05	-2.692e-05	1.823e-06	pefr_cs
87	-3.500	-4.500	0.000	2.062e-05	1.008e-06	-1.962e-05	-5.857e-04	-1.940e-04	3.346e-04	-2.729e-05	-2.686e-05	4.455e-07	pefr_cs
88	-2.500	-4.500	0.000	3.261e-05	1.087e-05	-2.174e-05	-4.857e-04	-1.767e-04	3.089e-04	-2.353e-05	-2.548e-05	-1.946e-06	pefr_cs
89	-1.500	-4.500	0.000	3.955e-05	1.727e-05	-2.228e-05	-4.186e-04	-1.455e-04	2.731e-04	-1.820e-05	-2.363e-05	-5.420e-06	pefr_cs
90	-0.500	-4.500	0.000	3.571e-05	1.712e-05	-1.860e-05	-3.053e-04	-9.057e-05	2.147e-04	-1.165e-05	-2.254e-05	-1.089e-05	pefr_cs
91	-17.500	-4.167	0.000	-4.221e-05	2.920e-04	3.342e-04	-3.089e-04	-1.763e-04	1.327e-04	4.627e-06	2.721e-06	1.906e-06	pefr_cs
92	-16.500	-4.167	0.000	-5.590e-05	4.048e-04	4.607e-04	-4.303e-04	-2.497e-04	1.806e-04	6.354e-06	2.717e-06	-3.637e-06	pefr_cs
93	-15.500	-4.167	0.000	-6.205e-05	4.751e-04	5.371e-04	-5.040e-04	-2.921e-04	2.138e-04	6.346e-06	6.218e-07	-5.725e-06	pefr_cs
94	-14.500	-4.167	0.000	-6.604e-05	5.238e-04	5.898e-04	-5.593e-04	-3.199e-04	2.384e-04	4.591e-06	3.847e-06	-8.438e-06	pefr_cs
95	-13.500	-4.167	0.000	-6.929e-05	5.579e-04	6.272e-04	-5.978e-04	-3.367e-04	2.611e-04	1.144e-06	-1.121e-05	-1.235e-05	pefr_cs
96	-12.500	-4.167	0.000	-6.971e-05	5.798e-04	6.495e-04	-6.221e-04	-3.385e-04	2.836e-04	-3.172e-06	-2.197e-05	-1.880e-05	pefr_cs
97	-11.500	-4.167	0.000	-6.296e-05	5.894e-04	6.524e-04	-6.292e-04	-3.172e-04	3.120e-04	-6.644e-06	-3.445e-05	-2.780e-05	pefr_cs
98	-10.500	-4.167	0.000	-5.107e-05	6.892e-04	6.892e-04	-6.230e-04	-3.120e-04	3.432e-04	-4.632e-06	-4.230e-05	-4.230e-05	pefr_cs
99	-9.500	-4.167	0.000	-3.996e-05	5.849e-04	6.249e-04	-6.165e-04	-2.498e-04	3.676e-04	-1.285e-05	-4.617e-05	-3.331e-05	pefr_cs
100	-8.500	-4.167	0.000	-2.937e-05	5.863e-04	6.157e-04	-6.151e-04	-2.296e-04	3.855e-04	-1.741e-05	-4.372e-05	-2.631e-05	pefr_cs
101	-7.500	-4.167	0.000	-1.859e-05	5.924e-04	6.111e-04	-6.174e-04	-2.210e-04	3.964e-04	-2.269e-05	-3.743e-05	-1.474e-05	pefr_cs
102	-6.500	-4.167	0.000	-8.979e-06	6.048e-04	6.150e-04	-6.220e-04	-2.180e-04	4.085e-04	-2.775e-05	-5.742e-05	-2.965e-05	pefr_cs
103	-5.500	-4.167	0.000	-3.263e-06	6.191e-04	6.187e-04	-6.182e-04	-2.218e-04	3.964e-04	-3.191e-05	-5.523e-05	-2.333e-05	pefr_cs
104	-4.500	-4.167	0.000	1.078e-05	6.591e-06	6.173e-05	-6.059e-04	-2.262e-04	3.797e-04	-3.339e-05	-5.378e-05	-2.040e-05	pefr_cs
105	-3.500	-4.167	0.000	2.375e-05	5.814e-04	5.577e-04	-5.774e-04	-1.955e-04	3.818e-04	-3.157e-05	-1.995e-05	1.162e-05	pefr_cs
106	-2.500	-4.167	0.000	3.557e-05	5.429e-04	5.073e-04	-5.289e-04	-1.635e-04	3.654e-04	-2.716e-05	-2.054e-05	6.615e-06	pefr_cs
107	-1.500	-4.167	0.000	4.204e-05	4.738e-04	4.318e-04	-4.534e-04	-1.213e-04	3.521e-04	-2.103e-05	-2.139e-05	-2.139e-05	pefr_cs
108	-0.500	-4.167	0.000	3.712e-05	3.473e-04	3.101e-04	-3.273e-04	-6.445e-05	2.628e-04	-1.351e-05	-2.467e-05	-1.116e-05	pefr_cs
109	-17.500	-3.833	0.000	-4.251e-05	-1.731e-05	2.520e-05	-3.257e-04	-1.422e-04	1.835e-04	5.361e-06	2.110e-06	3.251e-06	pefr_cs
110	-16.500	-3.833	0.000	-5.759e-05	-2.699e-05	3.060e-05	-4.579e-04	-2.075e-04	2.504e-04	7.504e-06	1.628e-06	-5.876e-06	pefr_cs
111	-15.500	-3.833	0.000	-6.540e-05	-3.681e-05	3.178e-05	-4.409e-04	-2.476e-04	2.933e-04	7.521e-06	-2.702e-06	-1.022e-05	pefr_cs
112	-14.500	-3.833	0.000	-7.151e-05	-4.029e-05	3.195e-05	-4.991e-04	-2.739e-04	3.254e-04	5.409e-06	-1.139e-06	-2.680e-06	pefr_cs
113	-13.500	-3.833	0.000	-7.759e-05	-4.677e-05	3.081e-05	-4.609e-04	-2.891e-04	3.518e-04	1.402e-06	-2.521e-05	-2.661e-05	pefr_cs
114	-12.500	-3.833	0.000	-8.117e-05	-5.170e-05	2.947e-05	-4.672e-04	-2.913e-04	3.759e-04	-3.760e-06	-4.436e-05	-4.060e-05	pefr_cs
115	-11.500	-3.833	0.000	-7.621e-05	-5.059e-05	2.963e-05	-4.679e-04	-2.764e-04	3.985e-04	-7.614e-06	-6.514e-05	-5.753e-05	pefr_cs
116	-10.500	-3.833	0.000	-6.321e-05	-4.700e-05	1.851e-05	-4.682e-04	-2.510e-04	4.181e-04	-6.062e-06	-5.150e-05	-4.080e-05	pefr_cs
117	-9.500	-3.833	0.000	-4.886e-05	-3.892e-05	9.939e-06	-4.617e-04	-2.291e-04	4.326e-04	-1.478e-05	-9.132e-05	-7.653e-05	pefr_cs
118	-8.500	-3.833	0.000	-3.411e-05	-3.283e-05	1.276e-06	-6.613e-04	-2.211e-04	4.402e-04	-1.995e-05	-9.519e-05	-7.524e-05	pefr_cs
119	-7.500	-3.833	0.000	-1.938e-05	6.390e-04	6.584e-04	-6.648e-04	-2.439e-04	4.209e-04	-2.590e-05	-8.836e-05	-4.254e-05	pefr_cs
120	-6.500	-3.833	0.000	-6.390e-06	6.390e-04	6.390e-04	-6.648e-04	-2.439e-04	4.209e-04	-2.590e-05	-8.836e-05	-4.254e-05	pefr_cs
121	-5.500	-3.833	0.000	-3.588e-06	-1.184e-05	-1.203e-05	-6.682e-04	-2.343e-04	4.313e-04	-3.163e-05	-9.028e-05	-5.860e-05	pefr_cs
122	-4.500	-3.833	0.000	1.439e-05	-3.260e-06	-1.765e-05	-6.524e-04	-2.502e-04	4.022e-04	-3.799e-05	-8.222e-05	-4.424e-05	pefr_cs

trial 1 output: 65 of 137

123	-3.500	-3.833	0.000	2.688e-05	7.230e-06	-1.965e-05	-6.206e-04	-2.417e-04	3.789e-04	-3.576e-05	-7.746e-05	-4.170e-05	pefr_cs
124	-2.500	-3.833	0.000	3.820e-05	1.709e-05	-1.111e-05	-6.659e-04	-1.787e-04	3.482e-04	-3.022e-05	-7.075e-05	-4.071e-05	pefr_cs
125	-1.500	-3.833	0.000	4.415e-05	2.346e-05	-2.069e-05	-4.834e-04	-1.786e-04	3.048e-04	-2.397e-05	-6.307e-05	-3.920e-05	pefr_cs
126	-0.500	-3.833	0.000	3.838e-05	2.286e-05	-1.552e-05	-3.458e-04	-1.107e-04	2.351e-04	-1.530e-05	-5.446e-05	-3.916e-05	pefr_cs
127	-17.500	-3.500	-0.000	-4.245e-05	3.230e-04	3.654e-04	-3.404e-04	-1.917e-04	1.487e-04	6.330e-06	-9.559e-06	-1.590e-05	pefr_cs
128	-16.500	-3.500	-0.000	-5.853e-05	4.545e-04	5.130e-04	-4.824e-04	-2.713e-04	1.271e-04	6.713e-06	-1.445e-05	-2.362e-05	pefr_cs
129	-15.500	-3.500	-0.000	-6.781e-05	5.316e-04	6.042e-04	-5.722e-04	-3.310e-04	2.412e-04	8.958e-06	-2.163e-05	-3.059e-05	pefr_cs
130	-14.500	-3.500	-0.000	-7.607e-05	5.908e-04	6.668e-04	-6.348e-04	-3.678e-04	2.671e-04	6.575e-06	-3.044e-05	-3.702e-05	pefr_cs
131	-13.500	-3.500	-0.000	-8.519e-05	6.260e-04	7.112e-04	-6.739e-04	-3.934e-04	2.859e-04	1.878e-06	-4.268e-05	-4.456e-05	pefr_cs
132	-12.500	-3.500	-0.000	-9.241e-05	6.462e-04	7.386e-04	-7.073e-04	-4.035e-04	3.037e-04	-4.079e-06	-6.002e-05	-5.594e-05	pefr_cs
133	-11.500	-3.500	-0.000	-8.986e-05	6.336e-04	7.435e-04	-7.154e-04	-3.856e-04	3.298e-04	-3.824e-06	-5.154e-05	-5.298e-05	pefr_cs
134	-10.500	-3.500	-0.000	-7.959e-05	6.531e-04	7.291e-04	-7.092e-04	-3.441e-04	3.641e-04	-1.194e-05	-9.597e-05	-8.785e-05	pefr_cs
135	-9.500	-3.500	-0.000	-5.820e-05	6.553e-04	7.135e-04	-7.019e-04	-3.049e-04					

trial 1 output: 68 of 137

294	-12.500	-0.500	0.000	-1.495e-04	-1.258e-04	2.379e-05	-9.292e-04	-3.917e-04	5.375e-04	4.468e-05	-2.398e-04	-2.834e-04	pcfr_cs
295	-11.500	-0.500	0.000	-2.096e-04	-1.747e-04	3.522e-05	-9.233e-04	-3.742e-04	5.607e-04	4.406e-05	-2.398e-04	-3.379e-04	pcfr_cs
296	-10.500	-0.500	0.000	-2.050e-04	-1.713e-04	3.362e-05	-9.149e-04	-3.334e-04	5.816e-04	-1.287e-05	-4.224e-04	-4.096e-04	pcfr_cs
297	-9.500	-0.500	0.000	-1.407e-04	-1.200e-04	2.073e-05	-8.997e-04	-3.017e-04	5.981e-04	-3.001e-05	-4.886e-04	-4.586e-04	pcfr_cs
298	-8.500	-0.500	0.000	-6.562e-05	-5.866e-05	6.956e-06	-9.002e-04	-2.939e-04	6.063e-04	-4.465e-05	-5.187e-04	-4.740e-04	pcfr_cs
299	-7.500	-0.500	0.000	1.409e-06	-2.854e-06	-4.263e-06	-9.123e-04	-6.036e-04	6.758e-04	-5.759e-05	-5.212e-04	-4.636e-04	pcfr_cs
300	-6.500	-0.500	0.000	4.790e-05	3.707e-05	1.083e-05	-9.277e-04	-3.308e-04	5.967e-04	-8.024e-05	-9.814e-04	-4.799e-04	pcfr_cs
301	-5.500	-0.500	0.000	6.210e-05	5.174e-05	-1.036e-05	-9.348e-04	-3.542e-04	5.806e-04	-7.458e-05	-4.614e-04	-3.866e-04	pcfr_cs
302	-4.500	-0.500	0.000	4.561e-05	4.206e-05	-3.543e-06	-9.184e-04	-3.611e-04	5.573e-04	-7.072e-05	-4.191e-04	-3.484e-04	pcfr_cs
303	-3.500	-0.500	-0.000	1.899e-05	2.439e-05	4.488e-06	-8.724e-04	-3.472e-04	5.252e-04	-5.985e-05	-3.789e-04	-3.190e-04	pcfr_cs
304	-2.500	-0.500	-0.000	2.035e-07	8.029e-06	8.027e-04	-7.918e-04	-3.115e-04	4.804e-04	-4.593e-05	-2.914e-04	-2.455e-04	pcfr_cs
305	-1.500	-0.500	-0.000	1.041e-05	4.649e-06	1.566e-05	-6.608e-04	-2.473e-04	4.135e-04	-2.688e-05	-2.857e-04	-2.571e-04	pcfr_cs
306	-0.500	-0.500	0.000	-9.683e-06	5.973e-06	1.566e-05	-4.412e-04	-1.351e-04	3.061e-04	-8.909e-06	-2.171e-04	-2.082e-04	pcfr_cs
307	-17.500	-0.167	0.000	6.361e-05	4.999e-04	4.363e-04	-4.512e-04	-1.450e-04	3.062e-04	1.228e-04	-1.398e-04	-2.672e-04	pcfr_cs
308	-16.500	-0.167	0.000	4.371e-05	2.852e-05	-1.520e-05	-6.631e-04	-3.135e-04	3.496e-04	1.298e-04	-5.317e-05	-1.830e-04	pcfr_cs
309	-15.500	-0.167	0.000	6.988e-06	7.888e-06	7.802e-04	-7.887e-04	-3.642e-04	2.464e-04	1.289e-04	-2.124e-04	-3.413e-04	pcfr_cs
310	-14.500	-0.167	0.000	-3.420e-05	-3.396e-05	2.368e-07	-8.680e-04	-4.052e-04	4.628e-04	1.240e-04	-1.126e-04	-3.266e-04	pcfr_cs
311	-13.500	-0.167	0.000	-8.486e-05	-7.440e-05	1.046e-05	-9.171e-04	-4.182e-04	4.988e-04	1.145e-04	-1.466e-04	-2.611e-04	pcfr_cs
312	-12.500	-0.167	0.000	-1.482e-04	-1.254e-04	2.280e-05	-9.422e-04	-4.117e-04	5.305e-04	9.478e-05	-1.968e-04	-2.915e-04	pcfr_cs
313	-11.500	-0.167	0.000	-2.163e-04	-1.709e-04	3.743e-05	-9.453e-04	-3.804e-04	5.649e-04	4.106e-05	-2.903e-04	-3.314e-04	pcfr_cs
314	-10.500	-0.167	0.000	-2.143e-04	-1.771e-04	3.716e-05	-9.229e-04	-3.278e-04	5.950e-04	-1.162e-05	-4.008e-04	-3.832e-04	pcfr_cs
315	-9.500	-0.167	0.000	-1.434e-04	-1.218e-04	2.350e-05	-9.034e-04	-2.888e-04	6.146e-04	-3.096e-05	-4.682e-04	-3.472e-04	pcfr_cs
316	-8.500	-0.167	0.000	-6.489e-05	-5.613e-05	8.765e-06	-9.033e-04	-2.773e-04	6.260e-04	-4.688e-05	-4.982e-04	-4.515e-04	pcfr_cs
317	-7.500	-0.167	0.000	5.506e-06	2.428e-06	-3.078e-06	-9.166e-04	-2.892e-04	6.284e-04	-6.025e-05	-4.986e-04	-4.384e-04	pcfr_cs
318	-6.500	-0.167	0.000	5.247e-05	4.288e-05	9.591e-06	-9.348e-04	-3.461e-04	4.913e-04	-3.275e-05	-3.142e-04	-2.815e-04	pcfr_cs
319	-5.500	-0.167	0.000	6.352e-05	5.555e-05	-7.972e-06	-9.456e-04	-3.374e-04	6.082e-04	-7.750e-05	-4.392e-04	-3.617e-04	pcfr_cs
320	-4.500	-0.167	0.000	4.079e-05	4.200e-05	1.210e-06	-9.308e-04	-3.480e-04	5.828e-04	-6.603e-05	-3.940e-04	-3.280e-04	pcfr_cs
321	-3.500	-0.167	0.000	7.180e-06	1.961e-05	1.243e-06	-8.850e-04	-3.379e-04	5.471e-04	-4.903e-05	-3.530e-04	-3.040e-04	pcfr_cs
322	-2.500	-0.167	0.000	1.191e-04	9.552e-05	-2.346e-05	-8.046e-04	-3.063e-04	4.913e-04	-3.275e-05	-3.142e-04	-2.815e-04	pcfr_cs
323	-1.500	-0.167	0.000	4.398e-05	-1.246e-05	1.153e-06	-6.735e-04	-2.472e-04	4.266e-04	-1.108e-05	-2.664e-04	-2.554e-04	pcfr_cs
324	-0.500	-0.167	0.000	-5.480e-05	-1.897e-05	3.583e-05	-4.532e-04	-1.418e-04	3.114e-04	1.971e-05	-1.993e-04	-2.190e-04	pcfr_cs

OBJECT: brfr
ELT CENTER COORD SYS: brfr_cs

DISPLACEMENTS:

ELT	XIC	X2C	X3C	R1	U1 (+)	U1 (-)	B2	U2 (+)	U2 (-)	B3	U3 (+)	U3 (-)	Coord Sys
1	-5.250	-5.750	0.000	4.400e-05	4.429e-05	2.241e-07	-1.697e-04	-1.341e-04	2.660e-05	-1.151e-05	7.531e-05	7.628e-05	brfr_cs
2	-5.250	-5.750	0.000	6.501e-05	5.620e-05	-8.811e-06	-2.125e-04	-1.521e-04	6.037e-05	-2.814e-06	9.119e-05	9.400e-05	brfr_cs
3	-4.750	-5.750	0.000	7.966e-05	6.481e-05	-1.486e-05	-2.415e-04	-1.586e-04	8.295e-05	-4.530e-05	1.040e-04	1.085e-04	brfr_cs
4	-4.250	-5.750	0.000	9.101e-05	7.175e-05	-1.926e-05	-2.596e-04	-1.595e-04	1.001e-04	-6.109e-05	1.142e-04	1.203e-04	brfr_cs
5	-3.750	-5.750	0.000	1.003e-04	7.779e-05	-2.259e-05	-2.700e-04	-1.233e-04	1.270e-04	-1.296e-05	1.270e-04	1.368e-04	brfr_cs
6	-3.250	-5.750	0.000	1.089e-04	8.375e-05	-2.479e-05	-2.744e-04	-1.500e-04	1.244e-04	-6.227e-06	1.286e-04	1.368e-04	brfr_cs
7	-2.750	-5.750	0.000	1.143e-04	8.176e-05	-2.617e-05	-2.731e-04	-1.403e-04	1.328e-04	-8.599e-06	1.333e-04	1.419e-04	brfr_cs
8	-2.250	-5.750	0.000	1.188e-04	9.228e-05	-2.657e-05	-2.663e-04	-1.272e-04	1.391e-04	-8.411e-06	1.366e-04	1.450e-04	brfr_cs
9	-1.750	-5.750	0.000	1.209e-04	9.508e-05	-2.582e-05	-2.536e-04	-1.105e-04	1.430e-04	-7.577e-06	1.387e-04	1.463e-04	brfr_cs
10	-1.250	-5.750	0.000	1.191e-04	9.552e-05	-2.346e-05	-2.338e-04	-9.868e-05	1.426e-04	-6.201e-06	1.393e-04	1.455e-04	brfr_cs
11	-0.750	-5.750	0.000	1.107e-04	9.233e-05	-1.833e-05	-2.041e-04	-6.322e-05	1.409e-04	-4.489e-06	1.381e-04	1.426e-04	brfr_cs
12	-0.250	-5.750	0.000	8.745e-05	1.049e-05	9.612e-04	-1.540e-04	-7.574e-04	-6.034e-04	-2.529e-06	1.285e-04	1.261e-04	brfr_cs
13	-5.750	-5.250	-0.000	5.875e-05	2.723e-04	2.136e-04	-2.256e-04	-1.141e-04	1.115e-04	-2.803e-06	5.769e-05	6.049e-05	brfr_cs
14	-5.250	-5.250	0.000	8.696e-05	3.704e-04	2.154e-04	-3.082e-04	-1.187e-04	1.806e-04	-5.800e-06	7.334e-05	7.914e-05	brfr_cs
15	-4.750	-5.250	0.000	1.075e-04	4.299e-04	3.214e-04	-3.551e-04	-1.126e-04	2.424e-04	-8.841e-06	8.694e-05	9.578e-05	brfr_cs

Stop on Bow Ridge Fault

trial 1 output: 69 of 137

0.000	1.239e-04	4.675e-04	4.356e-04	-3.839e-04	-1.016e-04	2.823e-04	-1.152e-05	9.826e-05	1.098e-04	brfr_cs
0.000	1.374e-04	4.926e-04	3.551e-04	-4.005e-04	-8.699e-05	3.135e-04	-1.377e-05	1.075e-04	1.212e-04	brfr_cs
0.000	1.486e-04	5.067e-04	3.581e-04	-4.071e-04	-8.911e-05	3.378e-04	-1.516e-05	1.147e-04	1.298e-04	brfr_cs
0.000	1.572e-04	5.160e-04	3.512e-04	-4.046e-04	-2.061e-04	1.985e-04	-1.587e-05	1.042e-04	1.201e-04	brfr_cs
0.000	1.629e-04	5.041e-04	3.412e-04	-3.931e-04	-2.616e-05	1.670e-04	-1.553e-05	1.238e-04	1.393e-04	brfr_cs
0.000	1.642e-04	4.895e-04	3.213e-04	-3.719e-04	-1.911e-06	3.700e-04	-1.437e-05	1.258e-04	1.402e-04	brfr_cs
0.000	1.502e-04	4.518e-04	2.926e-04	-3.300e-04	2.921e-05	3.617e-04	-1.206e-05	1.261e-04	1.382e-04	brfr_cs
0.000	1.437e-04	4.555e-04	2.953e-04	-2.897e-04	4.576e-05	3.354e-04	-9.115e-05	1.248e-04	1.339e-04	brfr_cs
0.000	1.073e-04	2.958e-04	1.885e-04	-2.081e-04	-6.477e-05	2.729e-04	-5.344e-06	1.217e-04	1.270e-04	brfr_cs
0.000	6.607e-05	3.141e-04	2.480e-04	-2.707e-04	-1.363e-04	1.143e-04	-4.923e-06	3.361e-05	3.854e-05	brfr_cs
0.000	9.792e-05	4.369e-04	3.389e-04	-3.763e-04	-1.481e-04	2.282e-04	-9.346e-06	4.670e-05	5.606e-05	brfr_cs
0.000	1.215e-04	5.115e-04	3.900e-04	-4.377e-04	-1.457e-04	2.820e-04	-1.367e-05	5.856e-05	7.224e-05	brfr_cs
0.000	1.407e-04	5.609e-04	4.202e-04	-4.757e-04	-1.356e-04	3.401e-04	-1.750e-05	1.381e-04	1.426e-04	brfr_cs
0.000	1.568e-04	5.928e-04	4.360e-04	-4.976e-04	-1.202e-04	3.774e-04	-2.070e-05	7.750e-05	9.821e-05	brfr_cs
0.000	1.699e-04	6.102e-04	4.403e-04	-5.061e-04	-1.003e-04	4.058e-04	-2.279e-05	8.461e-05	1.074e-04	brfr_cs
0.000	1.799e-04	6.140e-04	4.368e-04	-5.024e-04	-7.636e-05	4.258e-04	-2.369e-05	9.029e-05	1.140e-04	brfr_cs
0.000	1.858e-04	6.036e-04	4.177e-04	-4.866e-04	-4.989e-05	4.368e-04	-2.335e-05	9.465e-05	1.180e-04	brfr_cs
0.000	1.662e-04	5.772e-04	3.910e-04	-4.579e-04	-2.106e-05	4.368e-04	-2.167e-05	9.773e-05	1.194e-04	brfr_cs
0.000	1.785e-04	5.172e-04	-6.133e-05	-4.137e-04	-1.700e-04	2.437e-04	-1.862e-05	8.087e-05	9.949e-05	brfr_cs
0.000	1.583e-04	4.562e-04	2.979e-04	-3.482e-04	3.725e-05	3.854e-04	-1.425e-05	9.388e-05	1.141e-04	brfr_cs
0.000	1.156e-04	3.307e-04	2.151e-04	-2.440e-04	-6.349e-05	3.075e-04	-8.746e-06	9.876e-05	1.075e-04	brfr_cs
0.000	6.929e-05	3.425e-04	2.732e-04	-3.065e-04	-1.016e-04	2.823e-04	-1.152e-05	9.826e-05	1.098e-04	brfr_cs
0.000	1.028e-04	5.370e-05	-4.909e-05	-4.309e-04	-2.811e-04	1.498e-04	-1.360e-05	-4.274e-07	1.318e-05	brfr_cs
0.000	1.280e-04	6.781e-05	-6.013e-05	-5.501e-04	-3.081e-04	1.969e-04	-1.928e-05	3.510e-06	2.282e-05	brfr_cs
0.000	1.489e-04	6.318e-04	4.829e-04	-5.156e-04	-1.720e-04	3.796e-04	-2.435e-05	3.155e-05	5.590e-05	brfr_cs
0.000	1.656e-04	6.914e-04	5.521e-04	-5.216e-04	-1.640e-04	4.034e-04	-2.617e-05	3.696e-05	6.470e-05	brfr_cs
0.000	1.858e-04	7.013e-04	5.717e-04	-5.890e-04	-3.164e-04	2.726e-04	-3.122e-05	1.942e-05	4.616e-05	brfr_cs
0.000	1.920e-04	1.095e-04	-8.249e-05	-5.844e-04	-3.101e-04	2.834e-04	-3.251e-05	1.362e-05	5.213e-05	brfr_cs
0.000	1.981e-04	1.152e-04	-8.279e-05	-5.640e-04	-2.768e-04	2.880e-04	-3.209e-05	2.515e-05	5.724e-05	brfr_cs
0.000	1.997e-04	1.176e-04	-8.017e-05	-5.292e-04	-2.432e-04	2.944e-04	-3.171e-05	2.515e-05	5.724e-05	brfr_cs
0.000	1.978e-04	1.176e-04	-8.017e-05	-5.292e-04	-2.432e-04	2.944e-04	-3.171e-05	2.515e-05	5.724e-05	brfr_cs
0.000	1.981e-04	1.176e-04	-8.017e-05	-5.292e-04	-2.432e-04	2.944e-04	-3.171e-05	2.515e-05	5.724e-05	brfr_cs
0.000	1.656e-04	1.044e-04	-6.115e-05	-3.962e-04	-1.414e-04	2.548e-04	-2.000e-05	4.696e-05	6.696e-05	brfr_cs
0.000	1.197e-04	8.152e-05	-3.823e-05	-2.741e-04	-6.140e-05	2.127e-04	-1.237e-05	5.521e-05	6.758e-05	brfr_cs
0.000	6.944e-05	5.212e-05	-6.433e-05	-3.357e-04	-2.527e-04	8.302e-05	-1.048e-05	-4.535e-05	-3.487e-05	brfr_cs
0.000	1.292e-04	5.713e-05	-7.260e-05	-5.619e-04	-3.455e-04	2.163e-04	-2.589e-05	-4.656e-05	-2.067e-05	brfr_cs
0.000	1.511e-04	7.021e-05	-8.091e-05	-6.166e-04	-3.619e-04	2.547e-04	-3.228e-05	-4.623e-05	-1.395e-05	brfr_cs
0.000	1.700e-04	8.282e-05	-8.772e-05	-6.487e-04	-3.661e-04	2.825e-04	-3.735e-05	-4.484e-05	-7.481e-06	brfr_cs
0.000	1.973e-04	1.021e-04	-9.526e-05	-6.535e-04	-3.427e-04	3.136e-04	-4.228e-05	-3.748e-05	4.795e-06	brfr_cs
0.000	2.038e-04	1.083e-04	-9.541e-05	-6.636e-04	-3.155e-04	3.180e-04	-4.168e-05	-3.108e-05	1.060e-05	brfr_cs
0.000	2.032e-04	1.108e-04	-9.241e-05	-5.920e-04	-2.773e-04	3.147e-04	-3.885e-05	-2.277e-05	6.608e-05	brfr_cs
0.000	1.689e-04	9.687e-05	-7.207e-05	-4.388e-04	-1.615e-04	2.773e-04	-2.643e-05	-1.240e-05	2.519e-05	brfr_cs
0.000	2.116e-04	7.322e-05	-8.440e-05	-3.105e-04	-7.194e-05	2.295e-04	-1.661e-05	1.109e-05	2.770e-05	brfr_cs
0.000	6.696e-05	1.148e-05	-5.550e-05	-3.589e-04	-2.750e-04	8.391e-05	-1.402e-05	-9.282e-05	-7.880e-05	brfr_cs
0.000	1.001e-04	2.836e-05	7.180e-05	-5.100e-04	-1.002e-04	3.044e-04	-1.712e-05	-1.001e-05	1.001e-05	brfr_cs
0.000	6.696e-05	1.148e-05	-5.550e-05	-3.589e-04	-2.750e-04	8.391e-05	-1.402e-05	-9.282e-05	-7.880e-05	brfr_cs
0.000	1.488e-04	5.626e-05	-9.525e-05	-6.729e-04	-4.004e-04	2.724e-04	-4.105e-05	-1.089e-04	-6.782e-05	brfr_cs
0.000	1.686e-04	6.905e-05	-9.955e-05	-7.120e-04	-4.068e-04	3.034e-04	-4.712e-05	-1.103e-04	-6.323e-05	brfr_cs
0.000	1.852e-04	8.061e-05	-1.046e-04	-7.255e-04	-4.084e-04	3.246e-04	-5.001e-05	-1.103e-04	-6.323e-05	brfr_cs
0.000	1.973e-04	9.526e-05	-1.000e-04	-3.802e-04	-2.298e-04	2.298e-04	-3.195e-05	-1.051e-04	-5.209e-05	brfr_cs
0.000	2.046e-04	9.707e-05	-1.076e-04	-6.949e-04	-3.529e-04	3.199e-04	-5.239e-05	-9.795e-05	-4.563e-05	brfr_cs
0.000	2.043e-04	7.481e-04	5.488e-04	-6.482e-04	-1.062e-04	5.420e-04	-4.890e-05	-3.886e-05	1.004e-05	brfr_cs
0.000	1.940e-04	6.748e-04	4.808e-04	-5.778e-04	-8.348e-05	5.173e-04	-4.272e-05	-3.207e-05	1.060e-05	brfr_cs
0.000	1.940e-04	6.748e-04	4.808e-04	-5.778e-04	-8.348e-05	5.173e-04	-4.272e-05	-3.207e-05	1.060e-05	brfr_cs
0.000	1.239e-04	4.675e-04	4.356e-04	-3.839e-04	-1.016e-04	2.823e-04	-1.152e-05	9.826e-05	1.098e-04	brfr_cs

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-2.005	-14.010	-0.100	1.000	-0.013	-0.000	1.026e+01	0.013	0.999	0.041	9.168e-02	-0.001	-0.041	0.999	-8.601e-05
-1.005	-14.010	-0.100	1.000	-0.008	-0.000	1.029e+01	0.000	0.024	1.000	6.474e-05	0.008	1.000	-0.024	-5.083e-02
-0.005	-14.010	-0.100	1.000	-0.001	-0.000	1.026e+01	-0.000	-0.006	1.000	1.036e-05	0.001	1.000	0.006	-1.439e-01
0.995	-14.010	-0.100	1.000	0.005	0.000	1.021e+01	0.000	-0.012	1.000	8.940e-06	0.005	1.000	0.012	-1.907e-01
1.996	-14.010	-0.100	1.000	0.009	0.000	1.016e+01	0.000	-0.014	1.000	1.112e-05	-0.009	1.000	0.014	-2.104e-01
2.996	-14.010	-0.100	1.000	0.011	0.000	1.012e+01	0.000	-0.015	1.000	1.248e-05	-0.011	1.000	0.015	-2.181e-01
3.997	-14.010	-0.100	1.000	0.012	0.000	1.008e+01	0.000	-0.016	1.000	1.275e-05	-0.012	1.000	0.016	-2.208e-01
4.997	-14.010	-0.100	1.000	0.014	0.000	1.005e+01	0.000	-0.015	1.000	1.239e-05	-0.013	1.000	0.015	-2.201e-01
5.998	-14.010	-0.100	1.000	0.014	0.000	1.003e+01	0.000	-0.015	1.000	1.276e-05	-0.013	1.000	0.015	-2.157e-01
6.998	-14.010	-0.100	1.000	0.014	0.000	1.001e+01	0.000	-0.015	1.000	1.104e-05	-0.014	1.000	0.015	-2.073e-01
7.999	-14.010	-0.100	1.000	0.015	0.000	9.993e+00	0.000	-0.015	1.000	1.029e-05	-0.015	1.000	0.015	-1.955e-01
8.999	-14.010	-0.100	1.000	0.015	0.000	9.977e+00	0.000	-0.015	1.000	9.526e-06	-0.015	1.000	0.015	-1.811e-01
10.000	-14.010	-0.100	1.000	0.014	0.000	9.963e+00	0.000	-0.015	1.000	8.763e-06	-0.014	1.000	0.015	-1.652e-01
-10.010	-13.009	-0.100	1.000	0.006	0.000	1.014e+01	-0.006	0.999	0.035	8.986e-02	-0.000	-0.035	0.999	-5.066e-05
-9.009	-13.009	-0.100	1.000	0.009	0.000	1.016e+01	-0.009	1.000	0.029	1.563e-01	-0.000	-0.029	1.000	-5.437e-05
-8.009	-13.009	-0.100	1.000	0.012	0.001	1.017e+01	-0.012	1.000	0.025	2.354e-01	-0.000	-0.025	1.000	-5.759e-05
-7.008	-13.009	-0.100	1.000	0.013	0.001	1.017e+01	-0.013	1.000	0.021	3.380e-01	-0.000	-0.021	1.000	-5.789e-05
-6.008	-13.009	-0.100	1.000	0.011	0.001	1.015e+01	-0.011	1.000	0.019	4.548e-01	-0.000	-0.019	1.000	-5.469e-05
-5.008	-13.009	-0.100	1.000	0.002	0.001	1.014e+01	-0.002	1.000	0.018	5.483e-01	-0.001	-0.018	1.000	-5.330e-05
-4.007	-13.009	-0.100	1.000	-0.002	0.000	1.018e+01	0.002	1.000	0.020	5.394e-01	-0.001	-0.020	1.000	-6.918e-05
-3.006	-13.009	-0.100	1.000	-0.022	0.000	1.029e+01	0.022	0.999	0.029	3.609e-01	-0.001	-0.029	1.000	-1.249e-04
-2.006	-13.009	-0.100	1.000	-0.019	-0.000	1.040e+01	0.019	0.997	0.080	2.484e-02	-0.002	-0.080	0.997	-3.983e-04
-1.005	-13.009	-0.100	1.000	-0.006	-0.000	1.041e+01	0.006	1.000	0.013	0.933e-05	0.006	1.000	-0.013	-1.390e-01
-0.005	-13.009	-0.100	1.000	0.006	0.000	1.034e+01	-0.006	-0.007	1.000	2.264e-05	-0.006	1.000	0.007	-2.434e-01
0.995	-13.009	-0.100	1.000	0.013	0.000	1.024e+01	0.000	-0.013	1.000	1.838e-05	-0.013	1.000	0.013	-2.714e-01
1.996	-13.009	-0.100	1.000	0.016	0.000	1.016e+01	0.000	-0.016	1.000	2.024e-05	-0.016	1.000	0.016	-2.717e-01
2.996	-13.009	-0.100	1.000	0.017	0.000	1.010e+01	0.000	-0.017	1.000	2.051e-05	-0.017	1.000	0.017	-2.686e-01
3.997	-13.009	-0.100	1.000	0.018	0.000	1.006e+01	0.000	-0.017	1.000	1.936e-05	-0.018	1.000	0.017	-2.673e-01
4.997	-13.009	-0.100	1.000	0.018	0.000	1.003e+01	0.000	-0.017	1.000	1.786e-05	-0.018	1.000	0.017	-2.649e-01
5.998	-13.009	-0.100	1.000	0.018	0.000	1.001e+01	0.000	-0.016	1.000	1.644e-05	-0.018	1.000	0.016	-2.581e-01
6.998	-13.009	-0.100	1.000	0.018	0.000	9.988e+00	0.000	-0.017	1.000	1.515e-05	-0.018	1.000	0.016	-2.457e-01
7.999	-13.009	-0.100	1.000	0.019	0.000	9.965e+00	0.000	-0.016	1.000	1.301e-05	-0.019	1.000	0.016	-2.285e-01
8.999	-13.009	-0.100	1.000	0.018	0.000	9.949e+00	0.000	-0.016	1.000	1.270e-05	-0.018	1.000	0.016	-2.084e-01
10.000	-13.009	-0.100	1.000	0.018	0.000	9.935e+00	0.000	-0.016	1.000	1.152e-05	-0.018	1.000	0.016	-1.871e-01
-10.010	-12.009	-0.100	1.000	0.008	0.001	1.017e+01	-0.008	0.999	0.040	1.021e-01	-0.000	-0.040	0.999	-7.581e-05
-9.009	-12.009	-0.100	1.000	0.012	0.001	1.021e+01	-0.012	1.000	0.033	1.678e-01	-0.000	-0.033	0.999	-8.269e-05
-8.009	-12.009	-0.100	1.000	0.017	0.001	1.023e+01	-0.017	0.999	0.027	2.645e-01	-0.000	-0.027	1.000	-8.834e-05
-7.008	-12.009	-0.100	1.000	0.021	0.001	1.023e+01	-0.021	1.000	0.021	4.029e-01	-0.000	-0.021	1.000	-8.684e-05
-6.008	-12.009	-0.100	1.000	0.022	0.001	1.020e+01	-0.022	1.000	0.017	5.889e-01	-0.001	-0.017	1.000	-7.514e-05
-5.008	-12.009	-0.100	1.000	0.012	0.001	1.016e+01	-0.012	1.000	0.015	7.942e-01	-0.001	-0.015	1.000	-6.335e-05
-4.007	-12.009	-0.100	1.000	-0.014	0.001	1.020e+01	0.014	1.000	0.019	8.719e-01	-0.002	-0.019	1.000	-1.093e-04
-3.006	-12.009	-0.100	1.000	-0.037	0.001	1.044e+01	0.037	0.999	0.036	5.692e-01	-0.002	-0.036	0.999	-3.852e-04
-2.006	-12.009	-0.100	1.000	-0.026	0.000	1.067e+01	0.026	0.998	0.557	2.013e-02	-0.015	-0.557	0.830	-8.629e-03
-1.005	-12.009	-0.100	1.000	0.002	0.000	1.081e+01	-0.002	0.009	1.000	1.593e-04	-0.002	1.000	-0.009	-3.213e-01
-0.005	-12.009	-0.100	1.000	0.012	0.000	1.041e+01	0.000	-0.008	1.000	4.013e-04	-0.021	1.000	0.008	-3.882e-01
0.995	-12.009	-0.100	1.000	0.028	0.000	1.022e+01	0.000	-0.015	1.000	1.027e-05	-0.028	1.000	0.015	-3.578e-01
1.996	-12.009	-0.100	1.000	0.027	0.000	1.010e+01	0.000	-0.018	1.000	3.494e-05	-0.027	0.999	0.018	-3.254e-01
2.996	-12.009	-0.100	1.000	0.025	0.000	1.004e+01	0.000	-0.018	1.000	3.168e-05	-0.025	1.000	0.018	-3.139e-01
3.997	-12.009	-0.100	1.000	0.024	0.000	1.001e+01	0.000	-0.018	1.000	2.754e-05	-0.024	1.000	0.018	-3.154e-01
4.997	-12.009	-0.100	1.000	0.023	0.000	9.987e+00	0.000	-0.018	1.000	2.444e-05	-0.023	1.000	0.018	-3.142e-01
5.998	-12.009	-0.100	1.000	0.024	0.000	9.966e+00	0.000	-0.017	1.000	2.225e-05	-0.024	1.000	0.017	-3.083e-01
6.998	-12.009	-0.100	1.000	0.024	0.000	9.946e+00	0.000	-0.017	1.000	2.041e-05	-0.024	1.000	0.017	-2.908e-01
7.999	-12.009	-0.100	1.000	0.023	0.000	9.926e+00	0.000	-0.017	1.000	1.864e-05	-0.023	1.000	0.017	-2.664e-01
8.999	-12.009	-0.100	1.000	0.023	0.000	9.906e+00	0.000	-0.017	1.000	1.686e-05	-0.023	1.000	0.017	-2.386e-01
10.000	-12.009	-0.100	1.000	0.022	0.000	9.886e+00	0.000	-0.017	1.000	1.513e-05	-0.022	1.000	0.017	-2.102e-01
-10.010	-11.009	-0.100	1.000	0.010	0.001	1.022e+01	-0.010	0.999	0.047	9.778e-02	-0.000	-0.047	0.999	-1.135e-04
-9.009	-11.009	-0.100	1.000	0.016	0.001	1.027e+01	-0.016	0.999	0.037	1.660e-01	-0.000	-0.037	0.999	-1.261e-04

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-9.009	-11.009	-0.100	1.000	0.024	0.001	1.032e+01	-0.024	0.999	0.029	2.702e-01	-0.000	-0.029	0.999	-1.372e-04
-8.008	-11.009	-0.100	0.999	0.033	0.001	1.034e+01	-0.033	0.999	0.020	4.302e-01	-0.000	-0.020	1.000	-1.360e-04
-7.008	-11.009	-0.100	0.999	0.040	0.001	1.030e+01	-0.040	0.999	0.011	6.778e-01	-0.001	-0.011	1.000	-1.249e-04
-6.008	-11.009	-0.100	0.999	0.036	0.002	1.021e+01	-0.036	0.999	0.005	1.053e+00	-0.002	-0.005	1.000	-1.337e-04
-5.008	-11.009	-0.100	1.000	-0.004	0.004	1.018e+01	0.004	-0.011	0.000	1.470e+01	-0.011	-2.330e-04		
-4.007	-11.009	-0.100	1.000	-0.004	0.004	1.018e+01	0.004	-0.011	0.000	1.470e+01	-0.011	-2.330e-04		
-3.006	-11.009	-0.100	0.997	-0.072	0.003	1.075e+01	0.072	0.996	0.047	1.041e+00	-0.006	-0.047	0.999	-1.717e-03
-2.006	-11.009	-0.100	1.000	-0.029	0.000	1.129e+01	0.003	0.103	0.995	3.968e-03	0.028	0.994	-0.103	-3.607e-01
-1.005	-11.009	-0.100	0.999	0.034	0.000	1.086e+01	-0.034	0.004	1.000	1.997e-04	-0.034	0.999	-0.004	-6.001e-01
-0.005	-11.009	-0.100	0.999	0.054	0.001	1.036e+01	-0.054	0.000	-0.012	5.012e-05	-0.054	0.999	0.012	-5.453e-01
0.995	-11.009	-0.100	0.999	0.050	0.001	1.008e+01	0.000	-0.019	1.000	5.982e-05	-0.050	0.999	0.019	-4.050e-01
1.996	-11.009	-0.100	0.999	0.041	0.001	9.964e+00	0.000	-0.021	1.000	5.278e-05	-0.041	0.999	0.021	-3.415e-01
2.996	-11.009	-0.100	0.999	0.034	0.001	9.933e+00	0.000	-0.020	1.000	4.270e-05	-0.034	0.999	0.020	-3.419e-01
3.997	-11.009	-0.100	0.999	0.032	0.001	9.932e+00	0.000	-0.019	1.000	3.422e-05	-0.030	0.999	0.019	-3.651e-01
4.997	-11.009	-0.100	0.999	0.031	0.001	9.928e+00	0.000	-0.018	1.000	3.070e-05	-0.030	0.999	0.018	-3.784e-01
5.998	-11.009	-0.100	1.000	0.030	0.001	9.913e+00	0.000	-0.018	1.000	2.891e-05	-0.030	0.999	0.018	-3.705e-01
6.998	-11.009	-0.100	1.000	0.030	0.001	9.893e+00	0.000	-0.018</						

trial 1 output: 76 of 137

-5.008	-3.006	-0.100	1.000	0.009	-0.007	1.149e+01	0.006	0.024	1.000	-5.259e-03	-0.009	1.000	-0.024	-4.017e-01
-4.007	-3.006	-0.100	1.000	0.014	-0.024	1.016e+01	0.024	0.007	1.000	-1.932e-02	-0.014	1.000	-0.007	-7.453e-01
-3.006	-3.006	-0.100	1.000	0.021	0.014	6.127e+00	-0.013	-0.039	0.999	5.455e-02	-0.021	0.999	0.039	-1.439e+00
-2.006	-3.006	-0.100	0.993	0.115	0.040	4.896e+00	-0.043	0.023	0.999	-7.407e-03	-0.114	0.993	-0.028	-8.711e-01
-1.005	-3.006	-0.100	0.993	0.113	0.018	6.156e+00	-0.020	0.022	1.000	-4.891e-03	-0.022	1.000	-0.028	-8.711e-01
-0.005	-3.006	-0.100	0.995	0.095	0.003	7.816e+00	-0.003	0.003	1.000	-7.746e-03	-0.113	0.993	-0.024	-5.218e-01
0.995	-3.006	-0.100	0.997	0.078	-0.013	8.058e+00	0.014	-0.013	1.000	-7.174e-03	-0.077	0.997	0.014	-1.583e+00
1.995	-3.006	-0.100	0.998	0.004	-0.056	6.546e+00	0.056	0.011	0.998	-2.445e-02	-0.005	1.000	-0.011	-2.533e+00
2.996	-3.006	-0.100	0.992	0.119	0.031	3.348e+00	-0.042	0.033	0.995	5.767e-03	-0.116	0.989	-0.097	-6.154e-01
3.997	-3.006	-0.100	0.976	0.217	0.018	4.871e+00	-0.011	-0.031	0.999	-2.172e-03	-0.218	0.990	0.048	-6.125e-01
4.997	-3.006	-0.100	0.981	0.191	0.012	6.008e+00	-0.003	-0.049	0.999	-1.538e-04	-0.191	0.976	0.027	-6.515e-01
5.998	-3.006	-0.100	0.988	0.153	0.009	6.852e+00	-0.001	-0.052	0.999	2.288e-04	-0.154	0.987	0.051	-5.201e-01
6.998	-3.006	-0.100	0.993	0.120	0.006	7.493e+00	-0.000	-0.052	0.999	2.388e-04	-0.121	0.991	0.051	-4.120e-01
7.999	-3.006	-0.100	0.996	0.094	0.005	7.963e+00	0.000	-0.051	0.999	1.953e-04	-0.094	0.994	0.051	-3.139e-01
8.999	-3.006	-0.100	0.997	0.074	0.003	8.334e+00	0.000	-0.051	0.999	1.808e-04	-0.074	0.996	0.051	-1.721e-01
10.000	-3.006	-0.100	0.998	0.058	0.003	8.624e+00	0.000	-0.051	0.999	1.319e-04	-0.058	0.997	0.051	-2.339e-01
-6.008	-2.006	-0.100	1.000	-0.011	0.002	1.045e+01	-0.001	0.099	0.995	3.574e-04	0.011	0.995	-0.099	-1.048e-02
-5.008	-2.006	-0.100	1.000	-0.012	0.003	1.073e+01	-0.001	0.107	0.994	3.998e-04	0.012	0.994	-0.107	-1.948e-02
-4.007	-2.006	-0.100	1.000	-0.013	0.003	1.109e+01	-0.002	0.098	0.995	2.532e-04	0.013	0.995	-0.098	-3.904e-02
-3.006	-2.006	-0.100	1.000	-0.012	0.002	1.148e+01	-0.001	0.077	0.997	-3.148e-04	0.012	0.997	-0.077	-8.394e-02
-2.006	-2.006	-0.100	1.000	-0.010	-0.000	1.173e+01	0.001	0.054	0.999	-1.633e-03	0.010	0.998	-0.054	-1.814e-01
-1.005	-2.006	-0.100	1.000	-0.005	-0.006	1.155e+01	0.006	0.034	0.999	-4.911e-03	0.005	0.999	-0.034	-3.742e-01
-0.005	-2.006	-0.100	0.999	0.025	0.033	6.199e+00	-0.032	-0.041	0.999	-1.951e-02	-0.002	1.000	-0.015	-7.347e-01
0.995	-2.006	-0.100	0.995	0.086	0.045	5.010e+00	-0.050	0.060	0.997	-7.706e-03	-0.083	0.995	-0.064	-5.635e-01
1.996	-2.006	-0.100	0.999	0.048	0.021	6.909e+00	-0.052	0.834	0.550	7.619e-02	0.009	-0.550	0.835	-4.084e-02
2.996	-2.006	-0.100	0.999	0.010	0.003	8.181e+00	-0.004	0.112	0.994	3.496e-03	-0.010	0.994	-0.112	-8.575e-01
3.997	-2.006	-0.100	0.999	0.031	-0.013	8.502e+00	0.013	-0.003	1.000	-7.491e-03	-0.031	1.000	-0.002	-1.669e+00
4.997	-2.006	-0.100	0.998	0.002	-0.055	6.616e+00	0.055	0.007	0.998	-2.685e-02	-0.002	1.000	-0.002	-2.697e+00
5.998	-2.006	-0.100	0.996	0.085	0.030	3.213e+00	-0.034	0.041	0.999	-1.563e-03	-0.083	0.996	-0.043	-8.138e-01
6.998	-2.006	-0.100	0.998	0.169	0.021	4.408e+00	-0.016	-0.026	1.000	-2.058e-03	-0.169	0.985	0.023	-7.908e-01
7.999	-2.006	-0.100	0.998	0.123	0.015	5.435e+00	-0.015	-0.044	0.999	-6.137e-04	-0.123	0.986	0.042	-6.574e-01
8.999	-2.006	-0.100	0.990	0.138	0.011	6.344e+00	-0.004	-0.050	0.999	-1.276e-04	-0.138	0.989	0.049	-5.101e-01
10.000	-2.006	-0.100	0.994	0.111	0.008	7.063e+00	-0.002	-0.053	0.999	3.486e-05	-0.111	0.992	0.053	-3.788e-01
-6.008	-2.006	-0.100	0.996	0.087	0.006	7.631e+00	-0.001	-0.055	0.998	9.123e-05	-0.087	0.995	0.055	-2.735e-01
-5.008	-2.006	-0.100	0.998	0.058	0.000	8.076e+00	-0.000	-0.057	0.998	1.121e-04	-0.058	0.996	0.057	-1.944e-01
-4.007	-2.006	-0.100	1.000	-0.013	0.002	1.039e+01	0.013	0.000	0.998	1.201e-02	-0.054	0.997	0.060	-1.365e-01
-3.006	-2.006	-0.100	1.000	-0.011	0.003	1.066e+01	0.016	0.998	0.067	1.802e-02	-0.004	-0.067	0.998	1.309e-04
-2.006	-2.006	-0.100	1.000	-0.010	0.003	1.091e+01	0.017	0.970	0.242	1.932e-02	-0.008	-0.242	0.970	8.025e-04
-1.005	-2.006	-0.100	1.000	-0.009	0.003	1.118e+01	0.017	0.994	0.533	1.284e-02	0.021	0.952	-0.304	-2.027e-02
-0.005	-2.006	-0.100	1.000	-0.002	0.001	1.155e+01	0.002	0.113	0.994	-7.147e-04	0.022	0.993	-0.113	-1.027e-01
0.995	-2.006	-0.100	1.000	-0.019	-0.005	1.152e+01	0.007	0.063	0.998	-3.922e-03	0.019	0.998	-0.063	-2.331e-01
1.996	-2.006	-0.100	1.000	-0.011	-0.023	1.032e+01	0.023	0.033	0.999	-1.877e-02	0.010	0.999	-0.033	-6.913e-01
2.996	-2.006	-0.100	0.999	0.010	0.000	6.257e+00	-0.057	-0.057	0.997	3.831e-02	-0.039	0.998	0.055	-1.137e+00
3.997	-2.006	-0.100	0.994	0.093	0.054	5.170e+00	-0.050	-0.051	0.997	-7.111e-02	-0.096	0.994	0.046	-2.416e-01
4.997	-2.006	-0.100	0.999	0.021	0.042	7.317e+00	-0.024	0.998	0.052	1.352e+00	-0.040	-0.053	0.998	2.236e-02
5.998	-2.006	-0.100	0.993	0.115	0.000	1.042e+01	0.099	0.852	0.514	5.643e-01	-0.059	-0.511	0.858	-1.792e-01
6.998	-2.006	-0.100	0.998	0.067	-0.012	9.312e+00	0.012	0.010	1.000	-6.288e-03	-0.067	0.998	-0.009	-2.146e+00
7.999	-2.006	-0.100	0.995	0.093	0.027	3.086e+00	-0.029	0.021	0.999	-2.988e-02	-0.041	0.999	-0.002	-2.635e+00
8.999	-2.006	-0.100	0.988	0.152	0.023	4.025e+00	-0.020	-0.023	0.999	-1.309e-03	-0.152	0.988	-0.023	-1.083e+00
10.000	-2.006	-0.100	0.989	0.147	0.018	4.997e+00	-0.012	-0.038	0.999	-1.124e-03	-0.147	0.988	0.035	-7.636e-01
-6.008	-2.006	-0.100	0.992	0.123	0.013	5.914e+00	-0.007	-0.045	0.999	-6.119e-04	-0.123	0.991	0.044	-5.341e-01
-5.008	-2.006	-0.100	0.995	0.098	0.009	6.899e+00	-0.004	-0.051	0.999	-9.065e-04	-0.098	0.994	0.050	-3.623e-01
-4.007	-2.006	-0.100	0.997	0.076	0.006	7.339e+00	-0.002	-0.056	0.998	-1.095e-04	0.076	0.996	0.056	-2.420e-01
-3.006	-2.006	-0.100	0.998	0.059	0.005	7.848e+00	-0.001	-0.061	0.998	-1.892e-06	-0.059	0.996	0.061	-1.597e-01

trial 1 output: 77 of 137

10.000	-1.005	-0.100	0.999	0.046	0.003	8.249e+00	-0.000	-0.068	0.998	7.084e-05	-0.046	0.997	0.068	-1.039e-01
-10.010	-0.005	-0.100	1.000	-0.013	0.002	1.032e+01	0.013	1.000	-0.011	4.856e-02	-0.002	0.012	1.000	2.827e-04
-9.009	-0.005	-0.100	1.000	-0.017	0.003	1.057e+01	0.017	1.000	0.001	6.198e-02	-0.003	-0.001	1.000	2.443e-04
-8.009	-0.005	-0.100	1.000	-0.021	0.003	1.090e+01	0.021	1.000	0.021	7.261e-02	-0.004	-0.021	1.000	-3.313e-05
-7.008	-0.005	-0.100	1.000	-0.025	0.003	1.115e+01	0.025	0.999	0.071	6.654e-02	-0.005	-0.071	0.997	9.658e-04
-6.008	-0.005	-0.100	1.000	-0.027	0.001	1.153e+01	0.023	0.971	0.101	6.606e-02	-0.015	-0.491	0.871	-7.828e-03
-5.008	-0.005	-0.100	1.000	-0.025	-0.004	1.142e+01	0.007	0.117	0.993	-2.931e-03	0.025	0.993	0.117	-1.612e-01
-4.007	-0.005	-0.100	1.000	-0.016	-0.020	1.029e+01	0.021	0.041	0.999	-1.852e-02	0.016	0.999	-0.041	-5.867e-01
-3.006	-0.005	-0.100	0.995	0.046	0.004	6.237e+00	-0.090	-0.076	0.993	3.862e-03	-0.053	0.996	0.071	-1.141e+00
-2.006	-0.005	-0.100	0.989	0.138	0.045	5.423e+00	-0.050	-0.143	0.989	8.051e-03	-0.143	0.980	0.138	-1.367e+00
-1.005	-0.005	-0.100	0.988	0.152	0.010	7.124e+00	-0.065	-0.483	0.873	3.816e-01	-0.137	0.869	0.487	-1.331e+00
-0.005	-0.005	-0.100	0.967	-0.616	-0.464	5.125e+00	0.672	0.148	0.726	5.763e-01	0.378	0.774	-0.588	-4.551e+00
0.995	-0.005	-0.100	0.961	0.277	0.002	7.543e+00	-0.000	-0.007	1.000	-1.240e-02	-0.277	0.961	0.007	-2.186e+00
1.996	-0.005	-0.100	0.991	0.125	-0.046	5.525e+00	-0.012	0.012	0.992	3.396e-03	-0.125	0.992	0.007	-1.715e+00
2.996	-0.005	-0.100	0.993	0.120	0.022	7.706e+00	-0.003	0.012	0.993	-1.887e-03	-0.120	0.993	-0.014	-1.453e+00
3.997	-0.005	-0.100	0.987	0.159	0.028	3.485e+00	-0.025	-0.024	0.999	-1.887e-03	-0.159	0.987	0.028	-1.209e+00
4.997	-0.005	-0.100	0.990	0.137	0.021	4.513e+00	-0.017	-0.034	0.999	-1.713e-03	-0.137	0.990	0.032	-0.372e-01
5.998	-0.005	-0.100	0.994	0.106	0.015	5.512e+00	-0.011	-0.040	0.999	-1.157e-03	-0.106	0.994	0.039	-5.435e-01
6.998	-0.005	-0.100	0.997	0.081	0.010	6.379e+00	-0.007	-0.045	0.999	-7.037e-04	-0.081	0.996	0.045	-3.429e-01
7.999	-0.005	-0.100	0.998	0.061	0.007	7.090e+00	-0.004	-0.052						

trial 1 output: 80 of 137

-8.009	7.998	-0.100	1.000	-0.016	0.002	1.051e+01	0.016	0.997	-0.072	1.241e-01	-0.001	0.072	0.997	-4.348e-04	
-7.008	7.998	-0.100	1.000	-0.029	0.002	1.072e+01	0.029	0.999	-0.045	2.298e-01	-0.001	0.045	0.999	-2.994e-04	
-6.008	7.998	-0.100	1.000	-0.047	0.003	1.094e+01	0.047	0.999	-0.019	4.233e-01	-0.002	0.019	1.000	-1.389e-04	
-5.008	7.998	-0.100	1.000	-0.066	0.004	1.116e+01	0.066	0.998	0.002	7.955e-01	-0.004	-0.002	1.000	-3.291e-04	
-4.007	7.998	-0.100	1.000	-0.070	0.007	1.145e+01	0.070	0.998	0.007	1.543e+00	-0.007	-0.007	1.000	-1.543e-03	
-3.006	7.998	-0.100	1.000	-0.001	0.009	1.223e+01	0.002	0.999	-0.032	2.178e+00	-0.009	0.032	0.999	-3.552e-03	
-2.006	7.998	-0.100	1.000	-0.046	0.002	1.308e+01	0.046	0.994	-0.103	4.845e-01	0.002	0.103	0.995	-5.679e-03	
-1.005	7.998	-0.100	1.000	-0.096	0.002	1.211e+01	0.096	0.995	-0.024	4.348e-01	0.001	0.024	1.000	-2.925e-03	
-0.005	7.998	-0.100	1.000	-0.042	-0.003	1.128e+01	0.042	0.998	0.098	3.733e-01	0.007	0.098	0.995	-8.006e-03	
0.995	7.998	-0.100	1.000	0.014	-0.019	1.036e+01	0.020	-0.032	0.999	-1.061e-02	-0.014	0.999	0.033	-1.160e-00	
1.996	7.998	-0.100	1.000	0.029	-0.074	7.590e+00	0.074	-0.005	0.997	-1.130e-02	-0.028	1.000	0.007	-0.821e+00	
2.996	7.998	-0.100	1.000	-0.055	0.044	3.702e+00	-0.046	-0.026	0.999	6.803e-03	0.054	0.998	0.029	-8.913e-01	
3.997	7.998	-0.100	1.000	-0.118	0.021	5.142e+00	-0.019	0.013	1.000	-4.503e-03	0.118	0.993	-0.011	-9.106e-01	
4.997	7.998	-0.100	1.000	-0.131	0.013	6.040e+00	-0.010	0.028	1.000	-1.419e-03	0.132	0.991	-0.027	-7.577e-01	
5.998	7.998	-0.100	1.000	-0.122	0.009	6.778e+00	-0.005	0.037	0.999	-5.641e-04	0.122	0.992	-0.036	-5.847e-01	
6.998	7.998	-0.100	1.000	-0.095	-0.104	0.007	7.389e+00	-0.003	0.042	0.999	-2.152e-04	0.105	0.994	-0.041	-4.330e-01
7.999	7.998	-0.100	1.000	-0.086	0.005	7.882e+00	-0.001	0.045	0.999	-5.243e-05	0.086	0.995	-0.045	-3.145e-01	
8.999	7.998	-0.100	1.000	-0.070	0.004	8.275e+00	-0.000	0.048	0.999	2.675e-05	0.070	0.996	-0.048	-2.264e-01	
10.000	7.998	-0.100	1.000	-0.057	0.003	8.586e+00	0.000	0.051	0.999	6.514e-05	0.057	0.997	-0.051	-1.625e-01	
-10.010	8.998	-0.100	1.000	-0.002	0.001	1.019e+01	0.002	0.992	-0.125	3.378e-02	-0.001	0.125	0.992	-3.856e-04	
-9.009	8.998	-0.100	1.000	-0.007	0.001	1.030e+01	0.007	0.997	-0.081	7.572e-02	-0.001	0.081	0.997	-3.108e-04	
-8.009	8.998	-0.100	1.000	-0.016	0.001	1.043e+01	0.016	0.998	-0.056	1.493e-01	-0.001	0.056	0.998	-2.527e-04	
-7.008	8.998	-0.100	1.000	-0.027	0.002	1.058e+01	0.027	0.999	-0.038	2.754e-01	-0.001	0.038	0.999	-1.775e-04	
-6.008	8.998	-0.100	1.000	-0.040	0.002	1.074e+01	0.040	0.999	-0.025	4.854e-01	-0.001	0.025	1.000	-1.010e-04	
-5.008	8.998	-0.100	1.000	-0.050	0.003	1.090e+01	0.050	0.999	-0.017	8.176e-01	-0.002	0.017	1.000	-1.114e-04	
-4.007	8.998	-0.100	1.000	-0.044	0.004	1.110e+01	0.044	0.999	-0.018	1.223e+00	-0.003	0.018	1.000	-3.861e-04	
-3.006	8.998	-0.100	1.000	-0.021	0.004	1.145e+01	0.021	0.999	-0.029	1.290e+00	-0.003	0.029	1.000	-1.159e-03	
-2.006	8.998	-0.100	1.000	-0.025	0.002	1.190e+01	0.025	0.999	-0.046	7.591e-01	-0.001	0.046	0.999	-2.123e-03	
-1.005	8.998	-0.100	1.000	-0.041	-0.000	1.181e+01	0.041	0.996	-0.082	2.841e-01	0.004	0.082	0.997	-3.787e-03	
-0.005	8.998	-0.100	1.000	-0.031	-0.006	1.133e+01	0.004	-0.060	0.998	-2.907e-03	0.032	0.998	0.059	-3.344e-01	
0.995	8.998	-0.100	1.000	-0.011	-0.019	1.024e+01	0.019	-0.003	1.000	-1.239e-02	0.011	1.000	0.003	-1.556e+00	
1.996	8.998	-0.100	1.000	-0.015	0.072	7.464e+00	-0.072	-0.006	0.997	-1.115e-02	-0.014	0.999	-0.007	-3.502e+00	
2.996	8.998	-0.100	1.000	-0.057	0.042	3.759e+00	-0.045	-0.046	0.998	8.516e-03	0.055	0.997	0.048	-7.533e-01	
3.997	8.998	-0.100	1.000	-0.133	0.020	5.364e+00	-0.018	0.019	1.000	-4.605e-03	0.134	0.991	-0.017	-6.797e-01	
4.997	8.998	-0.100	1.000	-0.140	0.012	6.408e+00	-0.007	0.036	0.999	-1.164e-03	0.140	0.990	-0.035	-6.069e-01	
5.998	8.998	-0.100	1.000	-0.127	0.008	7.181e+00	-0.003	0.042	0.999	-2.786e-04	0.127	0.991	-0.041	-5.199e-01	
6.998	8.998	-0.100	1.000	-0.096	0.006	7.760e+00	-0.001	0.044	0.999	-1.630e-05	0.096	0.993	-0.044	-2.176e-01	
7.999	8.998	-0.100	1.000	-0.089	0.004	8.197e+00	-0.000	0.045	0.999	6.358e-05	0.089	0.995	-0.045	-3.297e-01	
8.999	8.998	-0.100	1.000	-0.077	0.003	8.532e+00	0.000	0.045	0.999	8.594e-05	0.073	0.996	-0.045	-2.523e-01	
10.000	8.998	-0.100	1.000	-0.059	0.002	8.791e+00	0.000	0.046	0.999	8.897e-05	0.059	0.997	-0.046	-1.909e-01	
-10.010	9.998	-0.100	1.000	-0.002	0.001	1.019e+01	0.002	0.995	-0.098	2.477e-04	-0.001	0.098	0.995	-3.108e-04	
-9.009	9.998	-0.100	1.000	-0.007	0.001	1.026e+01	0.007	0.998	-0.064	8.484e-02	-0.000	0.064	0.998	-9.14e-04	
-8.009	9.998	-0.100	1.000	-0.014	0.001	1.035e+01	0.014	0.999	-0.047	1.614e-01	-0.001	0.047	0.999	-1.556e-04	
-7.008	9.998	-0.100	1.000	-0.023	0.002	1.046e+01	0.023	0.999	-0.035	2.824e-01	-0.001	0.035	0.999	-1.218e-04	
-6.008	9.998	-0.100	1.000	-0.031	0.002	1.057e+01	0.031	0.999	-0.028	4.608e-01	-0.001	0.028	1.000	-1.000e-04	
-5.008	9.998	-0.100	1.000	-0.046	0.002	1.081e+01	0.046	0.999	-0.024	6.881e-01	-0.002	0.024	1.000	-1.359e-03	
-4.007	9.998	-0.100	1.000	-0.033	0.003	1.085e+01	0.033	0.999	-0.025	8.484e-01	-0.002	0.025	1.000	-3.177e-04	
-3.006	9.998	-0.100	1.000	-0.026	0.002	1.110e+01	0.026	0.999	-0.030	8.880e-01	-0.002	0.030	1.000	-7.347e-04	
-2.006	9.998	-0.100	1.000	-0.028	0.001	1.135e+01	0.028	0.999	-0.039	6.219e-01	-0.000	0.039	0.999	-1.442e-03	
-1.005	9.998	-0.100	1.000	-0.037	0.001	1.142e+01	0.037	0.995	-0.039	3.787e-01	0.004	0.039	0.993	-1.122e-03	
-0.005	9.998	-0.100	1.000	-0.041	-0.006	1.115e+01	0.006	-0.009	1.000	-3.685e-03	0.041	0.999	0.008	-8.105e-01	
0.995	9.998	-0.100	1.000	-0.036	-0.019	1.016e+01	0.020	0.009	1.000	-1.177e-02	0.036	0.999	-0.010	-1.609e+00	
1.996	9.998	-0.100	1.000	-0.097	0.001	7.412e+00	-0.071	-0.008	0.997	-9.862e-03	-0.001	1.000	0.008	-3.267e+00	
2.996	9.998	-0.100	1.000	-0.096	-0.003	3.838e+00	-0.050	-0.033	0.994	1.165e-02	0.078	0.992	0.097	-6.218e-01	
3.997	9.998	-0.100	1.000	-0.178	0.018	5.731e+00	-0.013	0.029	0.999	-3.555e-03	0.178	0.994	-0.026	-4.432e-01	
4.997	9.998	-0.100	1.000	-0.163	0.010	6.894e+00	-0.003	0.045	0.999	-7.167e-04	0.163	0.986	-0.044	-5.348e-01	
5.998	9.998	-0.100	1.000	-0.136	0.007	7.655e+00	-0.000	0.046	0.999	3.127e-05	0.137	0.990	-0.046	-4.990e-01	

trial 1 output: 81 of 137

6.998	9.998	-0.100	1.000	-0.111	0.005	8.169e+00	0.000	0.044	0.999	1.459e-04	0.112	0.993	-0.014	-4.299e-01	
7.999	9.998	-0.100	1.000	-0.096	-0.090	0.004	8.532e+00	0.000	0.043	0.999	1.391e-04	0.091	0.995	-0.042	-3.518e-01
8.999	9.998	-0.100	1.000	-0.097	-0.073	0.003	8.799e+00	0.000	0.041	0.999	1.162e-04	0.073	0.996	-0.041	-2.796e-01
10.000	9.998	-0.100	1.000	-0.060	0.002	9.004e+00	0.000	0.041	0.999	9.604e-05	0.060	0.997	-0.040	-2.187e-01	
-10.010	10.999	-0.100	1.000	-0.003	0.001	1.016e+01	0.003	0.997	-0.077	7.313e-02	-0.000	0.077	0.997	-1.535e-04	
-9.009	10.999	-0.100	1.000	-0.007	0.001	1.021e+01	0.007	0.999	-0.053	8.915e-02	-0.000	0.053	0.999	-1.566e-04	
-8.009	10.999	-0.100	1.000	-0.012	0.001	1.028e+01	0.012	0.999	-0.041	1.603e-01	-0.000	0.041	0.999	-1.005e-04	
-7.008	10.999	-0.100	1.000	-0.018	0.001	1.035e+01	0.018	0.999	-0.033	2.637e-01	-0.001	0.033	0.999	-8.773e-05	
-6.008	10.999	-0.100	1.000	-0.023	0.001	1.043e+01	0.023	0.999	-0.029	3.996e-01	-0.001	0.029	1.000	-8.866e-05	
-5.008	10.999	-0.100	1.000	-0.027	0.002	1.051e+01	0.027	0.999	-0.027	5.496e-01	-0.001	0.027	0.999	-4.290e-04	
-4.007	10.999	-0.100	1.000	-0.027	0.002	1.065e+01	0.027	0.999	-0.027	6.621e-01	-0.001	0.027	1.000	-2.552e-04	
-3.006	10.999	-0.100	1.000	-0.027	0.002	1.082e+01	0.027	0.999	-0.030	6.651e-01	-0.001	0.030	1.000	-5.196e-04	
-2.006	10.999	-0.100	1.000	-0.033	0.001	1.100e+01	0.033	0.999	-0.033	5.177e-01	-0.000	0.033	0.999	-9.444e-04	
-1.005	10.999	-0.100	1.000	-0.045	0.001	1.108e+01	0.045	0.998	-0.049	2.055e-01	0.003	0.997	-0.049	-1.480e-03	
-0.005	10.999	-0.100	1.000	-0.058	-0.005	1.091e+01	0.008	0.044	0.999	-1.272e-03	0.068	0.997	-0.049	-4.444e-01	
0.995	10.999	-0.100	1.000	-0.067	-0.018	1.009e+01	0.021	0.042	0.999	-7.962e-03	0.066				

trial 1 output: 84 of 137

4.600	-5.010	-0.100	0.973	0.230	0.007	7.800e+00	-0.001	-0.028	1.000	-5.152e-04	-0.230	0.973	0.027	-1.115e+00
4.800	-5.010	-0.100	0.976	0.216	0.007	7.872e+00	-0.001	-0.030	1.000	-5.152e-04	-0.216	0.976	0.027	-1.115e+00
5.000	-5.010	-0.100	0.979	0.203	0.006	7.938e+00	0.000	-0.031	1.000	-5.152e-04	-0.203	0.979	0.030	-0.994e-01
-5.010	-4.810	-0.100	0.999	0.032	-0.007	1.128e+01	0.006	0.024	1.000	-5.079e-03	-0.032	0.999	-0.024	-4.688e-01
-4.810	-4.610	-0.100	0.999	0.033	-0.009	1.113e+01	0.008	0.021	1.000	-6.268e-03	-0.033	0.999	-0.020	-5.319e-01
-4.610	-4.410	-0.100	0.999	0.033	-0.011	1.093e+01	0.011	0.017	1.000	-7.859e-03	-0.033	0.999	-0.017	-6.030e-01
-4.410	-4.210	-0.100	0.999	0.033	-0.014	1.068e+01	0.014	0.014	1.000	-1.006e-02	-0.033	0.999	-0.014	-6.818e-01
-4.210	-4.010	-0.100	0.999	0.032	-0.018	1.036e+01	0.018	0.011	1.000	-1.322e-02	-0.032	0.999	-0.010	-7.748e-01
-4.010	-3.810	-0.100	0.999	0.031	-0.023	9.974e+00	0.023	0.008	1.000	-1.786e-02	-0.031	0.999	-0.007	-8.809e-01
-3.810	-3.610	-0.100	0.999	0.030	-0.030	9.490e+00	0.030	0.004	1.000	-2.463e-02	-0.030	1.000	-0.003	-1.006e+00
-3.610	-3.410	-0.100	0.999	0.028	-0.040	8.974e+00	0.040	0.000	0.999	-3.283e-02	-0.028	1.000	0.001	-1.158e+00
-3.410	-3.210	-0.100	0.998	0.027	-0.052	8.180e+00	0.052	-0.002	0.999	-2.891e-02	-0.027	1.000	0.004	-1.340e+00
-3.210	-3.010	-0.100	0.998	0.025	-0.052	7.325e+00	0.052	-0.000	0.999	-5.775e-02	-0.025	1.000	0.002	-1.533e+00
-3.010	-2.810	-0.100	1.000	0.012	-0.008	6.442e+00	0.008	0.016	1.000	-3.879e-02	-0.012	1.000	-0.016	-1.666e+00
-2.810	-2.610	-0.100	0.998	0.010	-0.008	5.698e+00	0.010	0.060	0.998	-4.802e-01	0.010	0.998	-0.064	-1.500e+00
-2.610	-2.410	-0.100	0.986	-0.030	-0.165	4.264e+00	0.167	0.088	0.982	-1.481e-01	0.015	0.996	-0.092	-9.519e-01
-2.410	-2.210	-0.100	0.998	0.064	-0.006	3.981e+00	-0.001	0.109	0.994	-1.059e-01	-0.064	0.992	-0.109	-7.597e-01
-2.210	-2.010	-0.100	0.991	0.132	0.035	4.310e+00	-0.042	0.048	0.998	-1.354e-02	-0.130	0.990	-0.053	-7.520e-01
-2.010	-1.810	-0.100	0.985	0.166	0.037	4.697e+00	-0.039	0.010	0.999	-6.991e-03	-0.165	0.986	-0.017	-7.251e-01
-1.810	-1.610	-0.100	0.982	0.184	0.032	5.058e+00	-0.031	-0.009	0.999	-9.016e-03	-0.184	0.983	0.003	-6.684e-01
-1.610	-1.410	-0.100	0.980	0.196	0.028	5.392e+00	-0.024	-0.022	0.999	-7.684e-03	-0.196	0.980	0.017	-6.043e-01
-1.410	-1.210	-0.100	0.978	0.205	0.024	5.705e+00	-0.017	-0.033	0.999	-6.023e-03	-0.206	0.978	0.029	-5.453e-01
-1.210	-1.010	-0.100	0.977	0.212	0.020	5.999e+00	-0.011	-0.044	0.999	-4.536e-03	-0.213	0.976	0.041	-4.964e-01
-1.010	-0.810	-0.100	0.976	0.217	0.017	6.276e+00	-0.005	-0.056	0.998	-3.220e-03	-0.218	0.974	0.054	-4.596e-01
-0.810	-0.610	-0.100	0.975	0.222	0.015	6.546e+00	0.001	-0.069	0.998	-2.085e-03	-0.222	0.973	0.067	-4.357e-01
-0.610	-0.410	-0.100	0.974	0.225	0.012	6.779e+00	0.006	-0.081	0.997	-7.429e-04	-0.226	0.971	0.081	-4.251e-01
-0.410	-0.210	-0.100	0.973	0.229	0.010	7.005e+00	0.012	-0.094	0.996	-5.816e-04	-0.229	0.969	0.094	-4.283e-01
-0.210	-0.010	-0.100	0.973	0.231	0.008	7.212e+00	0.017	-0.105	0.994	-2.052e-03	-0.231	0.967	0.106	-4.456e-01
-0.010	0.190	-0.100	0.972	0.233	0.006	7.399e+00	0.022	-0.115	0.993	-3.732e-03	-0.233	0.966	0.117	-4.775e-01
0.195	0.395	-0.100	0.972	0.235	0.003	7.564e+00	0.026	-0.124	0.992	-5.693e-03	-0.234	0.964	0.126	-5.249e-01
0.395	0.595	-0.100	0.972	0.237	0.001	7.706e+00	0.031	-0.131	0.991	-8.023e-03	-0.234	0.963	0.135	-5.893e-01
0.595	0.795	-0.100	0.972	0.237	-0.002	7.820e+00	0.036	-0.138	0.990	-1.082e-02	-0.234	0.962	0.143	-6.687e-01
0.795	0.995	-0.100	0.972	0.235	-0.005	7.900e+00	0.040	-0.145	0.989	-1.418e-02	-0.232	0.961	0.150	-7.666e-01
0.995	1.195	-0.100	0.973	0.237	-0.009	7.937e+00	0.046	-0.152	0.987	-1.814e-02	-0.228	0.961	0.158	-8.937e-01
1.195	1.395	-0.100	0.974	0.226	-0.015	7.911e+00	0.051	-0.158	0.986	-2.263e-02	-0.220	0.961	0.166	-1.010e+00
1.395	1.595	-0.100	0.976	0.215	-0.021	7.791e+00	0.058	-0.166	0.984	-2.729e-02	-0.208	0.962	0.175	-1.141e+00
1.595	1.795	-0.100	0.980	0.198	-0.030	7.519e+00	0.066	-0.178	0.982	-3.162e-02	-0.189	0.964	0.187	-1.244e+00
1.795	1.995	-0.100	0.985	0.170	-0.038	7.084e+00	0.076	-0.186	0.978	-3.786e-02	-0.158	0.966	0.205	-1.246e+00
1.995	2.195	-0.100	0.993	0.115	-0.030	6.451e+00	0.056	-0.222	0.969	-6.450e-02	-0.093	0.969	0.227	-1.019e+00
2.195	2.395	-0.100	0.998	-0.009	0.060	5.193e+00	-0.061	-0.015	0.998	-4.159e-02	0.008	1.000	0.016	-5.782e-01
2.395	2.595	-0.100	0.989	-0.137	0.059	5.403e+00	0.013	0.471	0.982	-1.423e-01	0.148	0.971	-0.468	-1.232e+00
2.595	2.795	-0.100	0.983	-0.109	-0.039	5.439e+00	0.065	0.248	0.967	-3.129e-01	0.096	0.963	-0.253	-1.827e+00
2.795	2.995	-0.100	0.995	0.095	0.019	4.936e+00	0.042	0.245	0.967	-4.636e-01	0.087	0.965	-0.248	-2.181e+00
2.995	3.195	-0.100	0.963	0.267	0.040	5.077e+00	-0.081	0.146	0.966	-2.531e-02	-0.257	0.953	-0.162	-1.178e+00
3.195	3.395	-0.100	0.943	0.331	0.033	5.624e+00	-0.054	0.055	0.997	-7.218e-03	-0.328	0.942	-0.076	-1.184e+00
3.395	3.595	-0.100	0.941	0.339	0.024	6.146e+00	-0.031	0.015	0.999	-8.853e-03	-0.338	0.941	-0.024	-1.225e+00
3.595	3.795	-0.100	0.945	0.318	0.018	6.372e+00	-0.018	0.001	1.000	-5.694e-03	-0.345	0.941	-0.005	-1.459e+00
3.795	3.995	-0.100	0.951	0.308	0.014	6.849e+00	-0.011	-0.014	1.000	-4.125e-03	-0.326	0.945	-0.002	-1.236e+00
3.995	4.195	-0.100	0.957	0.289	0.012	7.075e+00	-0.006	-0.020	1.000	-2.670e-03	-0.289	0.957	0.017	-1.183e+00
4.195	4.395	-0.100	0.963	0.270	0.010	7.249e+00	-0.004	-0.024	1.000	-1.664e-03	-0.270	0.962	0.023	-1.137e+00
4.395	4.595	-0.100	0.967	0.253	0.009	7.390e+00	-0.002	-0.028	1.000	-9.974e-04	-0.253	0.967	0.026	-1.087e+00
4.595	4.795	-0.100	0.971	0.237	0.008	7.509e+00	-0.001	-0.030	1.000	-5.829e-04	-0.237	0.971	0.029	-1.035e+00
4.795	4.995	-0.100	0.975	0.222	0.007	7.612e+00	-0.000	-0.032	0.999	-2.552e-04	-0.222	0.974	0.031	-9.836e-01
4.995	5.195	-0.100	0.978	0.209	0.007	7.704e+00	-0.000	-0.033	0.999	-5.617e-05	-0.209	0.977	0.033	-9.331e-01
5.195	5.395	-0.100	1.000	0.030	-0.007	1.131e+01	0.006	0.024	1.000	-5.118e-03	-0.030	0.999	-0.024	-4.573e-01
5.395	5.595	-0.100	0.999	0.029	-0.009	1.161e+01	0.008	0.021	1.000	-6.318e-03	-0.030	0.999	-0.021	-5.182e-01
5.595	5.795	-0.100	0.999	0.030	-0.011	1.096e+01	0.011	0.018	1.000	-7.925e-03	-0.031	0.999	-0.017	-5.696e-01

trial 1 output: 85 of 137

-4.409	-4.610	-0.100	0.999	0.030	-0.014	1.071e+01	0.014	0.014	1.000	-1.015e-02	-0.030	0.999	-0.014	-6.649e-01
-4.610	-4.810	-0.100	0.999	0.030	-0.018	1.070e+01	0.018	0.011	1.000	-1.334e-02	-0.030	0.999	-0.011	-7.546e-01
-4.810	-5.010	-0.100	0.999	0.029	-0.023	1.060e+01	0.023	0.008	1.000	-1.803e-02	-0.029	1.000	-0.007	-8.598e-01
-5.010	-5.210	-0.100	0.999	0.027	-0.031	9.521e+00	0.030	0.004	1.000	-2.485e-02	-0.027	1.000	-0.004	-9.861e-01
-5.210	-5.410	-0.100	0.999	0.024	-0.040	8.941e+00	0.040	0.001	0.999	-3.306e-02	-0.024	1.000	-0.000	-1.141e+00
-5.410	-5.610	-0.100	0.998	0.020	-0.051	8.259e+00	0.051	-0.001	0.998	-2.870e-02	-0.020	1.000	0.002	-1.324e+00
-5.610	-5.810	-0.100	0.999	0.015	-0.048	7.481e+00	0.048	0.001	0.999	-5.954e-02	-0.015	1.000	0.000	-1.488e+00
-5.810	-6.010	-0.100	1.000	0.014	-0.004	6.727e+00	-0.004	0.010	1.000	-3.574e-02	-0.014	1.000	0.010	-1.471e+00
-6.010	-6.210	-0.100	0.992	0.001	-0.124	6.084e+00	0.124	0.084	0.989	-4.430e-01	-0.001	0.996	-0.084	-1.158e+00
-6.210	-6.410	-0.100	0.991	-0.012	-0.135	4.850e+00	0.135	0.087	0.987	-1.751e-01	-0.000	0.996	-0.088	-1.012e+00
-6.410	-6.610	-0.100	0.988	0.056	-0.006	4.436e+00	0.002	0.083	0.997	-1.052e-01	0.056	0.995	-0.083	-1.006e+00
-6.610	-6.810	-0.100	0.992	0.119	0.033	4.510e+00	-0.038	0.042	0.994	-1.465e-02	-0.117	0.991	-0.047	-9.198e-01
-6.810	-7.010	-0.100	0.987	0.156	0.036	4.778e+00	-0.039	0.012	0.999	-6.611e-03	-0.155	0.988	-0.017	-8.141e-01
-7.010	-7.210	-0.100	0.984	0.176	0.032	5.099e+00	-0.032	-0.006	0.999	-9.024e-03	-0.176	0.984	0.007	-7.286e-01
-7.210	-7.410	-0.100	0.982	0.188	0.028	5.423e+00	-0.025	-0.018	1.000	-7.822e-03	-0.188	0.982	0.013	-6.550e-01
-7.410	-7.610	-0.100	0.980	0.191	0.024	5.735e+00	-0.019	-0.027	0.999	-6.238e-03	-0.197	0.980	0.023	-5.942e-01
-7.610	-7.810	-0.100	0.978	0.203	0.020	6.031e+00	-0.013	-0.037	0.999	-4.547e-03	-0.203	0.		

trial 1 output: 88 of 137

-0.806	-4.009	-0.100	0.984	0.176	0.014	6.589e+00	-0.010	-0.027	1.000	-3.867e-03	-0.176	0.984	0.025	-6.117e-01
-0.806	-4.009	-0.100	0.984	0.176	0.011	6.541e+00	-0.005	-0.027	1.000	-3.867e-03	-0.176	0.984	0.025	-6.117e-01
-0.405	-4.009	-0.100	0.984	0.176	0.009	7.174e+00	-0.003	-0.031	1.000	-3.280e-03	-0.177	0.984	0.029	-6.256e-01
-0.205	-4.009	-0.100	0.984	0.176	0.006	7.383e+00	0.000	-0.037	0.999	-2.808e-03	-0.177	0.984	0.033	-6.597e-01
-0.000	-4.009	-0.100	0.985	0.175	0.004	7.568e+00	0.003	-0.040	0.999	-2.124e-03	-0.175	0.984	0.037	-7.142e-01
0.195	-4.009	-0.100	0.985	0.170	-0.002	7.723e+00	0.006	-0.041	0.999	-1.910e-03	-0.173	0.984	0.042	-8.438e-01
0.395	-4.009	-0.100	0.985	0.167	-0.005	7.929e+00	0.013	-0.044	0.999	-1.811e-03	-0.170	0.984	0.044	-9.976e-01
0.596	-4.009	-0.100	0.987	0.162	-0.009	7.966e+00	0.016	-0.045	0.999	-2.239e-03	-0.161	0.986	0.047	-1.129e+00
0.796	-4.009	-0.100	0.988	0.155	-0.013	7.947e+00	0.020	-0.045	0.999	-3.065e-03	-0.154	0.987	0.048	-1.277e+00
0.996	-4.009	-0.100	0.991	0.133	-0.025	7.697e+00	0.031	-0.044	0.999	-4.710e-03	-0.145	0.988	0.049	-1.439e+00
1.196	-4.009	-0.100	0.993	0.114	-0.033	7.435e+00	0.038	-0.040	0.998	-7.009e-03	-0.132	0.990	0.048	-1.791e+00
1.396	-4.009	-0.100	0.996	0.082	-0.044	7.063e+00	0.047	-0.028	0.999	-2.188e-02	-0.081	0.993	0.044	-1.977e+00
1.597	-4.009	-0.100	0.998	0.030	-0.058	6.564e+00	0.058	0.006	0.998	-1.907e-02	-0.030	1.000	-0.005	-2.167e+00
1.797	-4.009	-0.100	0.999	0.000	-0.069	6.863e+00	0.072	0.088	0.993	-1.389e-02	0.038	0.995	-0.091	-2.460e+00
2.197	-4.009	-0.100	0.997	-0.044	-0.069	6.863e+00	0.072	0.088	0.993	-1.389e-02	0.038	0.995	-0.091	-2.460e+00
2.397	-4.009	-0.100	0.984	-0.105	-0.143	4.931e+00	0.156	0.06	0.985	-1.259e-01	0.085	0.986	-0.141	-2.108e+00
2.598	-4.009	-0.100	0.978	-0.150	-0.143	3.555e+00	0.156	0.076	0.985	-1.259e-01	0.085	0.986	-0.141	-2.108e+00
2.798	-4.009	-0.100	0.978	-0.150	-0.143	3.555e+00	0.156	0.076	0.985	-1.259e-01	0.085	0.986	-0.141	-2.108e+00
2.998	-4.009	-0.100	0.978	-0.150	-0.143	3.555e+00	0.156	0.076	0.985	-1.259e-01	0.085	0.986	-0.141	-2.108e+00
3.198	-4.009	-0.100	0.962	-0.271	-0.032	4.235e+00	-0.078	0.196	0.977	-1.995e-02	-0.194	0.959	-0.208	-5.262e-01
3.398	-4.009	-0.100	0.958	-0.286	0.018	5.467e+00	-0.013	-0.027	0.996	-4.205e-03	-0.268	0.960	-0.087	-6.302e-01
3.598	-4.009	-0.100	0.956	-0.292	0.021	5.122e+00	-0.021	-0.002	1.000	-5.269e-03	-0.292	0.957	-0.032	-7.031e-01
3.798	-4.009	-0.100	0.961	-0.276	0.015	5.768e+00	-0.005	-0.027	0.999	-6.463e-03	-0.290	0.956	-0.004	-7.434e-01
3.998	-4.009	-0.100	0.964	-0.264	0.013	6.032e+00	-0.005	-0.033	0.999	-2.585e-03	-0.276	0.961	0.023	-7.754e-01
4.198	-4.009	-0.100	0.968	-0.251	0.012	6.265e+00	-0.003	-0.037	0.999	-1.674e-03	-0.264	0.964	0.030	-7.771e-01
4.398	-4.009	-0.100	0.971	-0.238	0.011	6.474e+00	-0.001	-0.040	0.999	-5.534e-04	-0.238	0.970	0.038	-7.717e-01
4.598	-4.009	-0.100	0.974	-0.224	0.010	6.646e+00	0.000	-0.043	0.999	-1.017e-03	-0.251	0.967	0.035	-7.717e-01
4.798	-4.009	-0.100	0.977	-0.213	0.009	6.850e+00	0.000	-0.043	0.999	-2.327e-04	-0.226	0.973	0.041	-7.451e-01
4.998	-4.009	-0.100	0.980	-0.200	-0.007	7.141e+01	0.006	0.024	1.000	-1.484e-05	-0.214	0.976	0.042	-7.260e-01
5.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
5.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
5.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
5.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
5.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
6.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
6.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
6.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
6.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
6.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
7.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
7.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
7.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
7.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
7.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
8.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
8.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
8.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
8.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
8.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
9.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
9.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
9.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
9.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
9.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
10.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
10.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
10.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
10.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
10.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
11.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
11.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
11.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
11.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
11.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
12.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
12.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
12.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
12.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
12.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
13.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
13.300	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
13.500	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
13.700	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
13.900	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
14.100	-3.809	-0.100	1.000	0.020	-0.009	1.126e+01	0.008	0.021	1.000	-0.020	-0.020	1.000	-0.024	-4.210e-01
14.300	-3.809													

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3.999	-3.208	-0.100	0.973	0.230	0.017	5.007e+00	-0.011	-0.031	0.999	-2.216e-03	-0.230	0.973	0.028	-6.490e-01
4.199	-3.208	-0.100	0.973	0.226	0.016	5.266e+00	-0.008	-0.037	0.999	-1.514e-03	-0.226	0.973	0.035	-6.491e-01
4.399	-3.208	-0.100	0.973	0.213	0.013	5.738e+00	-0.004	-0.045	0.999	-9.802e-04	-0.220	0.975	0.040	-6.464e-01
4.600	-3.208	-0.100	0.977	0.205	0.012	5.951e+00	-0.003	-0.047	0.999	-2.964e-04	-0.213	0.976	0.043	-6.408e-01
4.800	-3.208	-0.100	0.980	0.197	0.011	6.150e+00	-0.002	-0.049	0.999	-9.152e-05	-0.197	0.979	0.048	-6.202e-01
5.000	-3.208	-0.100	1.000	0.010	-0.009	1.135e+01	0.006	0.024	1.000	-5.246e-03	-0.009	1.000	-0.024	-4.011e-01
-4.810	-3.008	-0.100	1.000	0.010	-0.009	1.135e+01	0.006	0.024	1.000	-5.246e-03	-0.010	1.000	-0.021	-4.532e-01
-4.610	-3.008	-0.100	1.000	0.011	-0.011	1.091e+01	0.014	0.014	1.000	-1.066e-02	-0.013	1.000	-0.017	-5.122e-01
-4.409	-3.008	-0.100	1.000	0.012	-0.014	1.059e+01	0.018	0.011	1.000	-1.413e-02	-0.013	1.000	-0.014	-5.592e-01
-4.209	-3.008	-0.100	1.000	0.013	-0.018	1.039e+01	0.024	0.007	1.000	-1.826e-02	-0.014	1.000	-0.007	-7.444e-01
-4.009	-3.008	-0.100	1.000	0.014	-0.021	1.026e+01	0.031	0.001	1.000	-2.273e-02	-0.014	1.000	-0.003	-8.463e-01
-3.809	-3.008	-0.100	1.000	0.015	-0.025	1.019e+01	0.038	0.000	1.000	-2.748e-02	-0.014	1.000	-0.001	-9.482e-01
-3.609	-3.008	-0.100	1.000	0.016	-0.029	1.016e+01	0.045	0.000	1.000	-3.241e-02	-0.014	1.000	0.000	-1.042e+00
-3.408	-3.008	-0.100	1.000	0.017	-0.033	1.016e+01	0.052	0.000	1.000	-3.748e-02	-0.014	1.000	0.000	-1.142e+00
-3.208	-3.008	-0.100	1.000	0.018	-0.037	1.018e+01	0.059	0.000	1.000	-4.266e-02	-0.014	1.000	0.000	-1.242e+00
-3.008	-3.008	-0.100	1.000	0.019	-0.041	1.021e+01	0.066	0.000	1.000	-4.794e-02	-0.014	1.000	0.000	-1.342e+00
-2.808	-3.008	-0.100	1.000	0.020	-0.045	1.024e+01	0.073	0.000	1.000	-5.332e-02	-0.014	1.000	0.000	-1.442e+00
-2.608	-3.008	-0.100	1.000	0.021	-0.049	1.027e+01	0.080	0.000	1.000	-5.880e-02	-0.014	1.000	0.000	-1.542e+00
-2.407	-3.008	-0.100	1.000	0.022	-0.053	1.030e+01	0.087	0.000	1.000	-6.438e-02	-0.014	1.000	0.000	-1.642e+00
-2.207	-3.008	-0.100	1.000	0.023	-0.057	1.033e+01	0.094	0.000	1.000	-6.996e-02	-0.014	1.000	0.000	-1.742e+00
-2.007	-3.008	-0.100	1.000	0.024	-0.061	1.036e+01	0.101	0.000	1.000	-7.554e-02	-0.014	1.000	0.000	-1.842e+00
-1.807	-3.008	-0.100	1.000	0.025	-0.065	1.039e+01	0.108	0.000	1.000	-8.112e-02	-0.014	1.000	0.000	-1.942e+00
-1.607	-3.008	-0.100	1.000	0.026	-0.069	1.042e+01	0.115	0.000	1.000	-8.670e-02	-0.014	1.000	0.000	-2.042e+00
-1.406	-3.008	-0.100	1.000	0.027	-0.073	1.045e+01	0.122	0.000	1.000	-9.228e-02	-0.014	1.000	0.000	-2.142e+00
-1.206	-3.008	-0.100	1.000	0.028	-0.077	1.048e+01	0.129	0.000	1.000	-9.786e-02	-0.014	1.000	0.000	-2.242e+00
-1.006	-3.008	-0.100	1.000	0.029	-0.081	1.051e+01	0.136	0.000	1.000	-1.034e-01	-0.014	1.000	0.000	-2.342e+00
-0.806	-3.008	-0.100	1.000	0.030	-0.085	1.054e+01	0.143	0.000	1.000	-1.092e-01	-0.014	1.000	0.000	-2.442e+00
-0.606	-3.008	-0.100	1.000	0.031	-0.089	1.057e+01	0.150	0.000	1.000	-1.150e-01	-0.014	1.000	0.000	-2.542e+00
-0.405	-3.008	-0.100	1.000	0.032	-0.093	1.060e+01	0.157	0.000	1.000	-1.208e-01	-0.014	1.000	0.000	-2.642e+00
-0.205	-3.008	-0.100	1.000	0.033	-0.097	1.063e+01	0.164	0.000	1.000	-1.266e-01	-0.014	1.000	0.000	-2.742e+00
-0.005	-3.008	-0.100	1.000	0.034	-0.101	1.066e+01	0.171	0.000	1.000	-1.324e-01	-0.014	1.000	0.000	-2.842e+00
0.195	-3.008	-0.100	1.000	0.035	-0.105	1.069e+01	0.178	0.000	1.000	-1.382e-01	-0.014	1.000	0.000	-2.942e+00
0.395	-3.008	-0.100	1.000	0.036	-0.109	1.072e+01	0.185	0.000	1.000	-1.440e-01	-0.014	1.000	0.000	-3.042e+00
0.596	-3.008	-0.100	1.000	0.037	-0.113	1.075e+01	0.192	0.000	1.000	-1.498e-01	-0.014	1.000	0.000	-3.142e+00
0.796	-3.008	-0.100	1.000	0.038	-0.117	1.078e+01	0.199	0.000	1.000	-1.556e-01	-0.014	1.000	0.000	-3.242e+00
0.996	-3.008	-0.100	1.000	0.039	-0.121	1.081e+01	0.206	0.000	1.000	-1.614e-01	-0.014	1.000	0.000	-3.342e+00
1.197	-3.008	-0.100	1.000	0.040	-0.125	1.084e+01	0.213	0.000	1.000	-1.672e-01	-0.014	1.000	0.000	-3.442e+00
1.397	-3.008	-0.100	1.000	0.041	-0.129	1.087e+01	0.220	0.000	1.000	-1.730e-01	-0.014	1.000	0.000	-3.542e+00
1.597	-3.008	-0.100	1.000	0.042	-0.133	1.090e+01	0.227	0.000	1.000	-1.788e-01	-0.014	1.000	0.000	-3.642e+00
1.797	-3.008	-0.100	1.000	0.043	-0.137	1.093e+01	0.234	0.000	1.000	-1.846e-01	-0.014	1.000	0.000	-3.742e+00
1.997	-3.008	-0.100	1.000	0.044	-0.141	1.096e+01	0.241	0.000	1.000	-1.904e-01	-0.014	1.000	0.000	-3.842e+00
2.197	-3.008	-0.100	1.000	0.045	-0.145	1.099e+01	0.248	0.000	1.000	-1.962e-01	-0.014	1.000	0.000	-3.942e+00
2.397	-3.008	-0.100	1.000	0.046	-0.149	1.102e+01	0.255	0.000	1.000	-2.020e-01	-0.014	1.000	0.000	-4.042e+00
2.597	-3.008	-0.100	1.000	0.047	-0.153	1.105e+01	0.262	0.000	1.000	-2.078e-01	-0.014	1.000	0.000	-4.142e+00
2.797	-3.008	-0.100	1.000	0.048	-0.157	1.108e+01	0.269	0.000	1.000	-2.136e-01	-0.014	1.000	0.000	-4.242e+00
2.997	-3.008	-0.100	1.000	0.049	-0.161	1.111e+01	0.276	0.000	1.000	-2.194e-01	-0.014	1.000	0.000	-4.342e+00
3.197	-3.008	-0.100	1.000	0.050	-0.165	1.114e+01	0.283	0.000	1.000	-2.252e-01	-0.014	1.000	0.000	-4.442e+00
3.397	-3.008	-0.100	1.000	0.051	-0.169	1.117e+01	0.290	0.000	1.000	-2.310e-01	-0.014	1.000	0.000	-4.542e+00
3.597	-3.008	-0.100	1.000	0.052	-0.173	1.120e+01	0.297	0.000	1.000	-2.368e-01	-0.014	1.000	0.000	-4.642e+00
3.797	-3.008	-0.100	1.000	0.053	-0.177	1.123e+01	0.304	0.000	1.000	-2.426e-01	-0.014	1.000	0.000	-4.742e+00
3.997	-3.008	-0.100	1.000	0.054	-0.181	1.126e+01	0.311	0.000	1.000	-2.484e-01	-0.014	1.000	0.000	-4.842e+00
4.197	-3.008	-0.100	1.000	0.055	-0.185	1.129e+01	0.318	0.000	1.000	-2.542e-01	-0.014	1.000	0.000	-4.942e+00
4.397	-3.008	-0.100	1.000	0.056	-0.189	1.132e+01	0.325	0.000	1.000	-2.600e-01	-0.014	1.000	0.000	-5.042e+00
4.597	-3.008	-0.100	1.000	0.057	-0.193	1.135e+01	0.332	0.000	1.000	-2.658e-01	-0.014	1.000	0.000	-5.142e+00
4.797	-3.008	-0.100	1.000	0.058	-0.197	1.138e+01	0.339	0.000	1.000	-2.716e-01	-0.014	1.000	0.000	-5.242e+00
4.997	-3.008	-0.100	1.000	0.059	-0.201	1.141e+01	0.346	0.000	1.000	-2.774e-01	-0.014	1.000	0.000	-5.342e+00
5.197	-3.008	-0.100	1.000	0.060	-0.205	1.144e+01	0.353	0.000	1.000	-2.832e-01	-0.014	1.000	0.000	-5.442e+00
5.397	-3.008	-0.100	1.000	0.061	-0.209	1.147e+01	0.360	0.000	1.000	-2.890e-01	-0.014	1.000	0.000	-5.542e+00
5.597	-3.008	-0.100	1.000	0.062	-0.213	1.150e+01	0.367	0.000	1.000	-2.948e-01	-0.014	1.000	0.000	-5.642e+00
5.797	-3.008	-0.100	1.000	0.063	-0.217	1.153e+01	0.374	0.000	1.000	-3.006e-01	-0.014	1.000	0.000	-5.742e+00
5.997	-3.008	-0.100	1.000	0.064	-0.221	1.156e+01	0.381	0.000	1.000	-3.064e-01	-0.014	1.000	0.000	-5.842e+00
6.197	-3.008	-0.100	1.000	0.065	-0.225	1.159e+01	0.388	0.000	1.000	-3.122e-01	-0.014	1.000	0.000	-5.942e+00
6.397	-3.008	-0.100	1.000	0.066	-0.229	1.162e+01	0.395	0.000	1.000	-3.180e-01	-0.014	1.000	0.000	-6.042e+00
6.597	-3.008	-0.100	1.000	0.067	-0.233	1.165e+01	0.402	0.000	1.000	-3.238e-01	-0.014	1.000	0.000	-6.142e+00
6.797	-3.008	-0.100	1.000	0.068	-0.237	1.168e+01	0.409	0.000	1.000	-3.296e-01	-0.014	1.000	0.000	-6.242e+00
6.997	-3.008	-0.100	1.000	0.069	-0.241	1.171e+01	0.416	0.000	1.000	-3.354e-01	-0.014	1.000	0.000	-6.342e+00
7.197	-3.008	-0.100	1.000	0.070	-0.245	1.174e+01	0.423	0.000	1.000	-3.412e-01	-0.014	1.000	0.000	-6.442e+00
7.397	-3.008	-0.100	1.000	0.071	-0.249	1.177e+01	0.430	0.000	1.000	-3.470e-01	-0.014	1.000	0.000	-6.542e+00
7.597	-3.008	-0.100	1.000	0.072	-0.253	1.180e+01	0.437	0.000	1.000	-3.528e-01	-0.014	1.000	0.000	-6.642e+00
7.797	-3.008	-0.100	1.000	0.073	-0.257	1.183e+01	0.444	0.000	1.000	-3.586e-01	-0.014	1.000	0.000	-6.742e+00
7.997	-3.008	-0.100	1.000	0.074	-0.261	1.186e+01	0.451	0.000	1.000	-3.644e-01	-0.014	1.000	0.000	-6.842e+00
8.197	-3.008	-0.100	1.000	0.075	-0.265	1.189e+01	0.458	0.000	1.000	-3.702e-01	-0.014	1.000	0.000	-6.942e+00
8.397	-3.008	-0.100	1.000	0.076	-0.269	1.192e+01	0.465	0.000	1.000	-3.760e-01	-0.014	1.000	0.000	-7.042e+00
8.597	-3.008	-0.100	1.000	0.077	-0.273	1.195e+01	0.472	0.000	1.000	-3.818e-01	-0.014	1.000	0.000	-7.142e+00
8.797	-3.008													

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-1.406	-2.208	-0.100	0.997	0.078	0.028	6.142e+00	-0.039	0.139	0.989	-3.048e-03	-0.073	0.987	-0.142	-2.597e-01
-1.205	-2.208	-0.100	0.997	0.070	0.024	6.495e+00	-0.039	0.220	0.975	-2.423e-03	-0.063	0.973	-0.223	-1.798e-01
-1.005	-2.208	-0.100	0.998	0.061	0.020	6.835e+00	-0.038	0.308	0.951	-8.691e-03	-0.052	0.949	-0.309	-1.377e-01
-0.806	-2.208	-0.100	0.999	0.052	0.016	7.159e+00	-0.033	0.394	0.944	-1.177e-02	-0.044	0.943	-0.331	-1.353e-01
-0.606	-2.208	-0.100	0.999	0.044	0.013	7.464e+00	-0.024	0.266	0.964	9.474e-03	-0.039	0.963	-0.266	-1.755e-01
-0.405	-2.208	-0.100	0.999	0.037	0.010	7.746e+00	-0.016	0.178	0.984	5.316e-03	-0.034	0.983	-0.178	-2.633e-01
-0.205	-2.208	-0.100	0.999	0.031	0.006	8.002e+00	-0.010	0.111	0.994	1.951e-03	-0.031	0.993	-0.112	-3.988e-01
-0.005	-2.208	-0.100	1.000	0.029	0.003	8.217e+00	-0.005	0.069	0.998	-3.965e-04	-0.029	0.997	-0.069	-5.744e-01
0.195	-2.208	-0.100	1.000	0.028	0.000	8.382e+00	-0.001	0.042	0.999	-2.099e-03	-0.028	0.999	-0.042	-7.779e-01
0.395	-2.208	-0.100	1.000	0.030	-0.003	8.497e+00	0.002	0.025	1.000	-3.468e-03	-0.030	0.999	-0.025	-9.960e-01
0.596	-2.208	-0.100	0.999	0.032	-0.006	8.528e+00	0.006	0.014	1.000	-4.718e-03	-0.032	0.999	-0.014	-1.217e+00
0.796	-2.208	-0.100	0.999	0.035	-0.010	8.487e+00	0.009	0.006	1.000	-6.028e-03	-0.035	0.999	-0.006	-1.631e+00
0.996	-2.208	-0.100	0.999	0.037	-0.013	8.374e+00	0.013	-0.000	1.000	-7.594e-03	-0.037	0.999	-0.013	-1.636e+00
1.196	-2.208	-0.100	0.999	0.038	-0.017	8.182e+00	0.018	-0.005	1.000	-9.693e-03	-0.038	0.999	-0.005	-1.832e+00
1.396	-2.208	-0.100	0.999	0.038	-0.023	7.911e+00	0.023	-0.008	1.000	-1.277e-02	-0.038	0.999	-0.008	-2.027e+00
1.597	-2.208	-0.100	0.999	0.037	-0.031	7.563e+00	0.031	-0.012	0.999	-1.756e-02	-0.037	0.999	-0.012	-2.236e+00
1.797	-2.208	-0.100	0.998	0.034	-0.043	7.146e+00	0.044	-0.015	0.999	-2.445e-02	-0.034	0.999	-0.015	-2.494e+00
1.997	-2.208	-0.100	0.998	0.028	-0.064	6.669e+00	0.065	-0.018	0.998	-2.807e-02	-0.027	0.999	-0.018	-2.845e+00
2.197	-2.208	-0.100	0.995	0.000	-0.102	6.085e+00	0.102	-0.010	0.995	-5.074e-02	0.001	1.000	0.010	-3.235e+00
2.397	-2.208	-0.100	0.973	-0.093	-0.213	5.051e+00	0.215	-0.006	0.977	-3.510e-01	0.078	0.985	-0.157	-9.577e-01
2.598	-2.208	-0.100	0.978	-0.106	-0.180	3.005e+00	0.194	0.139	0.971	1.043e-01	0.078	0.985	-0.157	-9.577e-01
2.798	-2.208	-0.100	0.996	0.091	0.006	2.905e+00	-0.018	0.132	0.991	5.075e-02	-0.089	0.987	-0.134	-6.518e-01
2.998	-2.208	-0.100	0.991	0.122	0.030	3.263e+00	-0.035	0.040	0.999	1.304e-03	-0.131	0.990	-0.045	-7.614e-01
3.198	-2.208	-0.100	0.989	0.144	0.029	3.545e+00	-0.031	0.013	0.999	-4.429e-03	-0.144	0.989	-0.017	-7.987e-01
3.398	-2.208	-0.100	0.988	0.155	0.026	3.792e+00	-0.026	-0.001	0.999	-4.219e-03	-0.155	0.988	-0.003	-7.981e-01
3.598	-2.208	-0.100	0.986	0.164	0.024	4.028e+00	-0.022	-0.012	1.000	-3.397e-03	-0.165	0.986	-0.008	-7.854e-01
3.799	-2.208	-0.100	0.985	0.171	0.022	4.260e+00	-0.018	-0.020	1.000	-2.659e-03	-0.172	0.985	-0.017	-7.691e-01
3.999	-2.208	-0.100	0.984	0.176	0.020	4.488e+00	-0.015	-0.027	1.000	-2.066e-03	-0.176	0.984	-0.024	-7.511e-01
4.199	-2.208	-0.100	0.984	0.178	0.019	4.713e+00	-0.013	-0.033	0.999	-1.559e-03	-0.178	0.984	-0.030	-7.317e-01
4.399	-2.208	-0.100	0.984	0.177	0.017	4.933e+00	-0.011	-0.037	0.999	-1.224e-03	-0.178	0.983	-0.037	-7.108e-01
4.600	-2.208	-0.100	0.984	0.176	0.016	5.147e+00	-0.009	-0.040	0.999	-9.266e-04	-0.176	0.984	-0.038	-6.883e-01
4.800	-2.208	-0.100	0.985	0.173	0.015	5.354e+00	-0.008	-0.043	0.999	-6.925e-04	-0.173	0.984	-0.041	-6.645e-01
5.000	-2.208	-0.100	0.986	0.169	0.014	5.554e+00	-0.007	-0.045	0.999	-5.079e-04	-0.169	0.985	-0.044	-6.396e-01
-5.010	-2.007	-0.100	1.000	-0.005	-0.006	1.155e+01	0.006	0.005	0.999	-4.899e-03	0.005	0.999	-0.034	-3.736e-01
-4.810	-2.007	-0.100	1.000	-0.004	-0.008	1.141e+01	0.008	0.030	1.000	-6.197e-03	0.004	1.000	-0.030	-4.288e-01
-4.610	-2.007	-0.100	1.000	-0.003	-0.011	1.123e+01	0.011	0.027	1.000	-7.968e-03	0.002	1.000	-0.027	-4.911e-01
-4.409	-2.007	-0.100	1.000	-0.001	-0.014	1.099e+01	0.014	0.023	1.000	-1.049e-02	0.001	1.000	-0.023	-5.617e-01
-4.209	-2.007	-0.100	1.000	0.000	-0.018	1.068e+01	0.018	0.019	1.000	-1.409e-02	-0.001	1.000	-0.019	-6.421e-01
-4.009	-2.007	-0.100	1.000	0.002	-0.024	1.028e+01	0.024	0.015	1.000	-1.944e-02	-0.002	1.000	-0.015	-7.377e-01
-3.809	-2.007	-0.100	1.000	0.003	-0.031	9.772e+00	0.031	0.011	0.999	-2.727e-02	-0.004	1.000	-0.010	-8.370e-01
-3.609	-2.007	-0.100	0.999	0.005	-0.042	9.121e+00	0.042	0.006	0.999	-3.651e-02	-0.006	1.000	-0.006	-9.483e-01
-3.409	-2.007	-0.100	0.999	0.010	-0.053	8.354e+00	0.053	0.001	0.999	-2.965e-02	-0.008	1.000	-0.000	-1.052e+00
-3.208	-2.007	-0.100	0.999	0.014	-0.045	7.235e+00	0.045	-0.011	0.999	-8.392e-02	0.013	1.000	0.011	-1.117e+00
-3.008	-2.007	-0.100	0.999	0.025	0.033	6.200e+00	-0.032	-0.040	0.999	5.821e-02	-0.026	0.999	0.040	-1.256e+00
-2.808	-2.007	-0.100	0.990	0.007	-0.140	5.727e+00	0.139	0.038	0.990	-5.758e-01	-0.012	0.999	-0.038	-1.626e+00
-2.608	-2.007	-0.100	0.984	0.022	-0.175	4.367e+00	0.171	0.119	0.978	1.693e-01	-0.042	0.993	-0.114	-9.774e-01
-2.407	-2.007	-0.100	0.997	0.078	-0.003	3.700e+00	-0.004	0.022	0.997	1.217e-01	-0.079	0.993	-0.082	-8.193e-01
-2.207	-2.007	-0.100	0.995	0.087	0.042	4.608e+00	-0.047	0.056	0.997	1.610e-02	-0.084	0.995	-0.060	-7.161e-01
-2.007	-2.007	-0.100	0.995	0.086	0.045	5.008e+00	-0.050	0.059	0.997	-7.667e-03	-0.083	0.995	-0.050	-5.653e-01
-1.807	-2.007	-0.100	0.996	0.082	0.040	5.414e+00	-0.047	0.085	0.995	-9.230e-03	-0.078	0.993	-0.088	-4.050e-01
-1.607	-2.007	-0.100	0.996	0.076	0.039	5.809e+00	-0.045	0.148	0.988	-4.972e-03	-0.070	0.986	-0.151	-2.567e-01
-1.406	-2.007	-0.100	0.997	0.069	0.029	6.189e+00	-0.049	0.313	0.988	-6.189e-03	-0.058	0.986	-0.313	-4.021e-01
-1.206	-2.007	-0.100	0.998	0.059	0.025	6.555e+00	-0.057	0.530	0.988	-3.415e-02	-0.056	0.947	-0.531	-1.352e-01
-1.006	-2.007	-0.100	0.999	0.048	0.021	6.907e+00	-0.052	0.830	0.988	-2.478e-02	-0.049	0.988	-0.830	-4.126e-02
-0.806	-2.007	-0.100	0.999	0.037	0.017	7.246e+00	-0.040	0.842	0.988	-6.309e-02	-0.040	0.988	-0.842	-4.172e-02
-0.606	-2.007	-0.100	1.000	0.027	0.013	7.570e+00	-0.029	0.730	0.988	-6.309e-02	-0.040	0.988	-0.730	-4.172e-02
-0.405	-2.007	-0.100	1.000	0.018	0.010	7.874e+00	-0.017	0.435	0.900	-2.765e-02	-0.012	0.900	-0.435	-1.377e-01

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-0.205	-2.007	-0.100	1.000	0.013	0.006	8.148e+00	-0.009	0.211	0.977	1.049e-02	-0.011	0.977	-0.211	-2.808e-01
-0.005	-2.007	-0.100	1.000	0.011	0.003	8.381e+00	-0.004	0.063	0.994	3.445e-03	-0.010	0.994	-0.111	-4.866e-01
0.195	-2.007	-0.100	1.000	0.012	-0.000	8.557e+00	-0.000	0.063	0.998	-1.749e-04	-0.012	0.998	-0.063	-7.251e-01
0.395	-2.007	-0.100	1.000	0.016	-0.003	8.663e+00	0.003	0.036	0.999	-2.467e-03	-0.016	0.999	-0.036	-9.779e-01
0.596	-2.007	-0.100	1.000	0.021	-0.006	8.691e+00	0.006	0.020	1.000	-4.207e-03	-0.021	1.000	-0.020	-1.225e+00
0.796	-2.007	-0.100	1.000	0.027	-0.010	8.637e+00	0.009	0.010	1.000	-5.786e-03	-0.027	1.000	-0.009	-1.457e+00
0.996	-2.007	-0.100	0.999	0.031	-0.013	8.501e+00	0.013	0.003	1.000	-7.497e-03	-0.031	1.000	-0.002	-1.669e+00
1.196	-2.007	-0.100	0.999	0.034	-0.017	8.282e+00	0.017	-0.002	1.000	-9.671e-03	-0.034	0.999	-0.002	-1.866e+00
1.396	-2.007	-0.100	0.999	0.034	-0.023	7.984e+00	0.023	-0.005	1.000	-1.281e-02	-0.034	0.999	-0.005	-2.054e+00
1.597	-2.007	-0.100	0.999	0.031	-0.030	7.608e+00	0.030	-0.006	1.000	-1.770e-02	-0.030	1.000	-0.007	-2.249e+00
1.797	-2.007	-0.100	0.999	0.021	-0.041	7.151e+00	0.041	-0.004	0.999	-2.471e-02	-0.021	1.000	-0.005	-2.467e+00
1.997	-2.007	-0.100	0.999	0.002	-0.056	6.615e+00	0.056	0.007	0.998	-2.680e-02	-0.002	0.999	-0.007	-2.700e+00
2.197	-2.007	-0.100	0.997	-0.025	-0.073	5.875e+00	0.074	0.033	0.997	-4.192e-02	0.023	0.999	-0.033	-2.801e+00
2.397	-2.007	-0.100	0.987	-0.044	-0.153	4.792e+00	0.154	0.041	0.987	-2.518e-01	0.037	0.998	-0.047	-3.339e+00
2.598	-2.007	-0.100	0.990	-0.060	-0.123	3.329e+00	0.124	0.026	0.992	1.292e-01	0.045	0.998	-0.032	-1.362e+00
2.798	-2.007	-0.100	1.000	0.020	0.006	3.009e+00	-0.006	0.065	0.996	4.543e-02	0.019	0.998	-0.065	-8.769e-01
2.998	-2.007	-0.100	0.996	0.086	0.030	3.215e+00	-0.034	0.040	0.999	-2.029e-03	-0.086	0.		

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3.398	-1.407	-0.100	0.991	0.131	0.026	3.644e+00	-0.026	-0.003	1.000	-3.107e-03	-0.131	0.991	-0.001	-1.031e+00	
3.599	-1.407	-0.100	0.990	0.142	0.025	3.812e+00	-0.025	-0.011	1.000	-2.725e-03	-0.142	0.990	-0.008	-9.977e-01	
3.799	-1.407	-0.100	0.988	0.150	0.023	3.986e+00	-0.023	-0.018	1.000	-2.316e-03	-0.150	0.988	-0.015	-9.535e-01	
3.999	-1.407	-0.100	0.988	0.155	0.022	4.129e+00	-0.019	-0.024	1.000	-1.969e-03	-0.155	0.988	-0.020	-9.276e-01	
4.199	-1.407	-0.100	0.987	0.157	0.021	4.390e+00	-0.017	-0.028	0.999	-1.684e-03	-0.157	0.987	-0.025	-8.879e-01	
4.399	-1.407	-0.100	0.987	0.158	0.020	4.590e+00	-0.015	-0.032	0.999	-1.446e-03	-0.158	0.987	-0.029	-8.470e-01	
4.600	-1.407	-0.100	0.987	0.157	0.018	4.789e+00	-0.011	-0.038	0.999	-1.243e-03	-0.157	0.987	-0.032	-8.049e-01	
4.800	-1.407	-0.100	0.988	0.155	0.017	4.986e+00	-0.012	-0.038	0.999	-1.065e-03	-0.155	0.987	-0.037	-7.622e-01	
5.000	-1.407	-0.100	0.988	0.152	0.016	5.181e+00	-0.010	-0.040	0.999	-9.180e-04	-0.153	0.988	-0.038	-7.199e-01	
-5.010	-1.207	-0.100	1.000	-0.017	-0.006	1.153e+01	0.006	0.055	0.998	-4.209e-03	0.016	0.998	-0.055	-3.147e-01	
-4.810	-1.207	-0.100	1.000	-0.016	-0.008	1.111e+01	0.008	0.050	0.999	-5.501e-03	0.015	0.999	-0.050	-3.726e-01	
-4.610	-1.207	-0.100	1.000	-0.014	-0.010	1.126e+01	0.011	0.044	0.999	-7.274e-03	0.014	0.999	-0.044	-4.393e-01	
-4.409	-1.207	-0.100	1.000	-0.013	-0.013	1.101e+01	0.014	0.039	0.999	-9.786e-03	0.012	0.999	-0.039	-5.159e-01	
-4.209	-1.207	-0.100	1.000	-0.011	-0.017	1.071e+01	0.018	0.034	0.999	-1.344e-02	0.010	0.999	-0.034	-6.041e-01	
-4.009	-1.207	-0.100	1.000	-0.009	-0.023	1.032e+01	0.023	0.029	0.999	-1.885e-02	0.008	1.000	-0.030	-7.053e-01	
-3.809	-1.207	-0.100	1.000	-0.008	-0.031	9.870e+00	0.031	0.026	0.999	-2.670e-02	0.007	1.000	-0.026	-8.199e-01	
-3.609	-1.207	-0.100	0.999	-0.007	-0.041	9.176e+00	0.041	0.024	0.999	-3.570e-02	0.009	0.999	-0.024	-9.446e-01	
-3.409	-1.207	-0.100	0.999	-0.011	-0.053	8.353e+00	0.053	0.031	0.998	-2.685e-02	0.009	0.999	-0.032	-1.005e+00	
-3.208	-1.207	-0.100	0.999	-0.026	-0.043	7.302e+00	0.045	0.067	0.997	9.949e-02	0.023	0.997	-0.068	-1.148e+00	
-3.008	-1.207	-0.100	0.996	-0.063	0.056	6.115e+00	-0.036	0.282	0.959	1.499e+01	0.076	0.957	-0.279	-1.335e+00	
-2.808	-1.207	-0.100	0.992	0.112	0.205	3.837e+00	-0.234	0.517	0.824	-1.781e+00	0.014	0.849	-0.529	-4.775e+00	
-2.608	-1.207	-0.100	0.983	0.112	-0.149	4.957e+00	0.153	-0.028	0.988	1.837e-01	-0.106	0.993	0.045	-5.928e-01	
-2.407	-1.207	-0.100	0.995	0.085	-0.001	4.656e+00	-0.003	0.041	0.999	1.194e-01	-0.085	0.996	-0.041	-7.003e-01	
-2.207	-1.207	-0.100	0.995	0.085	0.046	4.819e+00	-0.049	0.028	0.998	1.157e-02	-0.084	0.996	-0.032	-5.209e-01	
-2.007	-1.207	-0.100	0.995	0.084	0.051	5.165e+00	-0.051	0.025	0.998	-1.449e-02	-0.082	0.996	-0.044	-2.764e-01	
-1.807	-1.207	-0.100	0.996	0.080	0.048	5.568e+00	-0.092	0.768	0.934	-1.513e-03	0.013	-0.630	-0.996	-1.914e-02	
-1.607	-1.207	-0.100	0.996	0.071	0.044	5.983e+00	-0.075	0.994	0.080	2.598e-01	-0.038	-0.083	0.996	-0.772	-2.990e-02
-1.406	-1.207	-0.100	0.997	0.058	0.040	6.398e+00	-0.061	0.996	0.067	5.318e-01	-0.036	-0.069	0.997	-1.807e-02	
-1.205	-1.207	-0.100	0.999	0.037	0.037	6.815e+00	-0.042	0.996	0.072	8.045e-01	-0.034	-0.074	0.997	-1.801e-02	
-1.006	-1.207	-0.100	0.999	0.015	0.034	7.244e+00	-0.018	0.996	0.086	1.049e+00	-0.032	-0.086	0.996	-1.917e-02	
-0.806	-1.207	-0.100	0.999	-0.015	0.029	7.696e+00	0.012	0.994	0.106	1.231e+00	-0.031	-0.105	0.994	-2.204e-02	
-0.606	-1.207	-0.100	0.999	-0.048	0.024	8.186e+00	0.045	0.990	0.135	1.291e+00	-0.030	-0.134	0.991	-2.759e-02	
-0.405	-1.207	-0.100	0.999	-0.076	0.016	8.717e+00	0.072	0.981	0.183	1.154e+00	-0.030	-0.181	0.983	-3.804e-02	
-0.205	-1.207	-0.100	0.996	-0.090	0.008	9.250e+00	0.084	0.955	0.282	7.808e-01	-0.033	-0.280	0.959	-6.110e-02	
-0.005	-1.207	-0.100	0.997	-0.082	0.001	9.701e+00	0.084	0.785	0.414	2.745e-01	-0.052	-0.612	0.789	-1.554e-01	
0.195	-1.207	-0.100	0.998	-0.058	-0.003	9.967e+00	0.018	0.265	0.564	5.018e-02	0.055	0.963	-0.465	-5.929e-01	
0.395	-1.207	-0.100	1.000	-0.026	-0.006	1.000e+01	0.009	0.100	0.995	1.318e-02	0.025	0.995	-0.100	-1.132e+00	
0.596	-1.207	-0.100	1.000	0.005	-0.008	9.841e+00	0.008	0.046	0.999	1.738e-03	-0.005	0.999	-0.046	-1.544e+00	
0.796	-1.207	-0.100	1.000	0.029	-0.010	9.547e+00	0.010	0.022	1.000	-1.440e-03	-0.030	0.999	-0.022	-1.823e+00	
0.996	-1.207	-0.100	0.999	0.047	-0.013	9.172e+00	0.012	0.010	1.000	-6.474e-03	-0.047	0.998	-0.009	-2.006e+00	
1.196	-1.207	-0.100	0.998	0.058	-0.016	8.745e+00	0.016	0.003	1.000	-9.042e-03	-0.058	0.998	-0.002	-2.135e+00	
1.396	-1.207	-0.100	0.998	0.063	-0.021	8.277e+00	0.021	-0.001	1.000	-1.202e-02	-0.063	0.998	0.003	-2.244e+00	
1.597	-1.207	-0.100	0.998	0.064	-0.027	7.774e+00	0.028	0.005	1.000	-1.628e-02	-0.064	0.998	0.007	-2.366e+00	
1.797	-1.207	-0.100	0.997	0.062	-0.038	7.242e+00	0.038	-0.009	0.998	-2.266e-02	-0.061	0.998	0.011	-2.541e+00	
1.997	-1.207	-0.100	0.997	0.054	-0.056	6.689e+00	0.057	-0.013	0.998	-3.049e-02	-0.053	0.998	0.016	-2.814e+00	
2.197	-1.207	-0.100	0.995	0.022	-0.093	6.093e+00	0.093	-0.011	0.996	-8.712e-02	-0.021	1.000	0.013	-3.137e+00	
2.397	-1.207	-0.100	0.977	0.075	-0.197	5.089e+00	0.198	0.002	0.980	-2.694e-01	0.073	0.997	-0.017	-2.648e+00	
2.598	-1.207	-0.100	0.990	-0.058	-0.130	3.187e+00	0.136	0.115	0.994	1.280e-01	0.073	0.992	-0.122	-1.019e+00	
2.798	-1.207	-0.100	0.996	0.088	0.006	3.062e+00	-0.012	0.068	0.998	3.491e-02	-0.088	0.994	-0.068	-3.216e-01	
2.998	-1.207	-0.100	0.993	0.114	0.026	3.235e+00	-0.028	0.021	0.999	1.247e-03	-0.113	0.993	-0.024	-1.050e+00	
3.198	-1.207	-0.100	0.992	0.123	0.027	3.394e+00	-0.028	0.005	1.000	-2.823e-03	-0.123	0.992	-0.009	-1.080e+00	
3.399	-1.207	-0.100	0.991	0.131	0.026	3.560e+00	-0.026	-0.004	1.000	-2.921e-03	-0.131	0.991	0.001	-1.072e+00	
3.599	-1.207	-0.100	0.990	0.141	0.025	3.737e+00	-0.024	-0.012	1.000	-2.955e-03	-0.141	0.990	0.002	-1.051e+00	
3.799	-1.207	-0.100	0.989	0.148	0.024	3.922e+00	-0.021	-0.018	1.000	-2.922e-03	-0.149	0.989	0.003	-1.047e+00	
3.999	-1.207	-0.100	0.988	0.153	0.023	4.112e+00	-0.019	-0.023	1.000	-1.937e-03	-0.153	0.988	0.020	-9.727e-01	
4.199	-1.207	-0.100	0.988	0.155	0.021	4.307e+00	-0.017	-0.027	0.999	-1.700e-03	-0.156	0.987	0.024	-9.291e-01	
4.399	-1.207	-0.100	0.988	0.156	0.020	4.504e+00	-0.016	-0.031	0.999	-1.496e-03	-0.156	0.987	0.028	-8.832e-01	

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4.600	-1.207	-0.100	0.988	0.155	0.019	4.701e+00	-0.014	-0.034	0.999	-1.318e-03	-0.155	0.987	0.031	-8.361e-01
4.800	-1.207	-0.100	0.988	0.152	0.018	4.897e+00	-0.013	-0.037	0.999	-1.160e-03	-0.153	0.988	0.034	-7.887e-01
5.000	-1.207	-0.100	0.989	0.149	0.017	5.090e+00	-0.011	-0.039	0.999	-1.019e-03	-0.150	0.988	0.037	-7.419e-01
-5.010	-1.007	-0.100	1.000	-0.019	-0.005	1.152e+01	0.006	0.063	0.998	-3.980e-03	0.019	0.998	-0.063	-2.926e-01
-4.810	-1.007	-0.100	1.000	-0.018	-0.007	1.140e+01	0.008	0.056	0.998	-5.275e-03	0.018	0.998	-0.056	-3.509e-01
-4.610	-1.007	-0.100	1.000	-0.017	-0.010	1.123e+01	0.011	0.050	0.998	-7.054e-03	0.016	0.999	-0.050	-4.182e-01
-4.410	-1.007	-0.100	1.000	-0.015	-0.013	1.100e+01	0.014	0.044	0.999	-9.325e-03	0.013	0.999	-0.044	-4.963e-01
-4.209	-1.007	-0.100	1.000	-0.013	-0.017	1.071e+01	0.018	0.038	0.999	-1.325e-02	0.011	0.999	-0.038	-5.855e-01
-4.009	-1.007	-0.100	1.000	-0.011	-0.023	1.032e+01	0.023	0.033	0.999	-1.871e-02	0.010	0.999	-0.033	-6.803e-01
-3.809	-1.007	-0.100	1.000	-0.008	-0.030	9.874e+00	0.030	0.027	0.999	-2.667e-02	0.007	1.000	-0.027	-8.065e-01
-3.609	-1.007	-0.100	0.999	-0.004	-0.040	9.176e+00	0.040	0.021	0.999	-3.591e-02	0.003	0.999	-0.021	-9.267e-01
-3.409	-1.007	-0.100	0.999	-0.011	-0.051	8.353e+00	0.051	0.014	0.998	-2.769e-02	-0.004	1.000	-0.014	-1.024e+00
-3.208	-1.007	-0.100	0.999	0.015	-0.038	7.253e+00	0.038	-0.002	0.999	9.285e-02	-0.015	1.000	0.002	-1.051e+00
-3.008	-1.007	-0.100	0.998	0.036	0.059	6.257e+00	-0.057	-0.055	0.997	4.322e-02	-0.039	0.998	0.053	-1.133e+00
-2.808	-1.007	-0.100	0.994	0.025	-0.110	5.921e+00	0.110	0.007	0.994	-5.818e-01	-0.025	1.000	-0.004	-1.493e+00
-2.608	-1.007	-0.100	0.986	0.047	-0.158	4.654e+00	0.158	0.003	0.995	1.867e-01	-0.059	0.996	-0.071	-8.646e-01
-2.407	-1.007	-0.100	0.996	0.090	0.004	4.499e+00	-0.007	0.036	0.999	2.213e-01				

trial 1 output: 104 of 137

-2.007	-0.406	-0.100	0.991	0.122	0.054	5.301e+00	-0.031	-0.188	0.982	-5.899e-04	-0.130	0.975	0.182	-6.370e-01
-1.807	-0.406	-0.100	0.990	0.132	0.051	5.712e+00	-0.001	-0.154	0.985	-2.792e-02	-0.142	0.926	0.350	-4.207e-01
-1.607	-0.406	-0.100	0.989	0.138	0.049	6.119e+00	0.056	-0.665	0.745	1.368e+01	-0.135	0.734	0.665	-2.392e-01
-1.406	-0.406	-0.100	0.989	0.140	0.048	6.516e+00	-0.100	0.873	-0.478	4.005e-01	-0.109	0.468	0.877	-1.627e-01
-1.206	-0.406	-0.100	0.989	0.136	0.050	6.913e+00	-0.111	0.933	-0.343	7.939e-01	-0.094	0.333	0.938	-1.544e-01
-1.006	-0.406	-0.100	0.991	0.123	0.057	7.329e+00	-0.102	0.954	-0.282	1.309e+00	-0.089	0.273	0.958	-1.807e-01
-0.806	-0.406	-0.100	0.993	0.092	0.070	7.806e+00	-0.072	0.965	-0.252	1.977e+00	-0.072	0.965	-0.252	1.977e+00
-0.606	-0.406	-0.100	0.995	0.020	0.097	8.463e+00	0.003	0.972	-0.237	2.855e+00	-0.091	0.246	0.965	-2.501e-01
-0.405	-0.406	-0.100	0.977	-0.146	0.153	9.827e+00	0.176	0.962	-0.211	3.809e+00	-0.116	0.233	0.966	-8.517e-01
-0.205	-0.406	-0.100	0.939	-0.275	0.205	1.419e+01	0.286	0.958	-0.029	3.323e+00	-0.189	0.086	0.978	-1.795e+00
-0.005	-0.406	-0.100	0.992	-0.101	0.077	1.756e+01	0.029	0.766	0.643	3.922e+00	-0.124	-0.635	0.762	-2.963e+00
0.195	-0.406	-0.100	0.995	0.094	-0.021	1.479e+01	-0.005	0.962	0.131	4.312e+01	-0.097	0.957	-0.273	1.795e+00
0.395	-0.406	-0.100	0.985	0.173	-0.005	1.190e+01	-0.006	0.666	0.998	3.426e-02	-0.173	0.983	-0.066	-2.923e+00
0.596	-0.406	-0.100	0.982	0.187	-0.003	1.046e+01	-0.001	0.021	1.000	-1.344e-04	-0.187	0.982	-0.021	-2.736e+00
0.796	-0.406	-0.100	0.982	0.188	-0.004	9.563e+00	0.003	0.006	1.000	-6.302e-03	-0.188	0.982	-0.005	-2.568e+00
0.996	-0.406	-0.100	0.983	0.183	-0.007	8.882e+00	0.007	0.001	1.000	-8.264e-03	-0.183	0.983	0.001	-2.416e+00
1.196	-0.406	-0.100	0.985	0.174	-0.011	8.294e+00	0.011	-0.001	1.000	-9.703e-03	-0.174	0.985	0.003	-2.286e+00
1.396	-0.406	-0.100	0.987	0.162	-0.016	7.738e+00	0.016	-0.002	1.000	-1.162e-02	-0.162	0.987	0.005	-2.178e+00
1.597	-0.406	-0.100	0.989	0.147	-0.022	7.175e+00	0.022	-0.002	1.000	-1.468e-02	-0.147	0.989	0.006	-2.103e+00
1.797	-0.406	-0.100	0.991	0.131	-0.031	6.572e+00	0.032	-0.004	0.999	-1.983e-02	-0.131	0.991	0.009	-2.073e+00
1.997	-0.406	-0.100	0.992	0.116	-0.044	5.900e+00	0.046	-0.014	0.999	-3.001e-02	-0.116	0.993	0.019	-2.132e+00
2.197	-0.406	-0.100	0.991	0.108	-0.052	5.183e+00	0.088	-0.051	0.995	-9.797e-02	-0.104	0.993	0.060	-2.476e+00
2.397	-0.406	-0.100	0.966	0.001	-0.258	5.300e+00	0.257	-0.103	0.961	-2.286e-01	0.025	0.995	0.100	-3.474e+00
2.598	-0.406	-0.100	0.991	0.088	-0.098	3.812e+00	0.072	0.256	0.964	2.141e-01	-0.110	0.963	-0.247	-6.279e-01
2.798	-0.406	-0.100	0.997	0.083	-0.001	3.274e+00	-0.004	0.046	0.999	2.532e-02	-0.101	0.995	-0.021	-1.362e+00
2.998	-0.406	-0.100	0.995	0.101	0.020	3.109e+00	-0.022	0.019	1.000	0.139e-03	-0.093	0.995	-0.046	-1.290e+00
3.198	-0.406	-0.100	0.992	0.121	0.025	3.130e+00	-0.026	0.005	1.000	-4.339e-04	-0.121	0.993	-0.008	-1.347e+00
3.398	-0.406	-0.100	0.990	0.137	0.027	3.235e+00	-0.026	-0.006	1.000	-1.366e-03	-0.137	0.993	0.002	-1.310e+00
3.599	-0.406	-0.100	0.989	0.147	0.027	3.381e+00	-0.025	-0.013	1.000	-1.693e-03	-0.147	0.989	0.009	-1.261e+00
3.799	-0.406	-0.100	0.988	0.152	0.026	3.534e+00	-0.024	-0.019	1.000	-1.812e-03	-0.152	0.988	0.015	-1.205e+00
3.999	-0.406	-0.100	0.988	0.155	0.026	3.731e+00	-0.022	-0.023	0.999	-1.836e-03	-0.155	0.988	0.019	-1.143e+00
4.199	-0.406	-0.100	0.988	0.155	0.025	3.921e+00	-0.021	-0.026	0.999	-1.806e-03	-0.155	0.988	0.023	-1.078e+00
4.399	-0.406	-0.100	0.988	0.153	0.023	4.117e+00	-0.019	-0.029	0.999	-1.742e-03	-0.153	0.988	0.026	-1.011e+00
4.599	-0.406	-0.100	0.989	0.150	0.022	4.316e+00	-0.018	-0.038	0.999	-1.656e-03	-0.150	0.988	0.029	-9.441e-01
4.800	-0.406	-0.100	0.989	0.145	0.021	4.516e+00	-0.016	-0.034	0.999	-1.557e-03	-0.146	0.989	0.031	-8.785e-01
5.000	-0.406	-0.100	0.990	0.141	0.020	4.716e+00	-0.015	-0.035	0.999	-1.451e-03	-0.141	0.989	0.033	-8.150e-01
-5.010	-0.206	-0.100	1.000	-0.025	-0.004	1.144e+01	0.007	0.105	0.994	-3.055e-03	0.024	0.994	-0.105	-1.869e-01
-4.810	-0.206	-0.100	1.000	-0.024	-0.003	1.131e+01	0.008	0.087	0.996	-4.504e-03	0.023	0.996	-0.087	-2.444e-01
-4.610	-0.206	-0.100	1.000	-0.023	-0.008	1.117e+01	0.010	0.073	0.997	-6.401e-03	0.022	0.997	-0.073	-3.139e-01
-4.409	-0.206	-0.100	1.000	-0.021	-0.011	1.096e+01	0.013	0.061	0.998	-9.017e-03	0.020	0.998	-0.062	-3.947e-01
-4.209	-0.206	-0.100	1.000	-0.019	-0.015	1.067e+01	0.016	0.052	0.999	-1.276e-02	0.019	0.998	-0.052	-4.920e-01
-4.009	-0.206	-0.100	1.000	-0.018	-0.021	1.036e+01	0.021	0.044	0.999	-1.825e-02	0.017	0.999	-0.044	-6.076e-01
-3.809	-0.206	-0.100	0.999	-0.016	-0.028	9.817e+00	0.029	0.038	0.999	-2.612e-02	0.015	0.999	-0.039	-7.435e-01
-3.609	-0.206	-0.100	0.999	-0.017	-0.038	9.185e+00	0.039	0.038	0.999	-3.485e-02	0.015	0.999	-0.039	-8.982e-01
-3.408	-0.206	-0.100	0.999	-0.024	-0.049	8.370e+00	0.050	0.053	0.997	-2.370e-02	0.021	0.998	-0.054	-1.060e+00
-3.208	-0.206	-0.100	0.998	-0.046	-0.036	7.337e+00	0.042	0.119	0.992	1.197e-01	0.041	0.992	-0.121	-1.205e+00
-3.008	-0.206	-0.100	0.993	-0.087	-0.075	6.167e+00	0.032	0.418	0.998	3.412e-01	0.110	0.904	-0.413	-1.638e+00
-2.808	-0.206	-0.100	0.991	0.228	0.393	5.372e+00	-0.436	0.675	0.996	2.610e+00	-0.129	-0.702	0.700	-7.087e+00
-2.608	-0.206	-0.100	0.984	0.103	-0.146	5.164e+00	0.167	-0.242	0.956	2.892e-01	-0.063	0.965	0.256	-1.128e+00
-2.407	-0.206	-0.100	0.996	0.094	-0.000	4.853e+00	0.006	-0.063	0.998	1.294e-01	-0.094	0.994	0.064	-1.227e+00
-2.207	-0.206	-0.100	0.992	0.117	0.046	5.022e+00	-0.034	-0.105	0.994	1.987e-02	-0.121	0.988	0.101	-1.132e+00
-2.007	-0.206	-0.100	0.990	0.133	0.050	5.373e+00	-0.020	-0.166	0.986	4.924e-02	-0.139	0.977	0.161	-9.704e-01
-1.807	-0.206	-0.100	0.989	0.144	0.047	5.769e+00	-0.008	-0.255	0.967	2.627e-02	-0.151	0.956	0.251	-7.938e-01
-1.607	-0.206	-0.100	0.987	0.152	0.042	6.163e+00	0.021	-0.393	0.919	8.196e-02	-0.156	0.907	0.391	-6.938e-01
-1.406	-0.206	-0.100	0.987	0.157	0.039	6.540e+00	0.058	-0.568	0.821	2.032e-01	-0.153	0.808	0.570	-5.125e-01
-1.206	-0.206	-0.100	0.987	0.158	0.038	6.901e+00	-0.088	-0.711	-0.697	4.279e-01	-0.137	0.685	0.716	-4.761e-01
-1.006	-0.206	-0.100	0.988	0.152	0.038	7.250e+00	-0.098	-0.786	-0.610	7.757e-01	-0.123	0.599	0.792	-5.380e-01

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-0.806	-0.206	-0.100	0.990	0.134	0.038	7.583e+00	-0.098	0.814	-0.574	1.279e+00	-0.108	0.565	0.818	-7.444e-01
-0.606	-0.206	-0.100	0.995	0.066	0.036	7.861e+00	-0.049	0.811	-0.583	2.063e+00	-0.080	0.578	0.812	-1.299e+00
-0.405	-0.206	-0.100	0.999	-0.045	0.027	7.857e+00	0.052	0.769	-0.637	3.793e+00	0.008	0.637	0.771	-3.156e+00
-0.205	-0.206	-0.100	0.167	-0.721	0.673	1.221e+01	-0.955	0.500	0.291	6.281e+00	0.243	0.691	0.680	-1.298e+01
-0.005	-0.206	-0.100	-0.050	-0.546	0.836	2.587e+01	0.766	0.558	-0.318	1.056e+01	0.640	-0.625	0.446	-2.071e+01
0.195	-0.206	-0.100	0.085	0.452	0.112	9.842e+00	-0.197	0.145	0.970	-1.434e-01	-0.422	0.880	-0.217	-2.789e+00
0.395	-0.206	-0.100	0.948	0.117	0.029	9.640e+00	-0.044	0.939	0.998	-2.324e-02	-0.315	0.948	-0.051	-2.671e+00
0.596	-0.206	-0.100	0.962	0.274	0.010	9.262e+00	-0.013	0.009	1.000	-1.326e-02	-0.274	0.962	-0.012	-2.656e+00
0.796	-0.206	-0.100	0.968	0.251	0.003	8.779e+00	-0.003	-0.001	1.000	-1.090e-02	-0.251	0.968	0.000	-2.515e+00
0.996	-0.206	-0.100	0.973	0.232	-0.003	8.301e+00	0.004	-0.004	1.000	-1.014e-02	-0.232	0.973	0.005	-2.347e+00
1.196	-0.206	-0.100	0.977	0.213	-0.008	7.835e+00	0.009	-0.004	1.000	-1.046e-02	-0.213	0.977	0.006	-2.193e+00
1.396	-0.206	-0.100	0.981	0.194	-0.014	7.366e+00	0.015	-0.003	1.000	-1.180e-02	-0.194	0.981	0.006	-2.068e+00
1.597	-0.206	-0.100	0.985	0.173	-0.021	6.880e+00	0.022	-0.003	1.000	-1.453e-02	-0.173	0.985	0.007	-1.983e+00
1.797	-0.206	-0.100	0.988	0.150	-0.031	6.367e+00	0.032	-0.004	0.999	-1.967e-02	-0.150	0.989	0.009	-1.954e+00
1.997	-0.206	-0.100	0.992	0.121	-0.047	5.823e+00	0.048	-0.007	0.999	-3.256e-02	-0.121	0.993	0.012	-2.014e+00
2.197	-0.206	-0.100	0.994	0.098	-0.058	5.247e+00	0.064	-0.018	0.996	-4.647e-02	-0.098	0.994	0.015	-2.092e+00
2.397	-0.206	-0.100	0.991	-0.027	-0.191	4.575e+00	0.192	0.014	0.981	-1				

trial 1 output: 108 of 137

2.798	0.394	-0.100	0.995	0.095	0.001	2.257e+00	-0.003	0.021	1.000	2.010e-02	-0.095	0.995	-0.021	-1.643e+00
2.998	0.394	-0.100	0.993	0.120	0.023	2.316e+00	-0.024	0.009	1.000	4.768e-03	-0.120	0.993	-0.012	-1.584e+00
3.198	0.394	-0.100	0.990	0.141	0.029	2.454e+00	-0.030	0.002	1.000	1.265e-03	-0.141	0.990	-0.002	-1.541e+00
3.398	0.394	-0.100	0.988	0.154	0.032	2.622e+00	-0.031	0.010	0.999	-3.495e-04	-0.154	0.988	0.005	-1.486e+00
3.598	0.394	-0.100	0.987	0.160	0.033	2.808e+00	-0.031	0.016	0.999	-1.272e-03	-0.160	0.987	0.011	-1.417e+00
3.798	0.394	-0.100	0.986	0.162	0.032	3.006e+00	-0.029	0.021	0.999	-1.805e-03	-0.162	0.987	0.016	-1.338e+00
3.998	0.394	-0.100	0.987	0.160	0.031	3.214e+00	-0.028	0.024	0.999	-2.093e-03	-0.160	0.987	0.020	-1.253e+00
4.198	0.394	-0.100	0.987	0.156	0.030	3.428e+00	-0.026	0.027	0.999	-2.223e-03	-0.156	0.987	0.023	-1.168e+00
4.398	0.394	-0.100	0.988	0.151	0.028	3.647e+00	-0.024	0.029	0.999	-2.255e-03	-0.151	0.988	0.025	-1.082e+00
4.600	0.394	-0.100	0.989	0.144	0.027	3.868e+00	-0.022	0.033	0.999	-2.211e-03	-0.144	0.989	0.027	-9.955e-01
4.800	0.394	-0.100	0.990	0.138	0.025	4.090e+00	-0.021	0.032	0.999	-2.130e-03	-0.138	0.990	0.029	-9.201e-01
5.000	0.394	-0.100	0.991	0.131	0.023	4.310e+00	-0.019	0.033	0.999	-2.024e-03	-0.131	0.991	0.030	-8.448e-01
-5.010	0.595	-0.100	1.000	-0.024	-0.003	1.137e+01	0.006	0.141	0.990	-3.217e-03	0.024	0.990	-0.141	-9.923e-02
-4.810	0.595	-0.100	1.000	-0.023	-0.005	1.127e+01	0.007	0.094	0.996	-5.035e-03	0.022	0.995	-0.094	-1.590e-01
-4.610	0.595	-0.100	1.000	-0.021	0.007	1.112e+01	0.008	0.068	0.998	-7.110e-03	0.021	0.997	-0.068	-2.329e-01
-4.409	0.595	-0.100	1.000	-0.020	-0.010	1.092e+01	0.011	0.050	0.999	-9.828e-03	0.019	0.999	-0.050	-3.245e-01
-4.209	0.595	-0.100	1.000	-0.018	-0.014	1.066e+01	0.014	0.038	0.999	-1.365e-02	0.017	0.999	-0.038	-4.389e-01
-4.009	0.595	-0.100	1.000	-0.015	-0.019	1.031e+01	0.020	0.028	0.999	-1.923e-02	0.015	0.999	-0.028	-5.842e-01
-3.809	0.595	-0.100	1.000	-0.013	-0.027	9.876e+00	0.027	0.022	0.999	-2.733e-02	0.013	1.000	-0.022	-7.739e-01
-3.609	0.595	-0.100	0.999	-0.012	-0.038	9.336e+00	0.039	0.019	0.999	-3.680e-02	0.012	1.000	-0.020	-1.030e+00
-3.408	0.595	-0.100	0.999	-0.011	-0.052	8.710e+00	0.053	0.024	0.998	-2.797e-02	0.013	1.000	-0.024	-1.385e+00
-3.208	0.595	-0.100	0.998	-0.010	-0.054	8.066e+00	0.055	0.044	0.997	-1.070e-01	0.016	0.999	-0.045	-1.871e+00
-3.008	0.595	-0.100	1.000	-0.008	-0.028	7.711e+00	0.028	0.103	0.994	1.748e-01	0.001	0.995	-0.103	-2.477e+00
-2.808	0.595	-0.100	0.992	0.075	-0.264	7.363e+00	0.247	0.100	0.950	-8.045e-01	-0.121	0.979	-0.165	-1.646e+00
-2.608	0.595	-0.100	0.976	0.058	-0.209	5.194e+00	0.214	-0.094	0.972	1.299e-01	-0.037	0.994	0.104	-2.102e+00
-2.407	0.595	-0.100	0.997	0.079	-0.015	4.785e+00	0.019	-0.053	0.998	1.358e-01	-0.078	0.995	0.054	-2.427e+00
-2.207	0.595	-0.100	0.995	0.095	0.031	4.095e+00	-0.025	-0.067	0.997	2.575e-02	-0.097	0.993	0.064	-2.575e+00
-2.007	0.595	-0.100	0.994	0.106	0.030	4.493e+00	-0.022	-0.079	0.997	4.791e-03	-0.108	0.991	0.076	-1.662e+00
-1.807	0.595	-0.100	0.994	0.110	0.020	5.867e+00	-0.010	-0.090	0.996	5.811e-03	-0.111	0.990	0.088	-2.763e+00
-1.607	0.595	-0.100	0.994	0.109	0.009	6.178e+00	0.002	-0.099	0.995	1.785e-02	-0.109	0.989	0.099	-2.914e+00
-1.406	0.595	-0.100	0.995	0.102	0.003	6.405e+00	0.014	-0.107	0.994	2.846e-02	-0.101	0.989	0.108	-3.134e+00
-1.206	0.595	-0.100	0.996	0.088	-0.017	6.522e+00	0.027	-0.114	0.993	3.896e-02	-0.086	0.990	0.115	-3.430e+00
-1.006	0.595	-0.100	0.997	0.066	-0.033	6.500e+00	0.040	-0.118	0.992	4.768e-02	-0.061	0.991	0.120	-3.804e+00
-0.806	0.595	-0.100	0.998	0.031	-0.052	6.292e+00	0.055	-0.120	0.991	5.277e-02	-0.024	0.992	0.121	-4.240e+00
-0.606	0.595	-0.100	0.997	-0.019	-0.076	5.846e+00	0.074	-0.121	0.990	4.905e-02	0.028	0.992	0.119	-4.703e+00
-0.405	0.595	-0.100	0.989	-0.091	-0.116	5.136e+00	0.104	-0.121	0.987	-1.155e-02	0.104	0.989	0.110	-5.131e+00
-0.205	0.595	-0.100	0.993	-0.212	-0.187	4.210e+00	0.158	-0.118	0.980	-2.114e-01	0.228	0.970	0.088	-5.359e+00
-0.005	0.595	-0.100	0.925	-0.379	-0.013	3.633e+00	0.032	0.111	0.993	-2.950e-01	0.378	0.919	-0.115	-4.984e+00
0.195	0.595	-0.290	0.965	-0.257	0.048	3.065e+00	0.111	0.567	0.816	1.520e+00	0.237	0.783	-0.576	-2.953e+00
0.395	0.595	-0.290	0.937	0.312	0.157	3.071e+00	-0.249	0.280	0.927	1.013e-01	-0.245	0.908	-0.340	-1.444e+00
0.596	0.595	-0.100	0.866	0.414	0.083	4.082e+00	-0.099	0.177	0.995	-5.090e-02	-0.411	0.910	-0.066	-1.552e+00
0.796	0.595	-0.100	0.916	0.400	0.042	4.740e+00	-0.043	-0.091	0.989	-2.950e-02	-0.403	0.917	-0.089	-1.568e+00
0.996	0.595	-0.100	0.929	0.369	0.020	5.101e+00	-0.016	-0.013	1.000	-1.849e-02	-0.369	0.929	0.006	-1.475e+00
1.196	0.595	-0.100	0.942	0.336	0.006	5.222e+00	-0.003	-0.009	1.000	-1.413e-02	-0.336	0.942	0.008	-1.332e+00
1.396	0.595	-0.100	0.954	0.300	-0.006	5.166e+00	0.007	-0.002	1.000	-1.315e-02	-0.300	0.954	0.004	-1.165e+00
1.596	0.595	-0.100	0.965	0.264	-0.017	4.961e+00	0.016	-0.001	1.000	-1.400e-02	-0.264	0.965	0.003	-9.890e-01
1.797	0.595	-0.100	0.977	0.213	-0.030	4.628e+00	0.026	0.024	0.999	-1.778e-02	-0.213	0.977	-0.018	-8.177e-01
1.997	0.595	-0.100	0.987	0.151	-0.048	4.178e+00	0.039	0.062	0.997	-2.488e-02	-0.154	0.987	-0.055	-6.700e-01
2.197	0.595	-0.100	0.994	0.074	-0.078	3.616e+00	0.061	0.211	0.976	-5.671e-02	-0.088	0.975	-0.205	-5.552e-01
2.397	0.595	-0.100	0.988	0.149	-0.045	2.583e+00	-0.037	0.503	0.864	4.873e-02	-0.151	0.857	-0.052	-4.583e+00
2.598	0.595	-0.100	0.998	0.028	-0.054	2.140e+00	0.055	-0.022	0.998	1.607e-02	-0.027	0.999	0.024	-1.939e+00
2.798	0.595	-0.100	0.998	0.070	-0.002	2.082e+00	0.000	0.018	1.000	1.920e-02	-0.070	0.997	-0.018	-1.692e+00
2.998	0.595	-0.100	0.994	0.110	0.021	2.162e+00	-0.023	0.009	1.000	5.870e-03	-0.109	0.994	-0.011	-1.650e+00
3.198	0.595	-0.100	0.990	0.137	0.030	2.296e+00	-0.030	-0.002	1.000	1.942e-03	-0.137	0.991	-0.002	-1.600e+00
3.398	0.595	-0.100	0.988	0.153	0.034	2.463e+00	-0.031	0.011	0.999	-1.531e-03	-0.153	0.988	0.006	-1.461e+00
3.598	0.595	-0.100	0.986	0.160	0.035	2.652e+00	-0.033	0.017	0.999	-1.274e-03	-0.160	0.987	0.011	-1.450e+00
3.798	0.595	-0.100	0.986	0.161	0.035	2.856e+00	-0.032	-0.021	0.999	-1.918e-03	-0.162	0.987	0.016	-1.362e+00

trial 1 output: 109 of 137

3.999	0.595	-0.100	0.987	0.159	0.033	3.072e+00	-0.030	-0.025	0.999	-2.260e-03	-0.160	0.987	0.010	-1.270e+00
4.199	0.595	-0.100	0.988	0.154	0.032	3.294e+00	-0.028	-0.027	0.999	-2.414e-03	-0.155	0.988	0.022	-1.179e+00
4.399	0.595	-0.100	0.989	0.140	0.030	3.521e+00	-0.026	-0.029	0.999	-2.448e-03	-0.149	0.989	0.025	-1.090e+00
4.600	0.595	-0.100	0.990	0.141	0.028	3.750e+00	-0.024	-0.030	0.999	-2.407e-03	-0.142	0.990	0.026	-1.004e+00
4.800	0.595	-0.100	0.991	0.134	0.026	3.979e+00	-0.022	-0.031	0.999	-2.319e-03	-0.135	0.990	0.028	-9.217e-01
5.000	0.595	-0.100	0.992	0.127	0.024	4.207e+00	-0.020	-0.032	0.999	-2.204e-03	-0.127	0.991	0.029	-8.444e-01
-5.010	0.795	-0.100	1.000	-0.023	-0.003	1.135e+01	0.006	0.133	0.991	-3.661e-03	0.023	0.991	-0.133	-8.707e-02
-4.810	0.795	-0.100	1.000	-0.022	-0.004	1.125e+01	0.006	0.083	0.997	-5.445e-03	0.021	0.996	-0.083	-1.483e-01
-4.610	0.795	-0.100	1.000	-0.020	-0.007	1.111e+01	0.008	0.057	0.998	-7.477e-03	0.020	0.998	-0.057	-2.239e-01
-4.409	0.795	-0.100	1.000	-0.018	-0.010	1.086e+01	0.010	0.049	0.999	-9.041e-03	0.018	0.999	-0.041	-3.171e-01
-4.209	0.795	-0.100	1.000	-0.017	-0.013	1.064e+01	0.014	0.030	0.999	-1.094e-02	0.016	0.999	-0.031	-4.320e-01
-4.009	0.795	-0.100	1.000	-0.015	-0.019	1.030e+01	0.019	0.023	1.000	-1.950e-02	0.014	1.000	-0.023	-5.738e-01
-3.809	0.795	-0.100	1.000	-0.014	-0.026	9.846e+00	0.027	0.019	0.999	-2.755e-02	0.014	1.000	-0.019	-7.468e-01
-3.609	0.795	-0.100	0.999	-0.016	-0.037	9.262e+00	0.037	0.022	0.999	-3.662e-02	0.015	1.000	-0.022	-9.696e-01
-3.408	0.795	-0.100	0.998	-0.025	-0.048	8.520e+00	0.048	0.038	0.998	-2.486e-02	0.023	0.999	-0.048	-1.203e+00
-3.208	0.795	-0.100	0.998	-0.049	-0.035	7.603e+00	0.040	0.109	0.993	1.290e-01	0.045	0.993	-0.111	-1.439e+00
-3.008	0.795	-0.100	0.993	-0.248	0.072	6.704e+00	-0.029	0.420	0.907					

trial 1 output: 112 of 137

-2.607	1.395	-0.100	0.979	0.058	-0.195	5.346e+00	0.195	0.006	0.981	1.369e-01	-0.058	0.998	0.005	-3.401e+00
-2.407	1.395	-0.100	0.998	0.056	-0.026	4.939e+00	0.027	-0.022	0.999	1.383e-01	-0.056	0.998	0.021	-3.672e+00
-2.207	1.395	-0.100	0.999	0.054	0.021	5.167e+00	-0.020	-0.030	0.999	2.294e-02	-0.046	0.998	0.029	-3.796e+00
-2.007	1.395	-0.100	0.999	0.038	0.020	5.498e+00	-0.019	-0.032	0.999	-3.943e-03	-0.039	0.999	0.031	-3.892e+00
-1.807	1.395	-0.100	0.999	0.030	0.010	5.792e+00	-0.009	-0.032	0.999	-6.539e-03	-0.031	0.999	0.032	-4.014e+00
-1.607	1.395	-0.100	1.000	0.021	-0.001	5.999e+00	0.002	-0.033	0.999	-5.371e-03	-0.021	0.999	0.033	-4.177e+00
-1.406	1.395	-0.100	1.000	0.013	0.000	6.097e+00	-0.013	-0.030	0.999	-4.913e-03	-0.009	0.999	0.032	-4.378e+00
-1.206	1.395	-0.100	1.000	-0.008	-0.024	6.072e+00	0.024	-0.032	0.999	-6.244e-03	0.009	0.999	0.032	-4.606e+00
-1.006	1.395	-0.100	0.999	-0.027	-0.037	5.906e+00	0.037	-0.032	0.999	-9.952e-03	0.028	0.999	0.031	-4.845e+00
-0.806	1.395	-0.100	0.997	-0.051	-0.053	5.586e+00	0.051	-0.033	0.998	-1.663e-02	0.052	0.998	0.030	-5.076e+00
-0.606	1.395	-0.100	0.994	-0.078	-0.072	5.094e+00	0.069	-0.035	0.997	-2.595e-02	0.080	0.996	0.030	-5.276e+00
-0.405	1.395	-0.100	0.989	-0.109	-0.098	4.417e+00	0.094	-0.043	0.995	-4.249e-02	0.112	0.993	0.033	-5.624e+00
-0.205	1.395	-0.100	0.977	-0.138	-0.164	3.566e+00	0.154	-0.078	0.985	-1.173e-01	0.149	0.987	0.050	-5.547e+00
-0.005	1.395	-0.100	0.889	-0.147	-0.435	2.732e+00	0.401	-0.210	0.892	-2.801e-01	0.222	0.967	0.128	-5.874e+00
0.195	1.395	-0.100	-0.589	0.361	0.723	2.289e+00	0.657	-0.306	0.689	-1.029e+00	0.470	0.681	-0.057	-4.674e+00
0.395	1.395	-0.100	0.922	0.386	0.020	3.107e+00	-0.016	-0.012	1.000	-1.606e-02	-0.387	0.922	0.005	-5.132e-01
0.595	1.395	-0.100	0.932	0.362	0.000	3.262e+00	-0.007	-0.017	1.000	-1.358e-02	-0.362	0.932	-0.018	-3.101e-01
0.796	1.395	-0.100	0.910	0.404	0.095	2.268e+00	-0.097	-0.014	0.995	-4.224e-02	-0.404	0.915	-0.027	-8.322e-01
0.996	1.395	-0.100	0.914	0.403	0.046	2.790e+00	-0.041	-0.021	0.999	-2.331e-02	-0.403	0.915	0.003	-6.984e-01
1.196	1.395	-0.100	0.922	0.386	0.020	3.107e+00	-0.016	-0.012	1.000	-1.606e-02	-0.387	0.922	0.005	-5.132e-01
1.396	1.395	-0.100	0.932	0.362	0.000	3.262e+00	-0.007	-0.017	1.000	-1.358e-02	-0.362	0.932	-0.018	-3.101e-01
1.597	1.395	-0.100	0.944	0.329	-0.019	2.283e+00	-0.039	0.169	0.985	-1.131e-02	-0.327	0.929	-0.172	-1.101e-01
1.797	1.395	-0.100	0.958	0.285	-0.042	3.210e+00	-0.263	0.925	0.276	8.600e-02	0.117	-0.253	0.960	-2.634e-02
1.997	1.395	-0.100	0.970	0.232	-0.075	3.111e+00	-0.219	0.964	0.154	2.455e-01	0.108	-0.133	0.985	-3.371e-02
2.197	1.395	-0.100	0.969	0.208	-0.134	3.111e+00	-0.195	0.975	0.151	0.375e-01	0.151	-0.078	0.985	-7.392e-02
2.397	1.395	-0.100	0.926	0.936	0.130	2.591e+00	-0.906	0.349	-0.239	1.937e+00	0.269	-0.040	0.962	9.314e-02
2.598	1.395	-0.100	0.981	0.076	-0.178	1.547e+00	0.177	0.017	0.984	-2.438e-03	-0.078	0.997	-0.004	-3.222e+00
2.798	1.395	-0.100	0.989	0.015	-0.013	1.084e+00	0.012	0.010	1.084e+00	-0.145	0.989	-0.008	-2.109e+00	
2.998	1.395	-0.100	0.990	0.134	0.031	1.306e+00	-0.031	0.000	1.000	7.700e-02	0.134	0.991	-0.005	-1.876e+00
3.198	1.395	-0.100	0.988	0.138	0.044	1.537e+00	-0.044	-0.007	0.999	2.625e-03	-0.138	0.990	0.004	-1.757e+00
3.398	1.395	-0.100	0.988	0.144	0.048	1.767e+00	-0.047	-0.014	0.999	-3.696e-04	-0.144	0.990	0.007	-1.643e+00
3.599	1.395	-0.100	0.988	0.146	0.048	2.005e+00	-0.046	-0.018	0.999	-2.055e-03	-0.146	0.989	0.011	-1.526e+00
3.799	1.395	-0.100	0.989	0.144	0.046	2.252e+00	-0.044	-0.021	0.999	-2.984e-03	-0.145	0.989	0.015	-1.409e+00
3.999	1.395	-0.100	0.990	0.139	0.044	2.507e+00	-0.041	-0.023	0.999	-3.427e-03	-0.140	0.990	0.017	-1.294e+00
4.199	1.395	-0.100	0.990	0.132	0.040	2.768e+00	-0.037	-0.025	0.999	-3.578e-03	-0.133	0.991	0.020	-1.185e+00
4.399	1.395	-0.100	0.992	0.124	0.037	3.032e+00	-0.034	-0.026	0.999	-3.556e-03	-0.125	0.992	0.021	-1.083e+00
4.600	1.395	-0.100	0.993	0.116	0.034	3.296e+00	-0.031	-0.026	0.999	-3.439e-03	-0.117	0.993	0.022	-9.872e-01
4.800	1.395	-0.100	0.994	0.108	0.031	3.558e+00	-0.028	-0.027	0.999	-3.267e-03	-0.108	0.994	0.023	-8.986e-01
5.000	1.395	-0.100	0.995	0.100	0.028	3.818e+00	-0.026	-0.027	0.999	-3.068e-03	-0.100	0.995	0.024	-8.158e-01
-5.010	1.596	-0.100	1.000	-0.018	-0.002	1.133e+01	0.002	-0.002	1.000	-5.196e-03	0.018	1.000	0.002	-9.545e-02
-4.810	1.596	-0.100	1.000	-0.017	-0.004	1.124e+01	0.004	-0.003	1.000	-6.508e-03	0.017	1.000	0.003	-1.675e-01
-4.610	1.596	-0.100	1.000	-0.015	-0.006	1.111e+01	0.006	-0.004	1.000	-8.366e-03	0.015	1.000	0.004	-2.557e-01
-4.409	1.596	-0.100	1.000	-0.013	-0.008	1.093e+01	0.008	-0.005	1.000	-1.085e-02	0.013	1.000	0.005	-3.639e-01
-4.209	1.596	-0.100	1.000	-0.011	-0.013	1.066e+01	0.013	-0.006	1.000	-1.450e-02	0.011	1.000	0.006	-4.971e-01
-4.009	1.596	-0.100	1.000	-0.009	-0.019	1.035e+01	0.019	-0.006	1.000	-2.022e-02	0.009	1.000	0.006	-6.632e-01
-3.809	1.596	-0.100	1.000	-0.006	-0.027	9.932e+00	0.027	-0.006	1.000	-2.857e-02	0.006	1.000	0.006	-8.741e-01
-3.609	1.596	-0.100	0.999	-0.003	-0.038	9.381e+00	0.038	-0.004	0.999	-3.838e-02	0.003	1.000	0.004	-1.148e+00
-3.409	1.596	-0.100	0.999	0.001	-0.052	8.700e+00	0.051	0.002	0.999	-2.815e-02	0.001	1.000	0.002	-1.506e+00
-3.208	1.596	-0.100	0.999	0.005	-0.050	8.000e+00	0.050	0.017	0.999	-1.178e-01	0.005	1.000	-0.017	-1.937e+00
-3.008	1.596	-0.100	1.000	0.016	0.002	7.371e+00	-0.003	0.060	0.998	1.589e-01	-0.016	0.998	-0.060	-2.346e+00
-2.808	1.596	-0.100	0.970	0.012	-0.243	6.676e+00	0.243	0.040	0.969	-8.632e-01	0.002	0.999	-0.042	-2.541e+00
-2.608	1.596	-0.100	0.973	0.031	-0.272	5.940e+00	0.272	0.030	0.972	-9.386e-02	-0.019	0.998	0.057	-3.652e+00
-2.407	1.596	-0.100	0.999	0.023	-0.027	4.749e+00	0.027	-0.027	0.999	1.401e-01	-0.023	0.999	0.027	-3.782e+00
-2.207	1.596	-0.100	1.000	0.021	0.021	5.105e+00	-0.021	-0.025	0.999	2.179e-02	-0.021	0.999	0.024	-3.932e+00
-2.007	1.596	-0.100	1.000	0.017	0.020	5.470e+00	-0.020	-0.025	1.000	-5.596e-03	-0.019	1.000	0.024	-4.036e+00
-1.807	1.596	-0.100	1.000	0.010	0.010	5.765e+00	-0.010	-0.024	1.000	-8.644e-03	-0.010	1.000	0.024	-4.150e+00
-1.607	1.596	-0.100	1.000	0.001	-0.001	5.962e+00	0.002	-0.024	1.000	-7.766e-03	-0.001	1.000	0.024	-4.295e+00

trial 1 output: 113 of 137

-1.406	1.596	-0.100	1.000	-0.012	-0.013	6.048e+00	0.012	-0.024	1.000	-7.681e-03	0.012	1.000	0.024	-4.472e+00
-1.206	1.596	-0.100	0.999	-0.026	-0.024	6.012e+00	0.024	-0.024	0.999	-9.237e-03	0.027	0.999	0.023	-4.671e+00
-1.006	1.596	-0.100	0.998	-0.04	-0.037	5.841e+00	0.031	-0.024	0.999	-2.284e-02	0.045	0.999	0.023	-4.877e+00
-0.806	1.596	-0.100	0.997	-0.065	-0.051	5.523e+00	0.050	-0.024	0.998	-1.938e-02	0.066	0.998	0.021	-5.074e+00
-0.606	1.596	-0.100	0.994	-0.088	-0.070	5.048e+00	0.068	-0.026	0.997	-2.852e-02	0.090	0.996	0.020	-5.245e+00
-0.405	1.596	-0.100	0.989	-0.115	-0.095	4.412e+00	0.092	-0.030	0.995	-4.326e-02	0.117	0.993	0.019	-5.380e+00
-0.205	1.596	-0.100	0.978	-0.149	-0.144	3.656e+00	0.140	-0.038	0.989	-1.134e-01	0.153	0.988	0.017	-5.481e+00
-0.005	1.596	-0.100	0.948	-0.211	-0.230	2.845e+00	0.231	-0.061	0.971	-2.421e-01	0.220	0.975	0.009	-5.464e+00
0.195	1.596	-0.100	0.961	-0.276	-0.012	2.213e+00	0.023	0.036	0.999	-1.670e-01	0.275	0.960	-0.041	-6.641e+00
0.395	1.596	-0.100	0.974	-0.215	0.071	1.473e+00	0.036	0.460	0.887	5.256e-01	0.223	0.862	-0.456	-1.172e+00
0.596	1.596	-0.100	0.953	0.237	0.130	1.379e+00	-0.233	0.160	0.958	-2.537e-02	0.195	0.957	-0.213	-9.455e-01
0.796	1.596	-0.100	0.928	0.377	0.107	1.906e+00	-0.112	-0.007	0.926	-4.290e-02	0.375	0.926	0.036	-7.475e-01
0.996	1.596	-0.100	0.916	0.397	0.054	2.381e+00	-0.048	-0.025	0.999	-2.444e-02	0.398	0.917	0.004	-5.586e-01
1.196	1.596	-0.100	0.921	0.389	0.024	2.698e+00	-0.020	-0.014	1.000	-1.654e-02	-0.390	0.921	0.006	-3.416e-01
1.396	1.596	-0.100	0.929	0.370	0.003	2.855e+00	-0.038	0.088	0.995	-1.303e-02	-0.368	0.925	-0.096	-1.043e-01
1.597	1.596	-0.100	0.941	0.337	-0.017	2.863e+00	-0.331	0.931	0.151	1.572e-01	0.067	-0.137	0.988	-1.823e-02
1.797	1.596	-0.100	0.960	0.277	-0.030	2.725e+00	-0.271	0.955	0.117	4.346e-01	0.069	-0.102	0	

		trial output: 116 of 137												
2.197	2.196	-0.100	0.549	0.830	-0.100	1.919e+006	0.825	-0.557	-0.090	9.253e-01	0.130	0.031	-6.920e-02	
2.397	2.196	-0.100	0.763	-0.629	-0.149	1.439e+006	0.561	0.759	-0.332	3.370e-01	0.322	0.170	0.31	-6.469e-02
2.598	2.196	-0.100	0.989	-0.109	-0.105	1.542e+006	0.110	0.403	0.993	9.788e-02	0.104	0.993	-0.054	-1.946e+006
2.798	2.196	-0.100	0.994	-0.111	-0.102	1.064e+006	-0.054	-0.002	-0.002	1.061e-02	-0.111	0.994	-0.001	-2.181e+006
2.998	2.196	-0.100	0.993	0.102	0.055	1.122e+006	-0.054	-0.009	0.998	3.624e-03	-0.102	0.995	0.003	-1.939e+006
3.398	2.196	-0.100	0.993	0.095	0.066	1.296e+006	-0.065	-0.012	0.998	-1.030e-03	-0.096	0.995	0.006	-1.738e+006
3.599	2.196	-0.100	0.994	0.091	0.065	1.528e+006	-0.064	-0.014	0.998	-3.540e-03	-0.092	0.996	0.008	-1.566e+006
3.799	2.196	-0.100	0.994	0.091	0.065	1.528e+006	-0.064	-0.014	0.998	-3.540e-03	-0.092	0.996	0.008	-1.566e+006
3.999	2.196	-0.100	0.995	0.081	0.055	2.073e+006	-0.054	-0.016	0.998	-5.959e-03	-0.082	0.997	0.011	-1.277e+006
4.199	2.196	-0.100	0.996	0.075	0.050	2.264e+006	-0.049	-0.016	0.999	-5.103e-03	-0.076	0.997	0.012	-1.156e+006
4.399	2.196	-0.100	0.997	0.069	0.044	2.660e+006	-0.043	-0.016	0.999	-4.907e-03	-0.069	0.998	0.013	-1.043e+006
4.600	2.196	-0.100	0.997	0.062	0.040	2.955e+006	-0.039	-0.016	0.999	-4.618e-03	-0.063	0.998	0.013	-9.430e+005
4.800	2.196	-0.100	0.997	0.057	0.039	3.250e+006	-0.037	-0.017	0.999	-4.329e-03	-0.061	0.999	0.013	-8.320e+005
5.000	2.196	-0.100	0.996	0.050	0.032	3.534e+006	-0.031	-0.015	0.999	-3.955e-03	-0.051	0.999	0.014	-7.714e+005
-5.010	2.396	-0.100	1.000	-0.015	-0.002	1.135e+001	0.001	-0.059	0.998	-3.454e-03	0.016	0.998	0.059	-8.619e+005
-4.810	2.396	-0.100	1.000	-0.014	-0.004	1.127e+010	0.003	-0.044	0.999	-6.022e-03	0.014	0.999	0.044	-2.718e+005
-4.610	2.396	-0.100	1.000	-0.013	-0.003	9.950e+009	0.009	-0.028	1.000	-1.062e-02	0.012	1.000	0.028	-9.931e+004
-4.409	2.396	-0.100	1.000	-0.010	-0.014	1.073e+011	0.013	-0.024	1.000	-1.452e-02	0.010	1.000	0.024	-6.351e+004
-4.209	2.396	-0.100	1.000	-0.008	-0.019	1.040e+011	0.019	-0.021	1.000	-2.035e-02	0.008	1.000	0.020	-8.026e+004
-3.809	2.396	-0.100	1.000	-0.005	-0.027	9.943e+006	0.027	-0.018	0.999	-2.893e-02	0.006	1.000	0.018	-9.998e+004
-3.609	2.396	-0.100	1.000	-0.004	-0.039	9.325e+006	0.039	-0.017	0.999	-3.624e-02	0.004	1.000	0.017	-1.232e+004
-3.408	2.396	-0.100	0.999	0.006	-0.051	8.548e+006	0.052	-0.018	0.999	-2.657e-02	-0.005	1.000	0.018	-1.506e+004
-3.208	2.396	-0.100	0.999	0.014	-0.042	7.570e+006	0.042	-0.024	0.999	-1.297e-01	-0.013	1.000	0.025	-1.829e+004
-3.008	2.396	-0.100	0.999	0.012	0.053									

trial 1 output: 1st of 137														
3.398	2.396	-0.100	0.995	0.072	0.074	1.646e+00	-0.074	-0.010	0.997	-1.814e-03	0.997	0.005	-1.718e+00	
3.599	2.396	-0.100	0.995	0.069	0.071	1.429e+00	-0.070	-0.011	0.997	-4.128e-03	-0.069	0.998	0.007	-1.556e+00
3.799	2.396	-0.100	0.996	0.065	0.065	1.708e+00	-0.064	-0.012	0.998	-5.173e-03	-0.065	0.998	0.008	-1.406e+00
3.999	2.396	-0.100	0.996	0.062	0.062	1.947e+00	-0.060	-0.012	0.998	-6.218e-03	-0.062	0.998	0.009	-1.256e+00
4.199	2.396	-0.100	0.997	0.055	0.052	2.297e+00	-0.051	-0.012	0.999	-5.436e-03	-0.055	0.998	0.009	-1.144e+00
4.399	2.396	-0.100	0.998	0.049	0.046	2.599e+00	-0.045	-0.012	0.999	-5.153e-03	-0.050	0.999	0.010	-1.033e+00
4.600	2.396	-0.100	0.998	0.044	0.041	2.900e+00	-0.040	-0.012	0.999	-4.848e-03	-0.044	0.999	0.010	-0.932e+00
4.800	2.396	-0.100	0.999	0.039	0.036	3.201e+00	-0.036	-0.011	0.999	-4.483e-03	-0.039	0.999	0.010	-0.830e+00
5.000	2.396	-0.100	0.999	0.034	0.033	3.502e+00	-0.031	-0.011	0.999	-4.118e-03	-0.035	0.999	0.010	-0.718e+00
-5.010	2.596	-0.100	1.000	-0.015	-0.002	1.136e+01	0.001	-0.061	0.999	-4.381e-03	0.016	0.998	0.061	-2.166e+00
-4.810	2.596	-0.100	1.000	-0.015	-0.004	1.128e+01	0.003	-0.046	0.998	-5.882e-03	0.015	0.998	0.064	-3.070e+00
-4.610	2.596	-0.100	1.000	-0.013	-0.006	1.117e+01	0.006	-0.037	0.999	-7.839e-03	0.014	0.999	0.037	-4.199e+00
-4.410	2.596	-0.100	1.000	-0.011	-0.008	1.106e+01	0.009	-0.029	0.999	-9.840e-03	0.013	0.999	0.037	-5.308e+00
-4.209	2.596	-0.100	1.000	-0.011	-0.014	1.075e+01	0.013	-0.025	1.000	-1.450e-02	0.011	1.000	0.025	-6.829e+00
-4.009	2.596	-0.100	1.000	-0.009	-0.020	1.042e+01	0.019	-0.021	1.000	-2.042e-02	0.009	1.000	0.021	-8.579e+00
-3.809	2.596	-0.100	1.000	-0.006	-0.028	9.983e+00	0.028	-0.018	0.999	-2.917e-02	0.006	1.000	0.018	-1.068e+01
-3.609	2.596	-0.100	0.999	-0.002	-0.039	9.407e+00	0.039	-0.014	0.999	-3.936e-02	0.002	1.000	0.014	-1.323e+01
-3.409	2.596	-0.100	0.999	-0.001	-0.047	8.832e+00	0.047	-0.011	0.999	-4.967e-02	0.001	1.000	0.011	-1.588e+01
-3.208	2.596	-0.100	0.999	0.016	-0.045	7.777e+00	0.045	0.001	0.999	-1.264e-01	-0.016	1.000	-0.000	-1.945e+01
-3.009	2.596	-0.100	0.999	0.025	-0.038	6.784e+00	-0.039	0.029	0.999	1.286e-01	-0.024	0.999	-0.029	-2.193e+01
-2.808	2.596	-0.100	0.974	-0.054	-0.222	6.045e+00	0.223	0.014	0.975	-0.951e-01	0.008	0.998	-0.026	-3.409e+01
-2.608	2.596	-0.100	0.996	0.002	-0.247	4.359e+00	0.246	-0.000	0.991	3.687e-02	0.002	0.998	0.054	-3.397e+01
-2.407	2.596	-0.100	0.999	-0.039	-0.277	4.633e+00	0.276	-0.020	0.999	1.194e-01	0.044	0.999	0.039	-4.051e+01
-2.207	2.596	-0.100	0.998	-0.051	0.022	5.585e+00	-0.022	-0.006	1.000	-1.881e-02	0.005	0.997	-0.051	

trial 1 output: 118 of 137														
4.600	2.596	-0.100	0.999	0.024	0.042	2.862e+06	-0.041	-0.007	0.999	-5.018e-03	-0.024	1.000	0.006	-9.239e-01
4.600	2.596	-0.100	0.999	0.030	0.027	3.656e+06	-0.037	-0.007	0.999	-4.826e-03	-0.024	1.000	0.006	-9.452e-01
5.000	2.596	-0.100	0.999	0.017	0.033	3.461e+06	-0.033	-0.006	0.999	-4.231e-03	-0.018	1.000	0.006	-7.543e-01
-5.010	2.796	-0.100	1.000	-0.016	-0.002	1.136e+01	0.001	-0.061	0.998	-4.249e-03	0.016	0.998	0.061	-2.523e-01
-4.810	2.796	-0.100	1.000	-0.015	-0.004	1.129e+01	0.003	-0.047	0.999	-5.765e-03	0.015	0.999	0.047	-3.443e-01
-4.610	2.796	-0.100	1.000	-0.014	-0.007	1.118e+01	0.006	-0.038	0.999	-7.741e-03	0.014	0.999	0.038	-4.527e-01
-4.290	2.796	-0.100	1.000	-0.013	-0.010	1.016e+01	0.010	-0.039	0.999	-1.046e-02	0.013	0.999	0.039	-5.603e-01
-4.209	2.796	-0.100	1.000	-0.012	-0.014	1.077e+01	0.014	-0.026	1.000	-1.449e-02	0.012	1.000	0.026	-7.311e-01
-4.009	2.796	-0.100	1.000	-0.010	-0.020	1.045e+01	0.020	-0.022	1.000	-2.048e-02	0.011	1.000	0.021	-9.107e-01
-3.809	2.796	-0.100	1.000	-0.009	-0.028	1.001e+01	0.028	-0.017	0.999	-2.934e-02	0.009	1.000	0.017	-1.128e+00
-3.796	2.796	-0.100	1.000	-0.009	-0.027	9.450e+00	0.027	-0.011	0.999	-3.964e-02	0.009	1.000	0.011	-1.251e+00
-3.408	2.796	-0.100	0.999	-0.009	-0.052	0.806e+00	0.052	-0.008	0.998	-1.040e-02	0.005	1.000	0.008	-0.707e+00
-3.208	2.796	-0.100	0.999	-0.002	-0.041	0.802e+00	0.041	0.024	0.999	1.298e-01	0.001	1.000	0.024	-1.996e+00
-3.008	2.796	-0.100	0.999	0.010	0.052	7.701e+00	-0.053	0.145	0.988	1.709e-01	-0.003	0.989	-0.145	-2.153e+00
-2.808	2.796	-0.100	0.975	0.131	0.178	1.019e+01	-0.202	0.857	0.474	1.425e+00	-0.090	-0.498	0.862	-2.239e+00
-2.796	2.796	-0.100	0.997	-0.077	0.021	1.016e+00	0.077	-0.021	0.999	-1.826e-02	0.073	0.999	0.021	-0.452e+00
-2.407	2.796	-0.100	0.997	-0.079	0.024	5.110e+00	0.023	-0.020	1.000	1.474e-01	0.079	0.997	0.018	-4.176e+00
-2.207	2.796	-0.100	0.997	-0.073	0.021	5.243e+00	-0.021	-0.003	1.000	1.900e-02	0.073	0.997	0.004	-4.078e+00
-2.007	2.796	-0.100	0.997	-0.070	0.020	5.520e+00	-0.020	0.001	1.000	-9.911e-03	0.079	0.997	0.000	-4.033e+00
-1.807	2.796	-0.100	0.996	-0.089	0.011	5.779e+00	0.111	0.003	1.000	-1.370e-02	0.089	0.996	-0.002	-4.033e+00
-1.796	2.796	-0.100	0.996	-0.089	0.011	5.779e+00	0.111	0.003	1.000	-1.370e-02	0.089	0.996	-0.002	-4.033e+00
-1.406	2.796	-0.100	0.994	-0.111	-0.009	6.056e+00	0.010	0.004	1.000	-1.199e-02	0.111	0.994	-0.005	-4.145e+00
-1.206	2.796	-0.100	0.993	-0.121	-0.019	6.042e+00	0.020	0.004	1.000	-1.280e-02	0.121	0.993	-0.006	-4.237e+00
-1.006	2.796	-0.100	0.991	-0.130	-0.029	5.917e+00	0.030	0.004	1.000	-1.501e-02	0.130			

trial 1 output: 119 of 137														
-4.409	2.997	-0.100	1.000	-0.015	-0.010	1.102e+01	0.059	-0.032	0.999	-1.044e-02	0.015	0.000	-6.244e-01	
-4.209	2.997	-0.100	1.000	-0.014	-0.010	1.078e+01	0.014	-0.026	1.000	-1.447e-02	0.014	0.000	0.026	-7.767e-01
-4.009	2.997	-0.100	1.000	-0.014	-0.020	1.046e+01	0.020	-0.021	1.000	-2.051e-02	0.013	0.000	0.021	-9.575e-01
-3.809	2.997	-0.100	1.000	-0.012	-0.028	1.007e+01	0.028	-0.017	0.999	-2.940e-02	0.013	0.000	0.017	-1.167e+00
-3.609	2.997	-0.100	0.999	-0.013	-0.039	9.476e+00	0.039	-0.012	0.999	-3.956e-02	0.013	0.000	0.011	-1.416e+00
-3.409	2.997	-0.100	0.999	-0.012	-0.051	8.959e+00	0.051	-0.009	0.999	-4.969e-02	0.013	0.000	0.009	-1.671e+00
-3.208	2.997	-0.100	0.999	-0.019	-0.036	7.889e+00	0.036	0.011	0.999	-1.314e-01	0.019	1.000	-0.011	-9.16e+00
-3.008	2.997	-0.100	0.997	-0.011	-0.077	7.249e+00	0.077	0.038	0.996	7.892e-02	0.014	0.999	-0.037	-1.955e+00
-2.808	2.997	-0.100	0.995	0.058	-0.080	7.320e+00	0.082	-0.035	0.996	-7.038e-01	-0.055	0.998	0.040	-2.565e+00
-2.608	2.997	-0.100	0.988	0.016	-0.154	6.384e+00	0.155	-0.035	0.987	2.080e-01	-0.016	0.999	0.037	-4.101e+00
-2.408	2.997	-0.100	0.992	-0.011	-0.251	5.459e+00	0.251	-0.008	0.992	-1.229e-01	-0.011	0.999	0.008	-5.636e+00
-2.207	2.997	-0.100	0.997	-0.072	0.020	5.383e+00	0.020	-0.002	1.000	1.913e-02	0.072	0.997	0.004	-4.033e+00
-2.007	2.997	-0.100	0.996	-0.089	0.020	5.575e+00	-0.020	0.004	1.000	-1.003e-02	0.089	0.996	-0.022	-3.934e+00
-1.807	2.997	-0.100	0.995	-0.103	0.011	5.814e+00	-0.011	0.006	1.000	-1.329e-02	0.100	0.995	-0.005	-3.909e+00
-1.607	2.997	-0.100	0.993	-0.110	0.009	6.002e+00	-0.009	0.000	1.000	-1.237e-02	0.116	0.993	-0.007	-3.936e+00
-1.406	2.997	-0.100	0.992	-0.109	0.009	6.180e+00	-0.009	0.008	1.000	-1.162e-02	0.126	0.992	-0.009	-3.969e+00
-1.206	2.997	-0.100	0.991	-0.136	-0.018	6.102e+00	0.019	0.007	1.000	-1.241e-02	0.136	0.991	-0.010	-4.083e+00
-1.006	2.997	-0.100	0.989	-0.144	-0.028	5.932e+00	0.029	0.007	1.000	-1.436e-02	0.144	0.989	-0.011	-4.180e+00
-0.806	2.997	-0.100	0.988	-0.152	-0.039	5.767e+00	0.040	0.006	0.999	-1.791e-02	0.152	0.988	-0.012	-4.279e+00
-0.606	2.997	-0.100	0.986	-0.160	-0.050	5.602e+00	0.050	0.005	0.998	-2.186e-02	0.160	0.986	-0.013	-4.379e+00
-0.405	2.997	-0.100	0.984	-0.163	-0.068	5.454e+00	0.070	0.004	0.998	-3.196e-02	0.162	0.987	-0.015	-4.493e+00
-0.205	2.997	-0.100	0.982	-0.166	-0.091	4.355e+00	0.092	0.001	0.996	-4.338e-02	0.165	0.988	-0.016	-4.504e+00
-0.005	2.997	-0.100	0.978	-0.164	-0.129	3.365e+00	0.130	-0.006	0.991	-8.814e-02	0.163	0.986	-0.015	-4.542e+00
0.195	2.997	-0.100	0.957	-0.151	-0.247	2.851e+00	0.246	-0.027	0.969	-2.343e-01	0.153	0.988	-0.011	-4.591

trial 1 output: 120 of 137

-3.208	3.197	-0.100	0.999	-0.019	-0.038	7.647e+00	0.038	-0.007	0.999	1.320e-01	0.019	1.000	0.007	-1.926e+00	
-3.008	3.197	-0.100	0.998	-0.007	0.067	6.919e+00	0.067	-0.014	0.998	9.784e-02	0.067	1.000	0.015	-2.281e+00	
-2.808	3.197	-0.100	0.992	0.025	-0.120	6.899e+00	0.120	-0.015	0.993	-7.434e-01	-0.023	1.000	0.018	-0.029e+00	
-2.608	3.197	-0.100	0.983	0.024	-0.179	5.720e+00	0.180	-0.009	0.984	1.666e-01	-0.022	1.000	0.013	-3.655e+00	
-2.407	3.197	-0.100	0.999	-0.027	-0.025	5.196e+00	0.025	-0.014	1.000	1.416e-01	0.027	1.000	0.014	-3.847e+00	
-2.207	3.197	-0.100	0.997	-0.021	0.021	5.283e+00	0.021	-0.002	1.000	1.023e-02	0.021	1.000	0.010	-3.526e+00	
-2.007	3.197	-0.100	0.995	-0.100	0.021	5.556e+00	-0.020	0.006	1.000	-1.037e-02	0.100	0.995	-0.004	-3.753e+00	
-1.807	3.197	-0.100	0.993	-0.118	0.012	5.833e+00	-0.011	0.009	1.000	-1.333e-02	0.118	0.993	-0.008	-3.743e+00	
-1.607	3.197	-0.100	0.991	-0.132	0.002	6.043e+00	-0.000	0.010	1.000	-1.221e-02	0.132	0.991	-0.010	-3.772e+00	
-1.406	3.197	-0.100	0.990	-0.143	-0.008	6.161e+00	0.010	0.011	1.000	-1.146e-02	0.143	0.990	-0.012	-3.832e+00	
-1.206	3.197	-0.100	0.988	-0.152	-0.017	6.177e+00	0.019	0.011	1.000	-1.185e-02	0.152	0.988	-0.014	-3.914e+00	
-1.006	3.197	-0.100	0.987	-0.159	-0.027	6.084e+00	0.029	0.011	1.000	-1.352e-02	0.159	0.987	-0.015	-4.007e+00	
-0.806	3.197	-0.100	0.986	-0.166	-0.037	5.877e+00	0.039	0.010	0.999	-1.668e-02	0.166	0.986	-0.016	-4.105e+00	
-0.606	3.197	-0.100	0.984	-0.170	-0.049	5.551e+00	0.051	0.009	0.999	-2.184e-02	0.170	0.985	-0.018	-4.197e+00	
-0.405	3.197	-0.100	0.986	-0.173	-0.065	5.099e+00	0.067	0.008	0.998	-2.948e-02	0.173	0.985	-0.019	-4.277e+00	
-0.205	3.197	-0.100	0.981	-0.174	-0.086	4.514e+00	0.088	0.005	0.996	-3.915e-02	0.174	0.985	-0.022	-4.338e+00	
-0.005	3.197	-0.100	0.978	-0.174	-0.119	3.800e+00	0.122	0.006	0.993	-6.851e-02	0.172	0.985	-0.027	-4.378e+00	
0.195	3.197	-0.100	0.962	-0.178	-0.208	2.965e+00	0.214	0.016	0.984	-9.777e-02	0.170	0.984	-0.054	-4.390e+00	
0.395	3.197	-0.100	0.877	-0.213	-0.432	1.806e+00	0.458	0.091	0.884	-1.028e+01	0.149	0.973	-0.177	-4.505e+00	
0.596	3.197	-0.100	0.718	-0.254	-0.648	3.696e+00	0.667	-0.519	0.535	1.878e+00	0.201	0.816	0.542	-2.146e+00	
0.796	3.197	-0.100	0.990	-0.097	0.105	7.999e-01	-0.113	-0.079	0.990	-1.516e-03	0.088	0.992	0.089	-1.146e+00	
0.996	3.197	-0.100	0.987	-0.072	0.142	7.675e-01	-0.149	-0.102	0.984	-3.276e-02	0.057	0.992	0.111	-4.496e-01	
1.196	3.197	-0.100	0.996	-0.051	0.175	9.289e-01	0.064	-0.080	0.980	-1.190e-02	-0.064	0.194	0.979	-2.348e-02	
1.396	3.197	-0.100	1.000	0.007	0.070	1.083e+00	-0.007	0.999	-1.033	5.987e-02	0.007	0.999	-0.002	1.678e-02	
1.597	3.197	-0.100	0.918	0.395	-0.026	1.198e+00	-0.395	0.932	0.18	-0.005	1.004e+00	0.022	0.15	1.000	-1.577e-02
1.797	3.197	-0.100	0.434	0.900	-0.039	1.543e+00	0.899	-0.436	-0.052	1.065e+00	0.064	0.012	0.998	-2.023e-02	
1.997	3.197	-0.100	0.339	0.939	-0.053	1.998e+00	0.935	-0.343	-0.094	8.802e-01	0.106	0.018	0.994	-3.025e-02	
2.197	3.197	-0.100	0.183	0.981	-0.060	2.285e+00	0.973	-0.189	-0.135	6.051e-01	0.144	0.034	0.989	-5.482e-02	
2.397	3.197	-0.100	0.546	0.836	-0.056	7.756e+00	0.501	0.272	-0.822	4.137e-02	0.176	0.042	0.999	-1.117e-01	
2.598	3.197	-0.100	0.981	-0.173	-0.093	1.547e+00	0.100	0.033	0.994	5.042e-02	0.169	0.984	-0.050	-2.079e+00	
2.798	3.197	-0.100	0.998	0.042	-0.049	1.115e+00	0.049	0.007	0.999	2.116e-02	-0.042	0.999	-0.005	-2.589e+00	
2.998	3.197	-0.100	0.999	0.040	0.018	8.604e-01	-0.018	-0.006	1.000	1.262e-02	-0.040	0.999	0.005	-2.292e+00	
3.198	3.197	-0.100	0.998	0.002	0.067	8.918e-01	-0.067	0.998	3.818e-03	-0.002	1.000	0.005	-1.995e+00		
3.398	3.197	-0.100	0.996	-0.024	0.080	1.071e+00	-0.080	-0.000	0.997	-2.045e-03	0.024	1.000	0.002	-1.758e+00	
3.599	3.197	-0.100	0.996	-0.037	0.077	1.321e+00	-0.077	0.003	0.997	-4.807e-03	0.037	0.999	-0.000	-1.563e+00	
3.799	3.197	-0.100	0.997	-0.042	0.069	1.606e+00	-0.069	0.005	0.998	-5.829e-03	0.042	0.999	-0.002	-1.397e+00	
3.999	3.197	-0.100	0.997	-0.044	0.061	1.911e+00	-0.061	0.006	0.998	-6.009e-03	0.045	0.999	-0.004	-1.252e+00	
4.199	3.197	-0.100	0.998	-0.044	0.054	2.224e+00	-0.054	0.007	0.999	-6.805e-03	0.044	0.999	-0.001	-1.117e+00	
4.399	3.197	-0.100	0.998	-0.043	0.047	2.540e+00	-0.047	0.008	0.999	-5.439e-03	0.044	0.999	-0.006	-1.015e+00	
4.600	3.197	-0.100	0.998	-0.042	0.042	2.854e+00	-0.041	0.008	0.999	-5.017e-03	0.042	0.999	-0.007	-9.163e-01	
4.800	3.197	-0.100	0.999	-0.040	0.037	3.163e+00	-0.037	0.009	0.999	-4.591e-03	0.040	0.999	-0.007	-8.284e-01	
5.000	3.197	-0.100	0.999	-0.038	0.033	3.465e+00	-0.033	0.009	0.999	-4.185e-03	0.038	0.999	-0.008	-7.497e-01	
-5.010	3.397	-0.100	1.000	-0.020	-0.003	1.139e+01	0.002	0.998	0.054	-1.013e-01	0.020	0.998	-0.004	-3.752e+00	
-4.810	3.397	-0.100	1.000	-0.020	-0.005	1.132e+01	0.004	-0.044	0.999	-5.552e-03	0.020	0.999	0.044	-4.594e-01	
-4.610	3.397	-0.100	1.000	-0.019	-0.007	1.121e+01	0.006	-0.037	0.999	-5.764e-03	0.019	0.999	0.037	-5.773e-01	
-4.409	3.397	-0.100	1.000	-0.019	-0.010	1.104e+01	0.010	-0.031	0.999	-1.037e-02	0.019	0.999	0.031	-7.127e-01	
-4.209	3.397	-0.100	1.000	-0.018	-0.015	1.080e+01	0.014	-0.026	1.000	-1.445e-02	0.018	0.999	0.026	-8.027e-01	
-4.009	3.397	-0.100	1.000	-0.017	-0.020	1.047e+01	0.020	-0.022	1.000	-2.055e-02	0.017	1.000	0.022	-1.043e+00	
-3.809	3.397	-0.100	0.999	-0.015	-0.029	1.000e+01	0.028	-0.018	0.999	-2.951e-02	0.016	1.000	0.018	-1.239e+00	
-3.609	3.397	-0.100	0.999	-0.013	-0.040	9.369e+00	0.040	-0.015	0.999	-3.974e-02	0.014	1.000	0.014	-1.456e+00	
-3.408	3.397	-0.100	0.999	-0.011	-0.053	8.520e+00	0.053	-0.014	0.999	-2.767e-02	0.011	1.000	0.010	-1.690e+00	
-3.208	3.397	-0.100	0.999	-0.010	-0.061	7.447e+00	0.061	-0.006	0.998	-3.957e-02	0.011	1.000	0.006	-2.006e+00	
-3.008	3.397	-0.100	0.998	-0.015	-0.059	6.582e+00	-0.059	0.000	0.998	1.072e-01	0.015	1.000	0.001	-2.470e+00	
-2.808	3.397	-0.100	0.989	-0.002	-0.146	6.440e+00	0.146	-0.010	0.989	-7.847e-01	-0.000	1.000	0.001	-2.385e+00	
-2.608	3.397	-0.100	0.977	0.017	-0.214	5.024e+00	0.214	-0.017	0.977	1.201e+01	-0.013	1.000	0.020	-3.480e+00	
-2.407	3.397	-0.100	0.999	-0.014	-0.026	6.497e+00	0.026	-0.013	0.999	-4.008e-02	0.014	0.999	0.018	-3.453e+00	
-2.207	3.397	-0.100	0.996	-0.022	0.023	5.096e+00	-0.023	-0.000	1.000	1.690e-02	0.021	0.996	0.002	-3.513e+00	

trial 1 output: 121 of 137

-2.007	3.397	-0.100	0.993	-0.118	0.022	5.519e+00	-0.021	0.009	1.000	-1.077e-02	0.119	0.993	-0.006	-3.526e+00
-1.807	3.397	-0.100	0.991	-0.136	0.012	5.858e+00	-0.012	0.012	1.000	-1.328e-02	0.136	0.991	-0.011	-3.556e+00
-1.607	3.397	-0.100	0.989	-0.149	0.002	6.094e+00	-0.000	0.014	1.000	-1.192e-02	0.149	0.989	-0.014	-3.592e+00
-1.406	3.397	-0.100	0.987	-0.160	-0.007	6.233e+00	0.010	0.014	1.000	-1.097e-02	0.160	0.987	-0.016	-3.651e+00
-1.206	3.397	-0.100	0.986	-0.168	-0.016	6.267e+00	0.019	0.014	1.000	-1.112e-02	0.168	0.986	-0.017	-3.731e+00
-1.006	3.397	-0.100	0.984	-0.175	-0.025	6.194e+00	0.028	0.014	0.999	-1.249e-02	0.174	0.984	-0.019	-3.823e+00
-0.806	3.397	-0.100	0.983	-0.180	-0.035	6.007e+00	0.038	0.014	0.999	-1.525e-02	0.179	0.984	-0.021	-3.919e+00
-0.606	3.397	-0.100	0.982	-0.183	-0.047	5.702e+00	0.050	0.013	0.999	-1.984e-02	0.182	0.983	-0.022	-4.011e+00
-0.405	3.397	-0.100	0.981	-0.184	-0.061	5.271e+00	0.065	0.013	0.998	-2.683e-02	0.183	0.983	-0.024	-4.092e+00
-0.205	3.397	-0.100	0.980	-0.182	-0.080	4.705e+00	0.084	0.012	0.996	-3.572e-02	0.181	0.983	-0.027	-4.151e+00
-0.005	3.397	-0.100	0.979	-0.176	-0.106	3.929e+00	0.110	0.012	0.995	-4.717e-02	0.176	0.982	-0.030	-4.175e+00
0.195	3.397	-0.100	0.974	-0.157	-0.163	1.414e+00	0.167	0.007	0.986	-1.866e-01	0.157	0.986	-0.033	-4.143e+00
0.395	3.397	-0.100	0.957	-0.094	-0.276	2.143e+00	0.276	-0.014	0.961	-1.945e-01	0.094	0.995	-0.013	-4.055e+00
0.596	3.397	-0.100	0.976	-0.055	-0.210	9.644e-01	0.204	-0.092	0.975	5.119e-02	0.073	0.994	0.075	-2.855e+00
0.796	3.397	-0.100	0.978	-0.027	0.207	4.934e-01	-0.209	-0.165	0.964	4.990e-03	-0.009	0.986	0.167	-1.330e+00
0.996	3.397	-0.100	0.974	-0.136	0.180	7.756e-01	-0.197	-0.124	0.972	-3.636e-02	0.136	0.972	-0.149	-3.194e+00
1.196	3.													

trial 1 output: 124 of 137

1.597	3.998	-0.100	0.785	-0.619	0.010	1.563e+00	0.618	0.782	-0.082	3.858e-01	0.042	0.071	0.997	-2.064e-02
1.797	3.998	-0.100	-0.585	0.811	0.009	1.722e+00	0.810	0.585	-0.054	7.321e-01	0.049	0.025	0.999	-2.087e-02
1.997	3.998	-0.100	-0.253	0.968	0.007	1.956e+00	0.965	0.253	-0.070	7.534e-01	0.069	0.011	0.998	-2.632e-02
2.197	3.998	-0.100	-0.053	0.999	0.000	1.937e+00	0.991	0.053	-0.120	5.451e-01	0.120	0.006	0.999	-4.848e-02
2.397	3.998	-0.100	0.368	-0.248	0.000	1.226e+00	0.245	0.368	-0.045	8.116e-01	0.245	0.059	0.998	-2.226e-02
2.598	3.998	-0.100	0.992	-0.083	-0.090	1.396e+00	0.086	-0.051	0.995	5.810e-02	0.987	0.995	0.043	-1.522e-02
2.798	3.998	-0.100	0.994	-0.103	-0.032	1.452e+00	0.030	-0.018	0.999	2.472e-02	0.103	0.995	0.015	-2.394e-02
2.998	3.998	-0.100	0.993	-0.120	0.013	1.257e+00	-0.014	-0.006	1.000	1.293e-02	0.119	0.993	0.008	-2.285e-02
3.198	3.998	-0.100	0.989	-0.137	0.048	1.245e+00	-0.047	-0.017	0.999	4.707e-03	0.137	0.991	0.002	-2.007e+00
3.398	3.998	-0.100	0.987	-0.149	0.060	1.404e+00	-0.059	-0.012	0.998	-5.249e-04	0.150	0.989	-0.001	-1.770e+00
3.599	3.998	-0.100	0.986	-0.155	0.060	1.642e+00	-0.058	0.018	0.998	-3.059e-03	0.155	0.988	-0.008	-1.581e+00
3.799	3.998	-0.100	0.987	-0.154	0.056	1.924e+00	-0.053	0.021	0.998	-4.075e-03	0.155	0.988	-0.012	-1.424e+00
3.999	3.998	-0.100	0.988	-0.149	0.050	2.222e+00	-0.048	0.023	0.999	-4.362e-03	0.149	0.989	-0.015	-1.289e+00
4.199	3.998	-0.100	0.989	-0.141	0.045	2.525e+00	-0.042	0.024	0.999	-4.313e-03	0.142	0.990	-0.018	-1.168e+00
4.399	3.998	-0.100	0.990	-0.132	0.040	2.827e+00	-0.038	0.025	0.999	-4.115e-03	0.133	0.991	-0.025	-1.060e+00
4.600	3.998	-0.100	0.992	-0.123	0.036	3.126e+00	-0.033	0.025	0.999	-3.855e-03	0.124	0.992	-0.022	-9.630e-01
4.800	3.998	-0.100	0.993	-0.114	0.033	3.418e+00	-0.030	0.026	0.999	-3.577e-03	0.115	0.993	-0.021	-8.750e-01
5.000	3.998	-0.100	0.994	-0.105	0.029	3.703e+00	-0.027	0.026	0.999	-3.301e-03	0.106	0.994	-0.023	-7.954e-01
-5.010	4.198	-0.100	1.000	-0.031	-0.003	1.140e+01	0.002	-0.040	0.999	-4.038e-03	0.031	0.999	0.040	-4.670e-01
-4.810	4.198	-0.100	0.999	-0.032	-0.005	1.134e+01	0.004	-0.033	0.999	-5.529e-03	0.032	0.999	0.032	-5.824e-01
-4.610	4.198	-0.100	0.999	-0.033	-0.008	1.124e+01	0.007	-0.027	1.000	-7.536e-03	0.033	0.999	0.027	-7.149e-01
-4.410	4.198	-0.100	0.999	-0.033	-0.011	1.107e+01	0.011	-0.022	1.000	-1.036e-02	0.033	0.999	0.022	-8.662e-01
-4.209	4.198	-0.100	0.999	-0.033	-0.016	1.084e+01	0.015	-0.019	1.000	-1.451e-02	0.033	0.999	0.018	-1.038e+00
-3.809	4.198	-0.100	0.999	-0.033	-0.030	1.006e+01	0.030	-0.011	0.999	-2.989e-02	0.033	0.999	0.010	-1.454e+00
-3.609	4.198	-0.100	0.999	-0.033	-0.042	9.471e+00	0.042	-0.008	0.999	-4.047e-02	0.036	0.999	0.006	-1.704e+00
-3.409	4.198	-0.100	0.998	-0.036	-0.054	8.718e+00	0.054	-0.003	0.999	-2.888e-02	0.036	0.999	0.001	-1.977e+00
-3.208	4.198	-0.100	0.998	-0.038	-0.063	7.809e+00	0.063	-0.004	0.999	-1.277e-01	0.038	0.999	-0.004	-2.227e+00
-3.008	4.198	-0.100	0.998	-0.026	0.057	7.056e+00	-0.057	0.004	0.998	1.050e-01	0.026	1.000	-0.003	-2.402e+00
-2.808	4.198	-0.100	0.993	0.018	-0.119	6.848e+00	0.120	-0.026	0.992	-7.249e-01	-0.014	1.000	0.028	-2.634e+00
-2.608	4.198	-0.100	0.984	0.022	-0.176	5.542e+00	0.177	-0.029	0.984	1.684e-01	-0.016	0.999	0.032	-2.780e+00
-2.407	4.198	-0.100	0.998	0.064	-0.019	5.076e+00	0.017	-0.030	0.999	1.380e-01	0.064	0.998	0.029	-2.787e+00
-2.207	4.198	-0.100	0.990	-0.142	0.025	5.316e+00	-0.025	0.002	1.000	1.487e-02	0.142	0.990	0.002	-2.738e+00
-2.007	4.198	-0.100	0.982	-0.186	0.024	5.740e+00	-0.020	0.020	1.000	-1.094e-02	0.187	0.982	-0.016	-2.715e+00
-1.807	4.198	-0.100	0.977	-0.211	0.014	6.147e+00	-0.008	0.028	1.000	-1.195e-02	0.211	0.977	-0.026	-2.718e+00
-1.607	4.198	-0.100	0.974	-0.226	0.004	6.476e+00	0.003	0.032	0.999	-9.175e-03	0.226	0.974	-0.032	-2.749e+00
-1.406	4.198	-0.100	0.972	-0.236	-0.004	6.707e+00	0.013	0.034	0.999	-6.923e-03	0.235	0.971	-0.036	-2.803e+00
-1.206	4.198	-0.100	0.970	-0.242	-0.012	6.837e+00	0.021	0.036	0.999	-5.601e-03	0.241	0.970	-0.040	-2.874e+00
-1.006	4.198	-0.100	0.969	-0.244	-0.020	6.859e+00	0.030	0.037	0.999	-5.155e-03	0.243	0.969	-0.043	-2.956e+00
-0.806	4.198	-0.100	0.969	-0.244	-0.028	6.770e+00	0.038	0.039	0.998	-5.553e-03	0.243	0.969	-0.047	-3.042e+00
-0.606	4.198	-0.100	0.970	-0.241	-0.037	6.563e+00	0.046	0.041	0.998	-6.950e-03	0.239	0.970	-0.052	-3.125e+00
-0.405	4.198	-0.100	0.971	-0.235	-0.047	6.230e+00	0.059	0.044	0.997	-9.756e-03	0.232	0.971	-0.057	-3.206e+00
-0.205	4.198	-0.100	0.973	-0.224	-0.061	5.762e+00	0.074	0.048	0.996	-1.379e-02	0.220	0.973	-0.063	-3.262e+00
-0.005	4.198	-0.100	0.975	-0.207	-0.080	5.151e+00	0.093	0.054	0.994	-1.642e-02	0.202	0.977	-0.072	-3.310e+00
0.195	4.198	-0.100	0.977	-0.184	-0.111	4.405e+00	0.126	0.072	0.989	-3.273e-02	0.174	0.988	-0.093	-3.364e+00
0.395	4.198	-0.100	0.965	-0.155	-0.210	1.570e+00	0.236	0.072	0.979	-5.729e-02	0.112	0.973	-0.203	-3.412e+00
0.596	4.198	-0.100	0.748	-0.279	-0.602	2.639e+00	0.660	0.415	0.627	2.086e+00	-0.075	0.866	-0.494	-5.478e+00
0.796	4.198	-0.100	0.493	-0.620	0.610	3.502e+00	-0.858	-0.230	0.460	5.636e-01	0.145	0.750	0.645	-5.890e+00
0.996	4.198	-0.100	0.956	-0.285	0.063	1.280e+00	-0.116	-0.175	0.978	8.455e-02	0.268	0.942	0.200	-1.867e+00
1.196	4.198	-0.100	0.919	-0.381	0.099	1.254e+00	-0.154	-0.117	0.999	-6.269e-03	0.362	0.917	0.166	-9.512e-01
1.396	4.198	-0.100	0.876	-0.479	0.051	1.527e+00	-0.150	-0.171	0.974	-6.096e-02	0.457	0.861	0.222	-1.790e+00
1.597	4.198	-0.100	0.839	-0.544	0.011	1.744e+00	0.527	0.807	-0.266	1.909e-01	0.135	0.229	0.964	-3.418e-02
1.797	4.198	-0.100	0.788	-0.616	-0.013	1.784e+00	0.611	0.785	-0.101	7.206e-01	0.073	0.072	0.995	-2.535e-02
1.997	4.198	-0.100	-0.498	0.867	-0.003	1.691e+00	0.863	0.496	-0.099	1.227e+00	0.085	0.052	0.995	-3.089e-02
2.197	4.198	-0.100	-0.046	0.998	-0.048	9.664e+00	0.985	-0.042	0.995	-1.044e+00	0.988	0.052	0.995	-1.044e+00
2.397	4.198	-0.100	-0.689	0.763	0.047	1.988e+00	0.705	-0.684	0.189	2.656e-01	0.169	0.097	0.981	-2.142e-02
2.598	4.198	-0.100	0.976	-0.205	-0.070	2.089e+00	0.076	0.018	0.997	6.025e-02	0.204	0.979	-0.033	-2.003e+00

trial 1 output: 125 of 137

2.798	4.198	-0.100	0.998	-0.041	-0.037	1.583e+00	0.037	-0.007	0.999	2.522e-02	0.041	0.999	0.005	-2.488e-02
2.998	4.198	-0.100	0.997	-0.071	0.013	1.289e+00	-0.014	-0.010	1.000	1.297e-02	0.071	0.997	0.011	-2.205e+00
3.198	4.198	-0.100	0.991	-0.127	0.046	1.329e+00	-0.046	0.001	0.999	4.656e-03	0.127	0.992	0.005	-1.943e+00
3.398	4.198	-0.100	0.986	-0.160	0.055	1.527e+00	-0.054	0.012	0.998	-3.681e-04	0.160	0.987	-0.003	-1.744e+00
3.598	4.198	-0.100	0.984	-0.172	0.055	1.787e+00	-0.052	0.018	0.998	-2.806e-03	0.173	0.985	-0.009	-1.579e+00
3.798	4.198	-0.100	0.984	-0.173	0.051	2.071e+00	-0.048	0.022	0.999	-3.578e-03	0.174	0.985	-0.014	-1.455e+00
3.999	4.198	-0.100	0.985	-0.168	0.047	2.364e+00	-0.043	0.025	0.999	-3.825e-03	0.168	0.986	-0.017	-1.305e+00
4.199	4.198	-0.100	0.986	-0.159	0.042	2.659e+00	-0.038	0.026	0.999	-3.824e-03	0.160	0.987	-0.020	-1.188e+00
4.399	4.198	-0.100	0.988	-0.149	0.038	2.953e+00	-0.034	0.027	0.999	-3.682e-03	0.150	0.988	-0.022	-1.081e+00
4.600	4.198	-0.100	0.990	-0.139	0.034	3.242e+00	-0.031	0.028	0.999	-3.478e-03	0.139	0.989	-0.023	-9.837e-01
4.800	4.198	-0.100	0.991	-0.128	0.031	3.526e+00	-0.028	0.028	0.999	-3.245e-03	0.129	0.991	-0.024	-8.936e-01
5.000	4.198	-0.100	0.993	-0.119	0.028	3.802e+00	-0.025	0.028	0.999	-3.016e-03	0.119	0.993	-0.025	-8.148e-01
-5.010	4.398	-0.100	0.999	-0.035	-0.004	1.140e+01	0.002	-0.035	0.999	-4.062e-03	0.035	0.999	0.035	-4.797e-01
-4.810	4.398	-0.100	0.998	-0.036	-0.006	1.134e+01	0.005	-0.028	1.000	-5.537e-03	0.036	0.999	0.028	-5.974e-01
-4.610	4.398	-0.100	0.999	-0.037	-0.008	1.123e+01	0.007	-0.023	1.000	-7.527e-03	0.037	0.999	0.023	-7.149e-01
-4.409	4.398	-0.100	0.999	-0.038	-0.012	1.107e+01	0.011	-0.019	1.000	-1.035e-02	0.038	0.999	0.018	-1.068e+00
-4.209	4.398	-0.100	0.999	-0.038	-0.016	1.084e+01	0.015	-0.015	1.000	-1.448e-02	0.038	0.999	0.015	-1.061e+00
-4.009	4.398	-0.100	0.999	-0.038	-0.022	1.050e+01	0.022	-0.012	1.000	-2.071e-02	0.038			

trial 1 output: 128 of 137

-3.809	4.998	-0.100	0.998	-0.055	-0.032	1.010e+01	0.032	0.006	0.999	-2.920e-02	0.055	0.998	-0.007	-1.540e+00
-3.609	4.998	-0.100	0.998	-0.051	-0.043	9.557e+00	0.044	0.008	0.999	-1.973e-02	0.051	0.999	-0.010	-1.837e+00
-3.408	4.998	-0.100	0.998	-0.043	-0.055	8.903e+00	0.056	0.012	0.998	-2.763e-02	0.042	0.999	-0.015	-2.159e+00
-3.208	4.998	-0.100	0.999	-0.032	-0.041	8.220e+00	0.042	0.024	0.999	-1.297e-01	0.031	0.999	-0.026	-2.403e+00
-3.008	4.998	-0.100	0.998	-0.028	0.063	7.936e+00	-0.061	0.062	0.996	1.062e-01	0.031	0.998	-0.060	-2.225e+00
-2.808	4.998	-0.100	0.999	0.009	-0.050	7.940e+00	-0.051	-0.111	0.999	-6.271e-01	-0.004	0.994	-0.126	-2.106e+00
-2.608	4.998	-0.100	0.993	0.008	-0.115	6.970e+00	0.115	-0.135	0.984	2.739e-01	0.007	0.991	0.135	-2.127e+00
-2.407	4.998	-0.100	0.991	-0.136	-0.008	5.969e+00	-0.001	-0.069	0.998	1.421e-01	0.136	0.988	0.069	-2.189e+00
-2.207	4.998	-0.100	0.973	-0.230	0.027	8.896e+00	-0.028	-0.001	1.000	1.221e-02	0.230	0.973	0.007	-1.932e+00
-2.007	4.998	-0.100	0.959	-0.281	0.025	6.301e+00	-0.015	0.039	0.999	1.069e-02	0.282	0.959	-0.033	-1.815e+00
-1.807	4.998	-0.100	0.952	-0.307	0.016	6.802e+00	0.004	0.058	0.998	-8.009e-03	0.307	0.950	-0.055	-1.788e+00
-1.607	4.998	-0.100	0.948	-0.319	0.007	7.256e+00	0.015	0.069	0.998	-2.197e-03	0.318	0.945	-0.070	-1.798e+00
-1.406	4.998	-0.100	0.946	-0.324	0.000	7.613e+00	0.026	0.078	0.997	3.565e-03	0.323	0.943	-0.082	-1.820e+00
-1.206	4.998	-0.100	0.946	-0.324	-0.006	7.866e+00	0.037	0.088	0.995	9.343e-03	0.322	0.942	-0.095	-1.842e+00
-1.006	4.998	-0.100	0.947	-0.322	-0.012	8.010e+00	0.047	0.100	0.994	1.595e-02	0.319	0.941	-0.110	-1.857e+00
-0.806	4.998	-0.100	0.948	-0.317	-0.018	8.050e+00	0.057	0.116	0.992	2.449e-02	0.312	0.941	-0.128	-1.860e+00
-0.606	4.998	-0.100	0.951	-0.308	-0.024	7.985e+00	0.069	0.136	0.988	3.642e-02	0.301	0.942	-0.151	-1.849e+00
-0.405	4.998	-0.100	0.955	-0.296	-0.031	7.811e+00	0.083	0.164	0.983	5.393e-02	0.285	0.941	-0.181	-1.821e+00
-0.205	4.998	-0.100	0.960	-0.277	-0.040	7.516e+00	0.098	0.200	0.975	8.078e-02	0.262	0.940	-0.219	-1.777e+00
-0.005	4.998	-0.100	0.967	-0.249	-0.050	7.082e+00	0.114	0.249	0.962	1.247e-01	0.227	0.936	-0.270	-1.718e+00
0.195	4.998	-0.100	0.977	-0.207	-0.061	6.474e+00	0.126	0.314	0.941	1.932e-01	0.175	0.927	-0.332	-1.644e+00
0.395	4.998	-0.100	0.988	-0.130	-0.081	5.659e+00	0.126	0.394	0.910	2.295e-01	0.086	0.910	-0.406	-1.573e+00
0.596	4.998	-0.100	0.982	-0.045	-0.184	4.620e+00	0.147	0.427	0.892	1.460e-01	-0.119	0.903	-0.412	-1.731e+00
0.796	4.998	-0.100	0.807	0.257	-0.531	3.475e+00	0.471	0.262	0.842	-4.931e-01	-0.356	0.930	-0.001	-2.759e+00
0.996	4.998	-0.100	0.554	0.398	-0.737	1.416e+00	0.830	-0.183	0.527	-1.345e-01	-0.069	0.903	0.423	-4.284e+00
1.196	4.998	-0.100	0.860	-0.461	0.219	1.801e+00	-0.305	-0.121	0.945	8.430e-03	0.409	0.879	0.244	-2.281e+00
1.396	4.998	-0.100	0.860	-0.508	0.053	1.184e+00	-0.096	-0.060	0.994	-1.467e-02	0.502	0.859	0.011	-1.982e+00
1.597	4.998	-0.100	0.862	-0.508	0.008	3.755e+00	-0.098	-0.048	0.998	-1.602e-02	0.506	0.860	0.060	-1.571e+00
1.797	4.998	-0.100	0.876	-0.481	-0.016	3.920e+00	-0.081	-0.054	0.998	-1.784e-02	0.481	0.875	-0.103	-0.902e+00
1.997	4.998	-0.100	0.905	-0.425	-0.035	3.583e+00	-0.006	-0.095	0.995	-2.279e-02	0.426	0.900	0.088	-4.787e-01
2.197	4.998	-0.100	0.961	-0.269	-0.066	2.904e+00	0.245	0.938	0.928	8.286e-02	0.128	0.220	0.967	7.619e-02
2.397	4.998	-0.100	0.984	-0.037	-0.176	2.563e+00	0.148	-0.393	0.908	-8.901e-02	0.102	0.919	0.381	-3.357e-01
2.598	4.998	-0.100	0.982	-0.115	-0.090	2.461e+00	0.082	-0.101	0.991	2.045e-01	0.125	0.980	0.917	-0.427e+00
2.798	4.998	-0.100	0.982	-0.187	-0.014	2.485e+00	0.006	-0.035	0.999	3.251e-02	0.187	0.982	0.032	-2.057e+00
2.998	4.998	-0.100	0.978	-0.207	0.013	2.390e+00	-0.016	-0.011	1.000	1.026e-02	0.207	0.978	0.014	-2.069e+00
3.198	4.998	-0.100	0.976	-0.215	0.027	2.397e+00	-0.027	0.002	1.000	3.126e-03	0.215	0.977	0.004	-1.916e+00
3.398	4.998	-0.100	0.975	-0.218	0.033	2.515e+00	-0.031	0.011	0.999	-5.790e-05	0.218	0.976	-0.004	-1.761e+00
3.598	4.998	-0.100	0.976	-0.217	0.034	2.699e+00	-0.031	0.017	0.999	-1.506e-03	0.218	0.976	-0.010	-1.624e+00
3.799	4.998	-0.100	0.977	-0.212	0.034	2.913e+00	-0.030	0.022	0.999	-2.126e-03	0.213	0.977	-0.015	-1.499e+00
3.999	4.998	-0.100	0.978	-0.205	0.032	3.142e+00	-0.028	0.025	0.999	-2.357e-03	0.205	0.978	-0.019	-1.384e+00
4.199	4.998	-0.100	0.980	-0.195	0.030	3.376e+00	-0.026	0.027	0.999	-2.404e-03	0.196	0.980	-0.022	-1.274e+00
4.399	4.998	-0.100	0.982	-0.185	0.029	3.612e+00	-0.022	0.021	0.999	-2.353e-03	0.185	0.982	-0.024	-1.172e+00
4.600	4.998	-0.100	0.984	-0.174	0.027	3.848e+00	-0.022	0.030	0.999	-2.278e-03	0.174	0.984	-0.026	-1.075e+00
4.800	4.998	-0.100	0.986	-0.163	0.025	4.082e+00	-0.020	0.031	0.999	-2.171e-03	0.164	0.986	-0.028	-9.854e-01
5.000	4.998	-0.100	0.988	-0.152	0.023	4.312e+00	-0.018	0.032	0.999	-2.053e-03	0.153	0.988	-0.029	-9.019e-01
-5.010	4.998	-0.100	0.999	-0.052	-0.004	1.137e+01	0.003	-0.007	1.000	-3.913e-03	0.052	0.999	0.007	-4.204e-01
-4.810	4.998	-0.100	0.996	-0.055	-0.001	1.131e+01	0.005	0.000	0.998	-1.161e-03	0.055	0.998	0.007	-3.169e-01
-4.610	4.998	-0.100	0.998	-0.059	-0.009	1.121e+01	0.009	0.006	1.000	-6.893e-03	0.059	0.998	0.007	-6.682e-01
-4.409	4.998	-0.100	0.998	-0.061	-0.012	1.106e+01	0.013	0.010	1.000	-9.433e-03	0.061	0.998	0.011	-8.276e-01
-4.209	4.998	-0.100	0.998	-0.063	-0.017	1.084e+01	0.017	0.013	1.000	-1.331e-02	0.063	0.998	0.014	-1.016e+00
-4.009	4.998	-0.100	0.998	-0.065	-0.021	1.052e+01	0.021	0.014	1.000	-1.033e-02	0.064	0.998	0.016	-1.238e+00
-3.809	4.998	-0.100	0.997	-0.065	-0.032	1.009e+01	0.033	0.015	0.999	-2.844e-02	0.065	0.999	0.017	-1.499e+00
-3.609	4.998	-0.100	0.997	-0.065	-0.044	9.521e+00	0.045	0.015	0.999	-3.924e-02	0.064	0.998	0.018	-1.803e+00
-3.408	4.998	-0.100	0.996	-0.063	-0.057	8.804e+00	0.058	0.014	0.998	-2.865e-02	0.062	0.998	0.018	-2.139e+00
-3.208	4.998	-0.100	0.997	-0.058	-0.047	7.939e+00	0.048	0.012	0.999	-1.237e-01	0.057	0.998	0.015	-2.421e+00
-3.008	4.998	-0.100	0.998	-0.036	-0.049	7.150e+00	-0.049	0.001	0.999	-1.106e-01	0.049	0.999	0.003	-2.434e+00
-2.808	4.998	-0.100	0.993	0.034	-0.115	6.771e+00	0.117	-0.069	0.991	-6.856e-01	-0.025	0.997	0.073	-2.125e+00

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-2.608	5.198	-0.100	0.984	0.049	-0.169	5.342e+00	0.172	-0.085	0.981	1.824e-01	-0.033	0.995	0.092	-1.663e+00
-2.407	5.198	-0.100	0.994	-0.113	-0.006	4.774e+00	-0.006	-0.006	0.996	1.441e-01	0.112	0.988	0.007	-1.372e+00
-2.207	5.198	-0.100	0.968	-0.249	0.033	5.575e+00	-0.036	-0.005	0.999	8.948e-03	0.249	0.968	0.014	-1.382e+00
-2.007	5.198	-0.100	0.951	-0.309	0.027	6.339e+00	-0.013	0.049	0.999	-1.125e-02	0.310	0.950	-0.043	-1.471e+00
-1.807	5.198	-0.100	0.943	-0.333	0.017	7.002e+00	0.007	0.071	0.997	-6.596e-03	0.334	0.940	-0.069	-1.527e+00
-1.607	5.198	-0.100	0.939	-0.343	0.006	7.528e+00	0.002	0.084	0.996	7.331e-04	0.342	0.936	-0.087	-1.557e+00
-1.406	5.198	-0.100	0.939	-0.345	0.002	7.926e+00	0.004	0.097	0.995	8.114e-03	0.344	0.934	-0.103	-1.570e+00
-1.206	5.198	-0.100	0.939	-0.344	-0.004	8.206e+00	0.046	0.112	0.993	1.625e-02	0.341	0.932	-0.121	-1.567e+00
-1.006	5.198	-0.100	0.940	-0.340	-0.010	8.378e+00	0.058	0.132	0.990	2.663e-02	0.335	0.931	-0.143	-1.547e+00
-0.806	5.198	-0.100	0.943	-0.334	-0.015	8.450e+00	0.071	0.159	0.985	4.150e-02	0.326	0.929	-0.173	-1.508e+00
-0.606	5.198	-0.100	0.945	-0.321	-0.020	8.421e+00	0.088	0.196	0.977	6.149e-02	0.313	0.925	-0.197	-1.450e+00
-0.405	5.198	-0.100	0.950	-0.311	-0.026	8.308e+00	0.107	0.247	0.963	1.019e-01	0.293	0.918	-0.239	-1.372e+00
-0.205	5.198	-0.100	0.956	-0.291	-0.033	8.089e+00	0.129	0.318	0.939	1.651e-01	0.263	0.902	-0.341	-1.283e+00
-0.005	5.198	-0.100	0.964	-0.262	-0.041	7.754e+00	0.150	0.409	0.900	2.748e-01	0.219	0.874	-0.433	-1.195e+00
0.195	5.198	-0.100	0.975	-0.212	0.025	7.282e+00	0.158	0.511	0.845	4.626e-01	0.155	0.832	-0.532	-1.145e+00
0.395	5.198	-0.100	0.988	-0.139	-0.073	6.235e+00	0.143	0.601	0.782	7.890e-01	0.064	0.802	-0.619	-1.293e+00
0.596	5.198	-0.100	0.992	-0.009	-0.126	6.235e+00	0.100	0.665	0.					

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0.996	5.799	-0.100	0.966	0.203	0.161	2.714e+01	-0.007	0.840	-0.536	4.821e+00	-0.245	0.503	0.829	-8.666e+00
1.196	5.799	-0.100	0.985	-0.155	-0.075	1.842e+01	0.027	-0.116	0.988	1.123e+00	-0.171	0.936	0.309	-1.938e+00
1.396	5.799	-0.100	0.964	-0.262	-0.093	1.316e+01	0.020	-0.112	0.994	1.158e+01	0.266	0.958	0.103	-4.877e+00
1.597	5.799	-0.100	0.960	-0.276	-0.082	1.045e+01	0.026	-0.061	0.998	9.334e+03	0.278	0.959	0.051	-4.023e+00
1.797	5.799	-0.100	0.964	-0.261	-0.047	8.591e+00	0.035	-0.047	0.998	1.571e+02	0.263	0.964	0.036	-3.458e+00
1.997	5.799	-0.100	0.973	-0.225	-0.057	6.885e+00	0.048	-0.044	0.998	5.272e+03	0.227	0.973	0.032	-2.957e+00
2.197	5.799	-0.100	0.987	-0.151	-0.051	5.105e+00	0.027	-0.012	0.988	0.024	-2.533e+00	0.988	0.151	-0.354e+00
2.397	5.799	-0.100	0.988	-0.059	-0.101	7.986e+00	0.138	-0.055	0.989	3.686e+01	0.066	0.997	0.046	-2.845e+00
2.598	5.799	-0.100	0.962	-0.163	-0.220	2.603e+00	0.208	-0.088	0.974	9.079e+02	0.178	0.983	0.051	-2.324e+00
2.798	5.799	-0.100	0.983	-0.186	0.001	2.398e+00	-0.007	-0.031	1.000	7.010e+02	0.186	0.982	0.031	-1.589e+00
2.998	5.799	-0.100	0.983	-0.177	0.038	2.806e+00	-0.041	-0.015	0.999	6.004e+03	0.176	0.984	0.022	-1.526e+00
3.198	5.799	-0.100	0.983	-0.182	0.036	3.159e+00	-0.037	-0.004	0.999	3.863e+03	0.182	0.983	0.011	-1.569e+00
3.398	5.799	-0.100	0.982	-0.188	0.031	3.416e+00	-0.031	0.004	1.000	-4.285e+03	0.188	0.982	0.002	-1.570e+00
3.599	5.799	-0.100	0.981	-0.191	0.028	3.623e+00	-0.027	0.011	1.000	-3.619e+03	0.191	0.982	-0.005	-1.529e+00
3.799	5.799	-0.100	0.981	-0.191	0.026	3.808e+00	-0.024	0.015	1.000	-3.023e+03	0.191	0.981	-0.011	-1.462e+00
3.999	5.799	-0.100	0.982	-0.189	0.025	3.986e+00	-0.021	0.019	1.000	-2.591e+03	0.189	0.982	-0.015	-1.382e+00
4.199	5.799	-0.100	0.983	-0.184	0.023	4.164e+00	-0.020	0.022	1.000	-2.282e+03	0.185	0.983	-0.018	-1.295e+00
4.399	5.799	-0.100	0.984	-0.178	0.022	4.344e+00	-0.018	0.025	1.000	-2.052e+03	0.179	0.984	-0.021	-1.208e+00
4.600	5.799	-0.100	0.985	-0.172	0.021	4.526e+00	-0.017	0.027	1.000	-1.872e+03	0.172	0.985	-0.024	-1.121e+00
4.800	5.799	-0.100	0.986	-0.164	0.020	4.710e+00	-0.015	0.028	0.999	-1.723e+03	0.165	0.986	-0.026	-1.037e+00
5.000	5.799	-0.100	0.987	-0.157	0.019	4.893e+00	-0.014	0.030	0.999	-1.594e+03	0.157	0.987	-0.027	-9.573e-01
-5.010	5.999	-0.100	0.998	-0.067	-0.003	1.132e+01	0.013	0.151	0.988	1.915e-04	0.066	0.986	-0.152	-1.268e-01
-4.810	5.999	-0.100	0.997	-0.073	-0.004	1.128e+01	0.016	0.159	0.987	1.179e+03	0.071	0.985	-0.159	-1.871e-01
-4.610	5.999	-0.100	0.997	-0.078	-0.006	1.120e+01	0.019	0.163	0.986	2.308e+03	0.076	0.983	-0.164	-2.632e-01
-4.409	5.999	-0.100	0.997	-0.082	-0.008	1.107e+01	0.023	0.166	0.986	3.371e+03	0.080	0.983	-0.167	-3.602e-01
-4.209	5.999	-0.100	0.996	-0.087	-0.014	1.087e+01	0.028	0.168	0.986	3.872e+03	0.083	0.982	-0.167	-4.857e-01
-4.009	5.999	-0.100	0.996	-0.090	-0.020	1.058e+01	0.035	0.162	0.986	2.790e+03	0.086	0.983	-0.164	-6.506e-01
-3.809	5.999	-0.100	0.995	-0.092	-0.029	1.018e+01	0.043	0.153	0.987	-1.436e+03	0.086	0.984	-0.157	-8.707e-01
-3.609	5.999	-0.100	0.995	-0.091	-0.042	9.677e+00	0.055	0.140	0.989	-8.187e+03	0.088	0.986	-0.145	-1.164e+00
-3.408	5.999	-0.100	0.995	-0.083	-0.055	8.954e+00	0.065	0.126	0.990	7.322e+03	0.075	0.989	-0.131	-1.525e+00
-3.208	5.999	-0.100	0.997	-0.065	-0.036	8.294e+00	0.044	0.123	0.991	1.739e+01	0.060	0.990	-0.126	-1.830e+00
-3.008	5.999	-0.100	0.995	-0.039	0.091	8.278e+00	-0.082	0.188	0.979	1.360e-01	0.056	0.981	-0.184	-1.597e+00
-2.808	5.999	-0.100	0.999	0.036	0.019	8.806e+00	-0.028	0.351	-0.309	-1.968e+02	-0.030	0.308	0.951	-7.060e-01
-2.608	5.999	-0.100	0.997	0.030	-0.070	8.226e+00	-0.076	0.359	0.330	5.053e+01	-0.002	0.333	0.369	-1.450e+00
-2.407	5.999	-0.100	0.979	-0.205	0.011	7.005e+00	-0.058	-0.229	0.972	2.006e+01	0.196	0.952	0.236	-1.264e+00
-2.207	5.999	-0.100	0.935	-0.354	0.035	7.275e+00	-0.054	-0.044	0.998	6.308e+03	0.352	0.934	0.060	-1.013e+00
-2.007	5.999	-0.100	0.914	-0.405	0.027	8.038e+00	0.001	0.070	0.998	-1.251e+02	0.406	0.912	-0.064	-1.002e+00
-1.807	5.999	-0.100	0.911	-0.412	0.018	8.747e+00	0.033	0.118	0.992	-5.139e+04	0.411	0.903	-0.121	-9.451e-01
-1.607	5.999	-0.100	0.914	-0.405	0.025	9.272e+00	0.057	0.156	0.986	1.399e+02	0.401	0.901	-0.166	-9.053e-01
-1.406	5.999	-0.100	0.912	-0.394	0.007	9.624e+00	0.084	0.213	0.974	3.297e+02	0.385	0.894	-0.228	-7.667e-01
-1.206	5.999	-0.100	0.924	-0.383	0.004	9.843e+00	0.126	0.313	0.941	6.715e+02	0.362	0.869	-0.338	-5.840e-01
-1.006	5.999	-0.100	0.928	-0.373	0.002	9.966e+00	0.198	0.497	0.845	1.470e+01	0.316	0.783	-0.535	-3.874e-01
-0.806	5.999	-0.100	0.937	-0.363	0.001	1.002e+01	0.280	0.721	0.634	3.412e+01	-0.231	-0.591	0.773	-2.396e-01
-0.606	5.999	-0.100	0.936	-0.352	0.001	1.004e+01	0.416	0.842	0.437	6.924e+01	-0.155	-0.409	0.889	-1.711e-01
-0.405	5.999	-0.100	0.941	-0.340	0.003	1.003e+01	0.520	0.890	0.324	1.186e+00	-0.113	-0.304	0.946	-1.480e-01
-0.205	5.999	-0.100	0.947	-0.322	0.006	1.003e+01	0.309	0.914	0.263	1.830e+00	-0.090	-0.247	0.965	-1.471e-01
-0.005	5.999	-0.100	0.955	-0.295	0.014	1.007e+01	0.284	0.932	0.226	2.660e+00	-0.080	-0.212	0.974	-1.629e-01
0.195	5.999	-0.100	0.969	-0.267	0.029	1.022e+01	0.237	0.951	0.200	3.747e+00	-0.187	0.979	0.004e+00	-0.000
0.395	5.999	-0.100	0.987	-0.147	0.060	1.060e+01	0.135	0.976	0.171	5.163e+00	-0.084	-0.161	0.983	-0.805e-01
0.596	5.999	-0.100	0.989	-0.092	0.115	1.165e+01	-0.104	0.990	0.096	6.727e+00	-0.105	-0.107	0.989	-4.389e-01
0.796	5.999	-0.100	0.929	0.353	0.114	1.467e+01	-0.339	0.933	-0.120	6.671e+00	-0.148	0.071	0.986	-6.939e-01
0.996	5.999	-0.100	0.959	0.285	0.002	1.806e+01	-0.242	0.817	-0.523	3.666e+00	-0.151	0.501	0.952	-1.480e+00
1.196	5.999	-0.100	0.997	0.058	-0.054	1.780e+01	0.071	0.410	0.939	3.655e+01	-0.031	0.910	0.413	-3.022e+00
1.396	5.999	-0.100	0.994	-0.098	-0.050	1.416e+01	0.035	-0.145	0.989	1.185e+01	0.104	0.985	0.141	-3.890e+00
1.597	5.999	-0.100	0.986	-0.163	-0.046	1.153e+01	0.035	-0.088	0.997	9.990e+03	0.166	0.984	0.062	-3.918e+00
1.797	5.999	-0.100	0.983	-0.176	-0.050	9.550e+00	0.041	-0.043	0.998	1.963e+02	0.177	0.984	0.034	-3.776e+00
1.997	5.999	-0.100	0.987	-0.146	-0.061	7.923e+00	0.057	-0.031	0.998	1.185e+02	0.147	0.989	0.022	-3.633e+00

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2.197	5.999	-0.100	0.996	-0.072	-0.058	6.405e+00	0.057	-0.018	0.998	5.174e+02	0.073	0.997	0.014	-3.413e+00
2.397	5.999	-0.100	0.993	-0.005	-0.116	5.112e+00	0.116	-0.040	0.992	-3.602e+01	0.009	0.999	0.039	-2.801e+00
2.598	5.999	-0.100	0.984	-0.079	-0.162	3.565e+00	0.155	-0.090	0.984	0.974	-1.928e+00	0.984	0.079	-0.557e+00
2.798	5.999	-0.100	0.984	-0.170	-0.084	2.332e+00	-0.004	-0.040	0.999	7.490e+02	0.179	0.993	0.040	-1.858e+00
2.998	5.999	-0.100	0.987	-0.189	0.032	3.363e+00	-0.034	-0.010	0.999	6.089e+03	0.188	0.982	0.016	-1.614e+00
3.198	5.999	-0.100	0.983	-0.182	0.033	3.533e+00	-0.034	-0.001	0.999	-4.745e+03	0.182	0.983	0.008	-1.602e+00
3.398	5.999	-0.100	0.983	-0.181	0.030	3.698e+00	-0.029	0.004	1.000	-5.072e+03	0.181	0.984	0.001	-1.568e+00
3.598	5.999	-0.100	0.983	-0.181	0.027	3.850e+00	-0.026	0.009	1.000	-4.154e+03	0.181	0.983	0.005	-1.514e+00
3.799	5.999	-0.100	0.983	-0.182	0.025	4.017e+00	-0.023	0.014	1.000	-3.352e+03	0.182	0.983	-0.010	-1.445e+00
3.999	5.999	-0.100	0.983	-0.180	0.024	4.179e+00	-0.021	0.019	0.998	-2.777e+03	0.181	0.983	-0.014	-1.367e+00
4.199	5.999	-0.100	0.984	-0.177	0.022	4.345e+00	-0.019	0.021	1.000	-2.733e+03	0.178	0.984	-0.017	-1.282e+00
4.399	5.999	-0.100	0.985	-0.171	0.021	4.513e+00	-0.017	0.024	1.000	-2.098e+03	0.173	0.985	-0.022	-1.192e+00
4.600	5.999	-0.100	0.986	-0.168	0.020	4.685e+00	-0.016	0.026	1.000	-1.864e+03	0.168	0.986	-0.023	-1.119e+00
4.800	5.999	-0.100	0.987	-0.162	0.019	4.858e+00	-0.015	0.028	1.000	-1.690e+03	0.162	0.986	-0.025	-1.038e+00
5.000	5.999	-0.100	0.988	-0.155	0.018	5.033e+00	-0.013	0.029	0.999	-1.544e+03	0.155	0.987	-0.027	-9.604e-01
-5.010	6.199	-0.100	0.998	-0.070	-0.002	1.131e+01	0.043	0.090	0.999	1.525e+02	0.055	0.997	0.079	-4.473e-01
-4.810	6.199	-0.100	0.997	-0.075	-0									

Visualization of TRIA 1 OUTPUT

trial 1 output: 136 of 137

-4.409	6.800	-0.100	0.996	-0.085	-0.001	1.129e+01	0.084	0.981	4.958e-01	-0.014	-0.175	0.985	-1.904e-02	
-4.209	6.800	-0.100	0.996	-0.086	-0.002	1.125e+01	0.085	0.974	5.824e-01	-0.016	-0.209	0.978	-3.147e-02	
-4.009	6.800	-0.100	0.996	-0.084	-0.003	1.119e+01	0.082	0.965	6.965e-01	-0.018	-0.248	0.969	-5.236e-02	
-3.809	6.800	-0.100	0.997	-0.076	-0.004	1.111e+01	0.074	0.953	8.503e-01	-0.018	-0.293	0.956	-8.929e-02	
-3.609	6.800	-0.100	0.998	-0.055	-0.004	1.102e+01	0.053	0.936	1.064e+00	-0.015	-0.349	0.937	-1.598e-01	
-3.409	6.800	-0.100	1.000	-0.009	-0.001	1.102e+01	0.008	0.905	1.374e+00	-0.003	-0.424	0.905	-3.100e-01	
-3.208	6.800	-0.100	0.996	0.092	0.022	1.151e+01	-0.090	0.840	1.837e+00	0.031	-0.534	0.845	-7.044e-01	
-3.008	6.800	-0.100	0.956	0.276	0.098	1.524e+01	-0.265	0.677	2.645e+00	0.123	-0.682	0.721	-2.703e+00	
-2.808	6.800	-0.100	0.943	0.098	0.317	5.771e+01	-0.229	0.884	4.407	1.983e+01	-0.241	-0.457	0.857	-1.652e+01
-2.608	6.800	-0.100	0.514	-0.401	0.064	2.420e+01	-0.195	-0.296	9.935	1.462e+00	0.357	0.867	0.349	-9.487e+00
-2.407	6.800	-0.100	0.902	-0.431	0.018	1.637e+01	-0.060	-0.083	0.995	1.047e-01	0.427	0.898	0.101	-4.679e+00
-2.207	6.800	-0.100	0.916	-0.400	0.013	1.405e+01	-0.018	-0.009	1.000	3.166e-03	0.400	0.916	0.015	-2.865e+00
-2.007	6.800	-0.100	0.929	-0.369	0.010	1.305e+01	0.001	0.029	1.000	-6.184e-03	0.369	0.929	-0.027	-1.925e+00
-1.807	6.800	-0.100	0.938	-0.346	0.008	1.249e+01	0.014	0.063	0.998	-2.799e-03	0.346	0.936	-0.064	-1.314e+00
-1.607	6.800	-0.100	0.945	-0.328	0.007	1.212e+01	0.032	0.113	0.993	4.394e-03	0.327	0.938	-0.118	-8.345e-01
-1.406	6.800	-0.100	0.949	-0.314	0.006	1.183e+01	0.074	0.245	0.967	2.208e-02	0.305	0.917	-0.256	-4.150e-01
-1.206	6.800	-0.100	0.954	-0.301	0.006	1.157e+01	0.227	0.734	0.640	1.331e-01	-0.197	-0.609	0.769	-1.030e-01
-1.006	6.800	-0.100	0.958	-0.287	0.007	1.134e+01	0.277	0.931	0.237	4.929e-01	-0.074	-0.225	0.972	-3.627e-02
-0.806	6.800	-0.100	0.963	-0.270	0.008	1.113e+01	0.267	0.955	0.132	9.186e-01	-0.043	-0.125	0.991	-2.380e-02
-0.606	6.800	-0.100	0.969	-0.249	0.009	1.093e+01	0.247	0.965	0.087	1.364e+00	-0.030	-0.082	0.996	-1.880e-02
-0.405	6.800	-0.100	0.976	-0.219	0.011	1.076e+01	0.218	0.974	0.057	1.812e+00	-0.024	-0.053	0.998	-1.601e-02
-0.205	6.800	-0.100	0.984	-0.178	0.013	1.062e+01	0.178	0.984	0.033	2.233e+00	-0.019	-0.030	0.999	-1.433e-02
-0.005	6.800	-0.100	0.992	-0.123	0.015	1.055e+01	0.122	0.992	0.009	2.570e+00	-0.016	-0.007	1.000	-1.370e-02
0.195	6.800	-0.100	0.998	-0.054	0.014	1.053e+01	0.054	0.998	-0.019	2.729e+00	-0.013	0.019	1.000	-1.480e-02
0.395	6.800	-0.100	1.000	0.018	0.010	1.078e+01	-0.017	0.998	-0.052	2.600e+00	-0.011	0.052	0.999	-1.917e-02
0.596	6.800	-0.100	0.997	0.074	0.003	1.108e+01	-0.073	0.992	-0.100	2.110e+00	-0.010	0.100	0.995	-2.974e-02
0.796	6.800	-0.100	0.995	0.101	-0.007	1.140e+01	-0.100	0.976	-0.193	1.292e+00	-0.013	0.193	0.981	-5.552e-02
0.996	6.800	-0.100	0.995	0.099	-0.016	1.155e+01	-0.090	0.817	-0.569	3.637e-01	-0.043	0.568	0.822	-1.816e-01
1.196	6.800	-0.100	0.997	0.077	-0.025	1.139e+01	0.042	-0.227	0.973	4.340e-02	-0.069	0.971	0.229	-9.440e-01
1.396	6.800	-0.100	0.998	0.048	-0.033	1.088e+01	0.037	-0.091	0.995	-4.325e-04	-0.045	0.995	0.093	-1.869e+00
1.597	6.800	-0.100	0.999	0.023	-0.043	1.005e+01	0.044	-0.049	0.998	-2.152e-02	-0.021	0.999	0.050	-2.653e+00
1.797	6.800	-0.100	0.998	0.009	-0.055	8.941e+00	0.056	-0.033	0.998	-3.540e-02	-0.007	0.999	0.034	-3.301e+00
1.997	6.800	-0.100	0.998	0.012	-0.068	7.599e+00	0.069	-0.030	0.997	6.157e-04	-0.010	0.999	0.031	-3.875e+00
2.197	6.800	-0.100	0.999	0.021	-0.038	6.098e+00	0.039	-0.034	0.999	1.952e-01	-0.020	0.999	0.034	-4.499e+00
2.397	6.800	-0.100	0.995	-0.058	-0.085	5.180e+00	0.084	-0.020	0.996	-5.378e-01	0.060	0.998	0.015	-4.621e+00
2.598	6.800	-0.100	0.957	-0.157	-0.243	3.246e+00	0.237	-0.053	0.970	6.530e-02	0.165	0.986	0.014	-1.971e+00
2.798	6.800	-0.100	1.000	-0.030	0.003	3.036e+00	-0.003	-0.025	1.000	1.080e-01	0.030	0.999	0.025	-9.812e-01
2.998	6.800	-0.100	0.990	-0.142	0.022	4.580e+00	-0.023	0.008	0.998	6.072e-03	0.042	0.998	0.039	-1.110e+00
3.198	6.800	-0.100	0.996	-0.082	0.040	3.934e+00	-0.041	-0.019	0.999	-9.679e-03	0.081	0.996	0.022	-1.234e+00
3.398	6.800	-0.100	0.994	-0.108	0.032	4.198e+00	-0.033	-0.006	0.999	-8.956e-03	0.108	0.994	0.010	-1.287e+00
3.599	6.800	-0.100	0.992	-0.125	0.027	4.404e+00	-0.027	0.002	1.000	-6.675e-03	0.125	0.992	0.001	-1.290e+00
3.799	6.800	-0.100	0.990	-0.136	0.024	4.580e+00	-0.023	0.008	1.000	-9.150e-03	0.136	0.991	-0.005	-1.264e+00
3.998	6.800	-0.100	0.990	-0.142	0.022	4.744e+00	-0.020	0.013	1.000	-3.726e-03	0.142	0.990	-0.010	-1.221e+00
4.199	6.800	-0.100	0.989	-0.146	0.020	4.901e+00	-0.018	0.016	1.000	-2.929e-03	0.146	0.989	-0.014	-1.168e+00
4.399	6.800	-0.100	0.989	-0.147	0.018	5.057e+00	-0.016	0.019	1.000	-2.382e-03	0.147	0.989	-0.017	-1.109e+00
4.600	6.800	-0.100	0.989	-0.147	0.017	5.212e+00	-0.014	0.022	1.000	-1.959e-03	0.147	0.989	-0.020	-1.048e+00
4.800	6.800	-0.100	0.989	-0.145	0.016	5.367e+00	-0.013	0.025	1.000	-1.704e-03	0.146	0.989	-0.022	-9.848e-01
5.000	6.800	-0.100	0.990	-0.143	0.015	5.521e+00	-0.012	0.027	1.000	-1.480e-03	0.143	0.989	-0.025	-9.225e-01
-5.010	7.000	-0.100	0.997	-0.073	0.001	1.130e+01	0.073	0.996	0.060	4.402e-01	-0.006	-0.060	0.998	-2.823e-03
-4.810	7.000	-0.100	0.997	-0.070	0.001	1.133e+01	0.077	0.994	0.079	5.016e-01	-0.007	-0.078	0.997	-4.684e-03
-4.610	7.000	-0.100	0.997	-0.067	0.001	1.135e+01	0.081	0.992	0.098	5.813e-01	-0.009	-0.097	0.995	-7.631e-03
-4.409	7.000	-0.100	0.996	-0.064	0.001	1.137e+01	0.084	0.989	0.118	6.778e-01	-0.011	-0.118	0.993	-1.226e-02
-4.209	7.000	-0.100	0.996	-0.085	0.001	1.138e+01	0.084	0.987	0.140	7.994e-01	-0.013	-0.139	0.990	-1.960e-02
-4.009	7.000	-0.100	0.997	-0.083	0.002	1.142e+01	0.082	0.983	0.164	9.548e-01	-0.015	-0.163	0.986	-3.145e-02
-3.809	7.000	-0.100	0.997	-0.077	0.003	1.150e+01	0.075	0.979	0.191	1.157e+00	-0.017	-0.190	0.982	-5.236e-02
-3.609	7.000	-0.100	0.998	-0.063	0.006	1.168e+01	0.060	0.971	0.223	1.427e+00	-0.020	-0.222	0.975	-8.602e-02
-3.408	7.000	-0.100	0.999	-0.040	0.014	1.218e+01	0.035	0.965	0.258	1.818e+00	-0.024	-0.258	0.966	-1.486e-01

trial 1 output: 137 of 137

-3.208	7.000	-0.100	0.999	-0.017	0.034	1.339e+01	0.007	0.960	0.281	2.514e+00	-0.037	-0.280	0.972	-2.591e-01
-3.008	7.000	-0.100	0.997	-0.018	0.037	1.591e+01	0.001	0.975	0.220	4.111e+00	-0.079	-0.219	0.972	-4.135e-01
-2.808	7.000	-0.100	0.985	0.121	0.125	1.914e+01	-0.108	0.989	-0.099	7.295e+00	-0.136	0.084	0.987	-5.421e-01
-2.608	7.000	-0.100	1.000	0.011	0.025	2.140e+01	-0.011	-0.665	0.747	1.425e+00	-0.025	0.747	0.664	-1.688e+00
-2.407	7.000	-0.100	0.983	-0.182	0.006	1.823e+01	-0.036	-0.166	0.985	1.223e-01	0.179	0.969	0.170	-2.850e+00
-2.207	7.000	-0.100	0.967	-0.254	0.005	1.567e+01	-0.017	-0.046	0.999	1.163e-02	0.254	0.966	0.049	-2.407e+00
-2.007	7.000	-0.100	0.961	-0.276	0.006	1.439e+01	-0.005	0.003	1.000	-3.143e-03	0.276	0.961	-0.002	-1.763e+00
-1.807	7.000	-0.100	0.960	-0.280	0.006	1.329e+01	0.006	0.040	0.999	-3.208e-03	0.280	0.959	-0.040	-1.209e+00
-1.607	7.000	-0.100	0.961	-0.277	0.005	1.269e+01	0.021	0.091	0.996	1.022e-03	0.276	0.957	-0.093	-7.375e-01
-1.406	7.000	-0.100	0.963	-0.271	0.005	1.225e+01	0.061	0.236	0.970	1.460e-02	0.264	0.933	-0.244	-3.212e-01
-1.206	7.000	-0.100	0.965	-0.262	0.006	1.190e+01	0.228	0.850	0.475	1.528e-01	-0.129	-0.457	0.880	-5.159e-02
-1.006	7.000	-0.100	0.968	-0.250	0.006	1.161e+01	0.246	0.955	0.164	5.201e-01	-0.047	-0.157	0.986	-2.033e-02
-0.806	7.000	-0.100	0.972	-0.234	0.007	1.135e+01	0.232	0.968	0.092	9.069e-01	-0.028	-0.088	0.996	-1.419e-02
-0.606	7.000	-0.100	0.977	-0.212	0.008	1.113e+01	0.211	0.976	0.057	1.286e+00	-0.020	-0.054	0.998	-1.151e-02
-0.405	7.000	-0.100	0.983	-0.183	0.009	1.094e+01	0.182	0.983	0.033	1.638e+00	-0.015	-0.031	0.999	-1.003e-02
-0.205	7.000	-0.100	0.990	-0.144	0.010	1.080e+01	0.144	0.990	0.013	1.931e+00	-0.011	-0.011	1.000	-9.325e-03
-0.005	7.000	-0.100	0.995	-0.096	0.009	1.072e+01	0.096	0.995	-0.008	2.114e+00	-0.009	0.009	1.0	

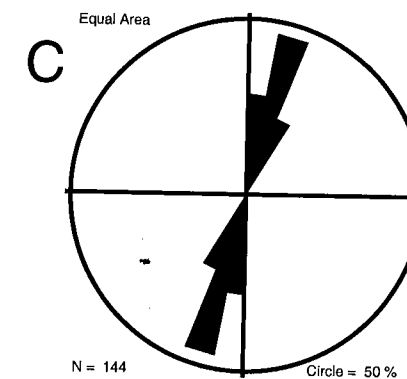
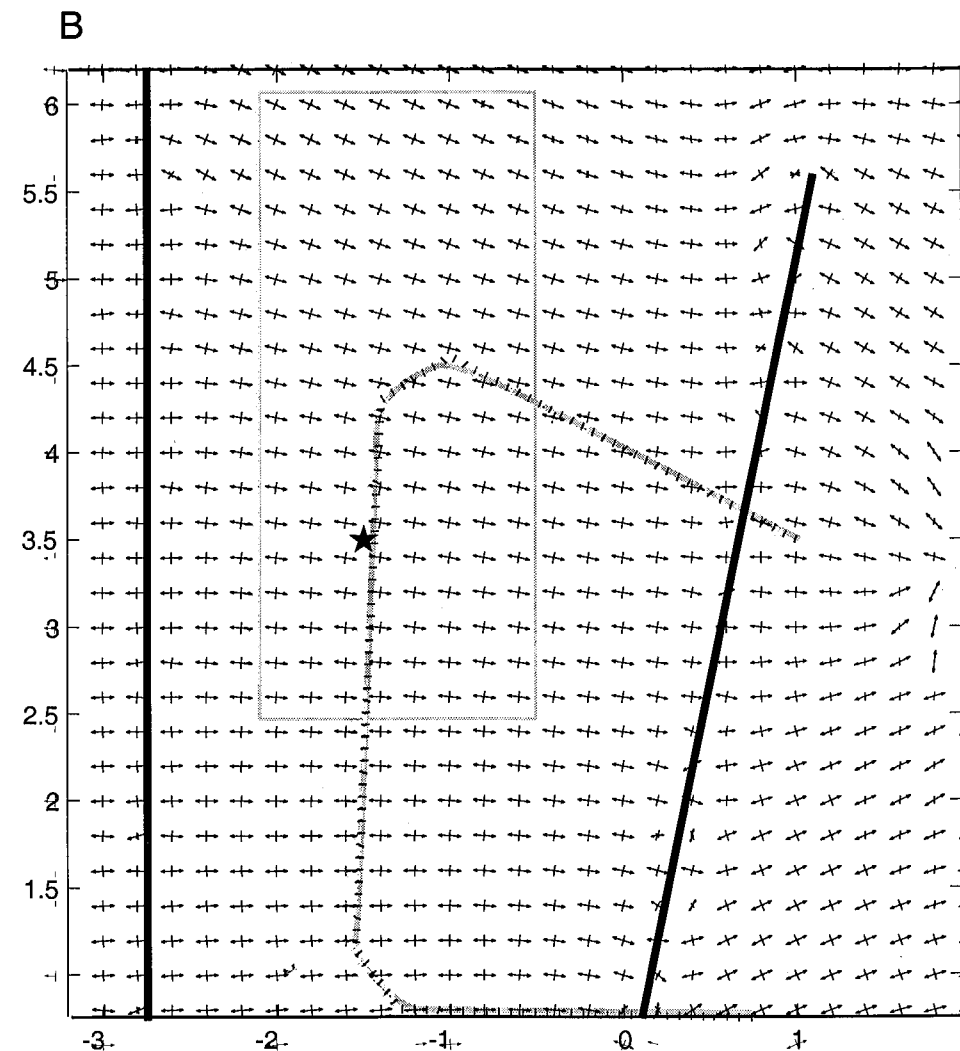


Figure 9. Modeled stress trajectories and joint orientations for the case of E-W tension = 10 MPa.

Results for 100 m depth. (A) Regional view. Arrows show direction of S_h , ticks show S_H (proxy for joint orientations). Perturbation is observed in the overlap zone between the faults. SCF=Solitario Canyon Fault. BRF=Bow Ridge Fault. PCF=Paintbrush Canyon fault. Heavy grey line shows southern segment of BRF, not modeled. Light grey line is approximate location of the ESF. Star locates Live Yucca Ridge. Coordinate system as in Fig. 8. Box outlines area of b. (B) Details of the stress perturbation in the region around Live Yucca Ridge. Deflection of S_h in between SDF and BRF is greatest north of the ESF. Box indicates data plotted in c. (C) Rose diagrams of expected joint orientations in the vicinity of Live Yucca Ridge. Range is from 000 to 030. Plot radius = 50%.

TRIAL 2 INPUT

trial 2 input: 1 of 28

```
*****
*      Section      1:00  CONSTANTS      *
*****
```

```
*      Titles
*-----
title1      =      "Solitario & paint brush & north segment of bow ridge"
```

```
title2      =      "rectangular faults, ttt=00x: TRIAL 2"
*All lengths in km, all stresses & tractions in MPa
```

```
*      Elastic      Constants
*      Specify      any two. Leave the rest blank.
*-----
shear_mod    =      30000 *MPa
psn_ratio    =      0.25 *unitless (Poisson's ratio)
youngs_mod   =
bulk_mod     =
lame_lambda  =
```

```
*      Remote      Stresses/Strains
*-----
```

```
rem_bc_type = stress      *(stress/strain)
sl1r        = 10      *MPa, tension positive
s22r        = 4
s33r        = 0      *(set to zero for half space problems)
s12r        = 0
s13r        = 0      *(set to zero for half space problems)
s23r        = 0      *(set to zero for half space problems)
```

```
*      Options
*-----
```

```
half_space   = yes      *(yes/no)
check_cond_num = no      *(yes/no) checked in trial 1
print_elt_geom = no      *(yes/no) output in trial 1, no change

elt_geom_csys = global
null_value    = -999
```

```
end *(CONSTANTS)
```

```
*      Section      2:00  USER COORDINATE SYSTEMS      *
*****
```

```
*fault is meshed in a horizontal plane, then rotated and translated as specified here
```

```
*      -1  -2  -3  -4  -5  -6  -7  -8  -9
*name parent x1o x2o x3o rot1 rot2 rot3 rot order
*-----
```

```
scfr_cs      global      -2.75 -9.25 0      0      -75  -90  321
pcfr_cs      global      2.5   -5.5 0      0      -75  -90  321
brfr_cs      global      0     -0.25 0      60      0   -100  123
```

[remainder of file is the same as trial 1 input.]

TRIAL 2 OUTPUT

trial 2 output: 1 of 81

OUTPUT FROM: poly3d.c, version Beta-Release
COMPILED: Aug 11 1999

INPUT FILE: donne_etal_trial2.in
TITLE1: Solitario & paint brush & north segment of bow ridge
TITLE2: rectangular faults, ttt=00x: TRIAL 2

ELASTIC CONSTANTS:
Shear Modulus = 30000.000000
Poisson's Ratio = 0.250000
Young's Modulus = 75000.000000
Bulk Modulus = 50000.000000
Lame's Lambda = 30000.000000

NULL OUTPUT VALUE = -999.000000

CONDITION NUMBER = (no traction bc's -> no matrix needed)

OBJECT: scfr
ELT CENTER COORD SYS: scfr_cs

DISPLACEMENTS:

ELT	X1C	X2C	X3C	B1	U1(+)	U1(-)	B2	U2(+)	U2(-)	B3	U3(+)	U3(-)	Coord Sys
1	-15.500	-5.805	-0.000	-1.182e-06	8.673e-05	8.792e-05	-1.012e-04	-1.130e-04	-1.179e-05	1.127e-06	8.958e-05	8.845e-05	scfr_cs
2	-14.500	-5.805	-0.000	-7.634e-08	1.120e-04	1.120e-04	-1.233e-04	-1.314e-04	-8.070e-06	3.066e-06	1.083e-04	1.052e-04	scfr_cs
3	-13.500	-5.805	-0.000	-5.044e-06	1.258e-04	1.308e-04	-1.344e-04	-1.465e-04	-1.210e-05	6.512e-06	1.197e-04	1.131e-04	scfr_cs
4	-12.500	-5.805	-0.000	-1.357e-05	1.378e-04	1.513e-04	-1.444e-04	-1.592e-04	-1.480e-05	1.056e-05	1.240e-04	1.135e-04	scfr_cs
5	-11.500	-5.805	-0.000	-2.339e-05	1.515e-04	1.749e-04	-1.570e-04	-1.688e-04	-1.173e-05	1.487e-05	1.219e-04	1.071e-04	scfr_cs
6	-10.500	-5.805	-0.000	-3.256e-05	1.692e-04	2.018e-04	-1.747e-04	-1.749e-04	-1.921e-07	1.827e-05	1.143e-04	9.598e-05	scfr_cs
7	-9.500	-5.805	-0.000	-3.591e-05	1.929e-04	2.288e-04	-1.988e-04	-1.749e-04	2.391e-05	1.969e-05	1.023e-04	8.261e-05	scfr_cs
8	-8.500	-5.805	-0.000	-2.718e-05	2.146e-04	2.418e-04	-2.191e-04	-1.630e-04	5.606e-05	1.792e-05	9.227e-05	7.435e-05	scfr_cs
9	-7.500	-5.805	-0.000	-1.763e-05	3.025e-06	1.460e-05	-2.282e-04	-1.319e-04	9.627e-05	1.595e-05	1.022e-04	8.628e-05	scfr_cs
10	-6.500	-5.805	-0.000	-1.085e-05	2.292e-04	2.400e-04	-2.309e-04	-1.383e-04	9.262e-05	1.402e-05	8.198e-05	6.796e-05	scfr_cs
11	-5.500	-5.805	-0.000	-5.673e-06	2.292e-04	2.349e-04	-2.296e-04	-1.276e-04	1.019e-04	1.200e-05	7.770e-05	6.570e-05	scfr_cs
12	-4.500	-5.805	-0.000	-9.349e-07	2.258e-04	2.268e-04	-2.248e-04	-1.161e-04	1.087e-04	1.014e-05	7.257e-05	6.243e-05	scfr_cs
13	-3.500	-5.805	-0.000	4.102e-06	2.186e-04	2.145e-04	-2.160e-04	-1.025e-04	1.135e-04	8.175e-06	6.639e-05	5.821e-05	scfr_cs
14	-2.500	-5.805	-0.000	9.521e-06	2.058e-04	1.963e-04	-2.018e-04	-8.627e-05	1.155e-04	6.526e-06	5.867e-05	5.215e-05	scfr_cs
15	-1.500	-5.805	-0.000	1.471e-05	1.846e-04	1.699e-04	-1.794e-04	-6.677e-05	1.126e-04	4.765e-06	4.900e-05	4.424e-05	scfr_cs
16	-0.500	-5.805	-0.000	1.781e-05	1.454e-04	1.274e-04	-1.400e-04	-4.176e-05	9.876e-05	3.012e-06	3.53e-05	3.252e-05	scfr_cs
17	-15.500	-5.430	-0.000	2.181e-06	1.320e-04	1.298e-04	-1.465e-04	-1.360e-04	1.053e-05	1.743e-06	9.074e-05	8.950e-05	scfr_cs
18	-14.500	-5.430	-0.000	3.252e-06	1.709e-04	1.676e-04	-1.822e-04	-1.629e-04	1.929e-05	4.145e-06	1.116e-04	1.075e-04	scfr_cs
19	-13.500	-5.430	-0.000	4.683e-06	1.901e-04	1.948e-04	-1.996e-04	-1.858e-04	1.387e-05	9.942e-06	1.247e-04	1.145e-04	scfr_cs
20	-12.500	-5.430	-0.000	-1.820e-05	2.056e-04	2.238e-04	-2.147e-04	-2.069e-04	7.762e-06	1.595e-05	1.286e-04	1.117e-04	scfr_cs
21	-11.500	-5.430	-0.000	-3.399e-05	2.235e-04	2.575e-04	-2.334e-04	-2.256e-04	7.871e-06	2.439e-05	1.247e-04	1.003e-04	scfr_cs
22	-10.500	-5.430	-0.000	-4.930e-05	2.480e-04	2.973e-04	-2.598e-04	-2.410e-04	1.879e-05	3.063e-05	1.132e-04	8.258e-05	scfr_cs
23	-9.500	-5.430	-0.000	-5.637e-05	2.829e-04	3.393e-04	-2.964e-04	-2.482e-04	4.816e-05	3.314e-05	9.495e-05	6.182e-05	scfr_cs
24	-8.500	-5.430	-0.000	-4.209e-05	3.173e-04	3.594e-04	-3.280e-04	-2.339e-04	9.410e-05	2.946e-05	8.033e-05	5.087e-05	scfr_cs
25	-7.500	-5.430	-0.000	-2.677e-05	3.418e-04	3.751e-04	-3.421e-04	-2.500e-04	1.619e-04	2.946e-05	9.906e-05	7.333e-05	scfr_cs
26	-6.500	-5.430	0.000	-1.615e-05	5.032e-06	1.112e-05	-3.462e-04	-1.850e-04	1.612e-04	2.256e-05	9.161e-05	6.905e-05	scfr_cs
27	-5.500	-5.430	0.000	-8.249e-06	2.657e-06	5.592e-06	-3.439e-04	-1.789e-04	1.650e-04	1.941e-05	8.472e-05	6.531e-05	scfr_cs
28	-4.500	-5.430	0.000	-1.211e-06	2.198e-07	9.914e-07	-3.362e-04	-1.706e-04	1.657e-04	1.622e-05	7.721e-05	6.099e-05	scfr_cs
29	-3.500	-5.430	0.000	6.054e-06	2.371e-06	3.683e-06	-3.223e-04	-1.594e-04	1.629e-04	1.319e-05	6.881e-05	5.562e-05	scfr_cs

Fault geometry output omitted
- same as trial 1.

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30	-2.500	-5.430	0.000	1.365e-05	4.995e-06	-8.691e-06	-2.998e-04	-1.443e-04	1.555e-04	1.032e-05	5.929e-05	4.897e-05	scfr_cs
31	-1.500	-5.430	0.000	2.046e-05	6.995e-06	-1.347e-05	-2.643e-04	-1.234e-04	1.409e-04	7.698e-06	4.814e-05	4.044e-05	scfr_cs
32	-0.500	-5.430	0.000	2.230e-05	6.906e-06	-1.611e-05	-2.017e-04	-8.989e-05	1.118e-04	4.753e-06	3.376e-05	2.900e-05	scfr_cs
33	-15.500	-5.055	-0.000	6.752e-06	1.652e-04	1.584e-04	-1.786e-04	-1.503e-04	2.825e-05	8.856e-07	9.133e-05	9.044e-05	scfr_cs
34	-14.500	-5.055	-0.000	7.658e-06	2.165e-04	2.088e-04	-2.269e-04	-1.853e-04	4.163e-05	4.808e-06	1.140e-04	1.092e-04	scfr_cs
35	-13.500	-5.055	-0.000	-2.807e-06	2.413e-04	2.441e-04	-2.506e-04	-2.152e-04	3.544e-05	1.291e-05	1.279e-04	1.149e-04	scfr_cs
36	-12.500	-5.055	-0.000	-2.041e-05	2.603e-04	2.808e-04	-2.703e-04	-2.436e-04	2.676e-05	2.310e-05	1.316e-04	1.085e-04	scfr_cs
37	-11.500	-5.055	-0.000	-4.108e-05	2.819e-04	3.238e-04	-2.941e-04	-2.690e-04	2.452e-05	3.382e-05	1.256e-04	9.183e-05	scfr_cs
38	-10.500	-5.055	-0.000	-6.137e-05	3.112e-04	3.725e-04	-3.269e-04	-2.921e-04	3.477e-05	4.312e-05	1.102e-04	6.707e-05	scfr_cs
39	-9.500	-5.055	-0.000	-7.177e-05	3.522e-04	4.239e-04	-3.710e-04	-3.043e-04	6.676e-05	4.670e-05	8.595e-05	3.925e-05	scfr_cs
40	-8.500	-5.055	-0.000	-5.322e-05	3.940e-04	4.472e-04	-4.093e-04	-2.869e-04	1.224e-04	4.042e-05	6.705e-05	2.663e-05	scfr_cs
41	-7.500	-5.055	-0.000	-3.321e-05	4.158e-04	4.490e-04	-4.269e-04	-2.650e-04	1.619e-04	3.504e-05	2.368e-05	2.368e-05	scfr_cs
42	-6.500	-5.055	-0.000	-1.966e-05	4.241e-04	4.437e-04	-4.318e-04	-2.471e-04	1.847e-04	3.040e-05	5.483e-05	2.443e-05	scfr_cs
43	-5.500	-5.055	-0.000	-9.703e-06	4.239e-04	4.336e-04	-4.285e-04	-2.305e-04	1.980e-04	2.598e-05	5.184e-05	2.598e-05	scfr_cs
44	-4.500	-5.055	-0.000	-1.152e-05	4.166e-04	4.177e-04	-4.182e-04	-2.122e-04	2.060e-04	2.182e-05	4.835e-05	2.653e-05	scfr_cs
45	-3.500	-5.055	-0.000	7.425e-06	4.014e-04	3.939e-04	-3.997e-04	-1.902e-04	2.095e-04	1.773e-05	4.403e-05	2.629e-05	scfr_cs
46	-2.500	-5.055	-0.000	1.612e-05	3.751e-04	3.590e-04	-3.703e-04	-1.630e-04	2.074e-04	1.383e-05	2.478e-05	2.478e-05	scfr_cs
47	-1.500	-5.055	-0.000	2.339e-05	3.310e-04	3.076e-04	-3.239e-04	-1.293e-04	1.946e-04	1.021e-05	3.167e-05	2.146e-05	scfr_cs
48	-0.500	-5.055	-0.000	2.470e-05	2.488e-04	2.241e-04	-2.424e-04	-8.493e-05	1.574e-04	6.278e-06	2.260e-05	1.633e-05	scfr_cs
49	-15.500	-4.680	-0.000	1.079e-05	1.939e-04	1.831e-04	-2.057e-04	-1.619e-04	4.383e-05	5.353e-07	9.001e-05	8.948e-05	scfr_cs
50	-14.500	-4.680	-0.000	1.153e-05	2.576e-04	2.461e-04	-2.666e-04	-2.045e-04	6.210e-05	5.686e-06	1.132e-04	1.076e-04	scfr_cs
51	-13.500	-4.680	-0.000	1.098e-06	2.888e-04	2.899e-04	-2.972e-04	-2.411e-04	5.602e-05	1.632e-05	1.270e-04	1.107e-04	scfr_cs
52	-12.500	-4.680	-0.000	-2.210e-05	3.116e-04	3.337e-04	-3.216e-04	-2.761e-04	4.557e-05	3.005e-05	1.291e-04	9.906e-05	scfr_cs
53	-11.500	-4.680	-0.000	-4.660e-05	3.364e-04	3.830e-04	-3.499e-04	-3.082e-04	4.171e-05	4.430e-05	1.202e-04	7.593e-05	scfr_cs
54	-10.500	-4.680	-0.000	-7.012e-05	3.693e-04	4.395e-04	-3.876e-04	-3.355e-04	5.208e-05	5.675e-05	1.007e-04	4.395e-05	scfr_cs
55	-9.500	-4.680	-0.000	-8.191e-05	4.113e-04	4.956e-04	-4.361e-04	-3.495e-04	6.661e-05	6.108e-05	7.243e-05	1.134e-05	scfr_cs
56	-8.500	-4.680	-0.000	-6.127e-05	4.589e-04	5.202e-04	-4.778e-04	-3.300e-04	1.478e-04	5.173e-05	5.122e-05	5.094e-07	scfr_cs
57	-7.500	-4.680	-0.000	-3.772e-05	5.140e-04	5.032e-04	-2.844e-04	-2.188e-04	3.828e-05	3.862e-05	3.418e-07	scfr_cs	
58	-6.500	-4.680	-0.000	-2.171e-05	4.931e-04	5.148e-04	-5.032e-04	-2.844e-04	2.188e-04	3.828e-05	3.862e-05	3.418e-07	scfr_cs
59	-5.500	-4.680	-0.000	-1.029e-05	4.922e-04	5.025e-04	-4.988e-04	-2.656e-04	2.332e-04	3.			

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87	-9.500	-3.935	0.000	-8.652e-05	-2.541e-05	6.111e-05	-5.453e-04	-3.265e-04	2.188e-04	9.081e-05	1.223e-04	3.152e-05	sefr_cs
88	-8.500	-3.935	0.000	-7.412e-05	-2.350e-05	4.393e-05	-5.926e-04	-3.268e-04	2.658e-04	7.624e-05	8.772e-05	1.148e-05	sefr_cs
89	-7.500	-3.935	0.000	-4.955e-05	-1.850e-05	2.245e-05	-6.160e-04	-3.249e-04	2.910e-04	6.432e-05	6.720e-05	2.879e-06	sefr_cs
90	-6.500	-3.935	0.000	-2.197e-05	-1.419e-05	7.782e-06	-6.214e-04	-3.200e-04	3.014e-04	5.518e-05	5.616e-05	9.808e-07	sefr_cs
91	-5.500	-3.935	0.000	-8.821e-06	-1.044e-05	-1.622e-06	-6.143e-04	-3.113e-04	3.030e-04	4.678e-05	4.827e-05	1.484e-06	sefr_cs
92	-4.500	-3.935	0.000	1.561e-06	-6.755e-06	-8.316e-06	-5.963e-04	-2.980e-04	2.983e-04	3.902e-05	4.131e-05	-2.288e-06	sefr_cs
93	-3.500	-3.935	0.000	1.115e-05	-2.905e-05	-1.406e-05	-5.657e-04	-1.870e-04	2.870e-04	3.155e-05	3.446e-05	2.880e-06	sefr_cs
94	-2.500	-3.935	0.000	2.014e-05	-7.688e-07	-1.937e-05	-5.179e-04	-2.510e-04	2.668e-04	2.475e-05	2.775e-05	2.998e-06	sefr_cs
95	-1.500	-3.935	0.000	2.639e-05	3.051e-06	-2.334e-06	-4.435e-04	-2.106e-04	3.329e-04	1.813e-05	2.088e-05	2.752e-06	sefr_cs
96	-0.500	-3.935	0.000	2.478e-05	1.459e-06	-2.332e-05	-3.184e-04	-1.457e-04	1.727e-04	1.092e-05	1.316e-05	2.238e-06	sefr_cs
97	-15.500	-3.560	-0.000	1.280e-05	2.681e-04	2.553e-04	-2.736e-04	-1.965e-04	7.710e-05	2.315e-06	6.850e-06	6.619e-05	sefr_cs
98	-14.500	-3.560	-0.000	1.283e-05	1.650e-04	3.521e-04	-3.679e-04	-2.597e-04	1.082e-04	1.318e-05	8.346e-05	7.028e-05	sefr_cs
99	-13.500	-3.560	-0.000	-1.768e-06	4.134e-04	4.152e-04	-4.168e-04	-3.112e-04	1.056e-04	3.359e-05	8.748e-05	5.388e-05	sefr_cs
100	-12.500	-3.560	-0.000	-2.574e-05	4.444e-04	4.701e-04	-4.512e-04	-3.570e-04	9.413e-05	5.849e-05	7.884e-05	2.035e-05	sefr_cs
101	-11.500	-3.560	-0.000	-5.229e-05	4.741e-04	5.264e-04	-4.866e-04	-3.959e-04	9.073e-05	8.339e-05	5.927e-05	-2.411e-05	sefr_cs
102	-10.500	-3.560	-0.000	-7.439e-05	5.134e-04	5.878e-04	-5.330e-04	-4.240e-04	1.090e-04	1.025e-04	3.238e-05	-7.016e-05	sefr_cs
103	-9.500	-3.560	-0.000	-8.309e-05	5.670e-04	6.500e-04	-5.926e-04	-4.351e-04	1.575e-04	1.061e-04	4.397e-06	-1.017e-04	sefr_cs
104	-8.500	-3.560	-0.000	-6.584e-05	6.182e-04	6.841e-04	-6.431e-04	-4.179e-04	2.252e-04	8.969e-05	-1.367e-05	-1.034e-04	sefr_cs
105	-7.500	-3.560	-0.000	-3.958e-05	6.476e-04	6.872e-04	-6.679e-04	-3.895e-04	2.784e-04	7.538e-05	-2.102e-05	-9.640e-05	sefr_cs
106	-6.500	-3.560	-0.000	-2.007e-05	6.570e-04	6.771e-04	-6.731e-04	-3.647e-04	3.083e-04	6.456e-05	-2.161e-05	-8.618e-05	sefr_cs
107	-5.500	-3.560	-0.000	-6.724e-06	6.522e-04	6.589e-04	-6.604e-04	-3.421e-04	3.225e-04	5.474e-05	-1.940e-05	-7.414e-05	sefr_cs
108	-4.500	-3.560	-0.000	-3.464e-06	6.352e-04	6.317e-04	-6.441e-04	-3.175e-04	3.266e-04	4.545e-05	-1.644e-05	-6.190e-05	sefr_cs
109	-3.500	-3.560	0.000	1.263e-05	-5.121e-06	-1.275e-05	-6.096e-04	-2.999e-04	3.098e-04	3.696e-05	2.332e-05	-1.163e-05	sefr_cs
110	-2.500	-3.560	0.000	2.108e-05	-1.495e-06	-2.758e-05	-5.561e-04	-2.695e-04	2.866e-04	2.898e-05	1.805e-05	-1.093e-05	sefr_cs
111	-1.500	-3.560	0.000	2.672e-05	-7.573e-07	-2.598e-05	-4.735e-04	-2.496e-04	2.485e-04	3.147e-04	1.040e-04	6.174e-05	sefr_cs
112	-0.500	-3.560	0.000	2.450e-05	-8.552e-07	-2.535e-05	-3.366e-04	-2.193e-04	1.825e-04	1.283e-05	7.410e-06	-5.418e-06	sefr_cs
113	-15.500	-3.185	0.000	1.031e-05	-2.565e-06	-1.287e-05	-2.929e-04	-1.530e-04	7.366e-05	4.598e-05	5.937e-05	5.477e-05	sefr_cs
114	-14.500	-3.185	0.000	1.020e-05	-2.729e-07	-1.047e-05	-3.965e-04	-2.882e-04	1.083e-04	1.830e-05	8.234e-05	6.405e-05	sefr_cs
115	-13.500	-3.185	0.000	-3.173e-06	-8.367e-07	2.337e-06	-4.501e-04	-2.288e-04	1.213e-04	4.828e-05	1.049e-04	6.267e-05	sefr_cs
116	-12.500	-3.185	0.000	-2.544e-06	-4.589e-06	2.085e-05	-4.867e-04	-3.386e-04	1.386e-04	7.085e-05	1.204e-04	4.960e-05	sefr_cs
117	-11.500	-3.185	0.000	-4.985e-05	-1.088e-05	3.897e-05	-5.239e-04	-3.652e-04	1.577e-04	9.870e-05	1.258e-04	2.707e-05	sefr_cs
118	-10.500	-3.185	0.000	-6.945e-05	-1.858e-05	5.088e-05	-5.732e-04	-3.728e-04	2.004e-04	1.191e-04	1.186e-04	-5.244e-07	sefr_cs
119	-9.500	-3.185	0.000	-7.672e-05	-2.522e-05	5.150e-05	-6.364e-04	-3.754e-04	2.610e-04	1.221e-04	9.537e-05	-2.670e-05	sefr_cs
120	-8.500	-3.185	0.000	-6.131e-05	-2.566e-05	3.578e-05	-6.900e-04	-3.753e-04	3.147e-04	1.040e-04	6.174e-05	-2.260e-05	sefr_cs
121	-7.500	-3.185	0.000	-3.806e-05	-2.166e-05	2.440e-05	-7.161e-04	-3.729e-04	3.433e-04	8.743e-05	3.957e-05	-4.786e-05	sefr_cs
122	-6.500	-3.185	0.000	-1.671e-05	-1.782e-05	-1.110e-06	-7.210e-04	-3.673e-04	3.537e-04	7.467e-05	2.799e-05	-4.668e-05	sefr_cs
123	-5.500	-3.185	0.000	-3.690e-06	-1.449e-05	-1.080e-05	-7.109e-04	-3.573e-04	3.536e-04	6.330e-05	2.089e-05	-4.241e-05	sefr_cs
124	-4.500	-3.185	0.000	5.855e-06	-1.122e-05	-1.708e-05	-6.880e-04	-3.419e-04	3.468e-04	5.268e-05	1.554e-05	-3.714e-05	sefr_cs
125	-3.500	-3.185	0.000	1.420e-05	-7.725e-06	-2.192e-05	-6.500e-04	-3.193e-04	3.307e-04	4.280e-05	1.116e-05	-3.164e-05	sefr_cs
126	-2.500	-3.185	0.000	2.185e-05	-4.235e-06	-2.609e-05	-5.911e-04	-2.863e-04	3.048e-04	3.369e-05	7.645e-06	-2.604e-05	sefr_cs
127	-1.500	-3.185	0.000	2.683e-05	-1.977e-06	-2.881e-05	-5.006e-04	-3.378e-04	2.627e-04	2.472e-05	4.670e-06	-2.006e-05	sefr_cs
128	-0.500	-3.185	0.000	2.416e-05	-3.470e-06	-2.763e-05	-3.526e-04	-1.613e-04	1.913e-04	1.498e-05	1.400e-06	-1.358e-05	sefr_cs
129	-15.500	-2.810	-0.000	6.800e-06	3.116e-06	3.051e-06	-3.110e-04	-2.783e-04	9.944e-05	7.939e-05	1.078e-05	-7.491e-05	sefr_cs
130	-14.500	-2.810	-0.000	6.710e-06	4.263e-04	4.196e-04	-4.234e-04	-2.961e-04	1.273e-04	2.494e-05	4.027e-05	1.533e-05	sefr_cs
131	-13.500	-2.810	-0.000	-4.704e-06	4.836e-04	4.883e-04	-4.813e-04	-3.515e-04	1.298e-04	5.251e-05	3.282e-05	-1.969e-05	sefr_cs
132	-12.500	-2.810	-0.000	-2.425e-05	5.182e-04	5.424e-04	-5.200e-04	-3.970e-04	1.230e-04	8.471e-05	1.505e-05	-6.965e-05	sefr_cs
133	-11.500	-2.810	-0.000	-4.556e-05	5.504e-04	5.959e-04	-5.590e-04	-4.326e-04	1.264e-04	1.151e-04	-1.018e-05	-1.253e-04	sefr_cs
134	-10.500	-2.810	-0.000	-6.216e-05	5.701e-04	6.112e-04	-5.945e-04	-4.613e-04	1.287e-04	1.123e-04	9.853e-05	-7.812e-05	sefr_cs
135	-9.500	-2.810	-0.000	-6.783e-05	-2.436e-04	4.346e-05	-6.777e-04	-3.969e-04	2.808e-04	1.389e-04	7.663e-05	-6.222e-05	sefr_cs
136	-8.500	-2.810	-0.000	-5.409e-05	-2.587e-04	2.822e-05	-7.340e-04	-3.967e-04	3.372e-04	1.195e-04	4.443e-05	-7.509e-05	sefr_cs
137	-7.500	-2.810	-0.000	-3.045e-05	-2.283e-05	-7.677e-06	-7.613e-04	-3.941e-04	3.672e-04	1.006e-04	2.224e-05	-7.831e-05	sefr_cs
138	-6.500	-2.810	-0.000	-1.934e-05	-1.850e-05	-7.577e-06	-7.874e-04	-3.881e-04	3.776e-04	8.570e-05	7.491e-05	-6.965e-05	sefr_cs
139	-5.500	-2.810	-0.000	-1.684e-05	-1.664e-05	-1.685e-05	-7.541e-04	-3.776e-04	3.765e-04	7.264e-05	4.402e-06	-8.824e-05	sefr_cs
140	-4.500	-2.810	-0.000	8.626e-06	-1.366e-05	-2.249e-05	-7.288e-04	-3.613e-04	3.675e-04	6.060e-05	3.017e-06	-6.030e-05	sefr_cs
141	-3.500	-2.810	-0.000	1.572e-05	-1.079e-05	-2.651e-05	-6.874e-04	-3.372e-04	3.502e-04	4.930e-05	-2.475e-06	-5.178e-05	sefr_cs
142	-2.500	-2.810	-0.000	2.228e-05	-7.542e-06	-2.982e-05	-6.236e-04	-3.019e-04	3.217e-04	3.897e-05	-3.904e-06	-4.287e-05	sefr_cs
143	-1.500	-2.810	-0.000	2.658e-05	-5.240e-06	-3.183e-05	-5.256e-04	-2.496e-04	2.759e-04	2.869e-05	-4.433e-06	-3.312e-05	sefr_cs

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144	-0.500	-2.810	0.000	2.367e-05	-6.168e-06	-3.013e-05	-3.672e-04	-1.678e-04	1.993e-04	1.746e-05	-5.033e-06	-2.249e-05	sefr_cs
145	-15.500	-2.435	-0.000	2.580e-06	3.133e-04	3.307e-04	-3.282e-04	-2.341e-04	9.406e-05	1.236e-05	1.790e-05	5.538e-06	sefr_cs
146	-14.500	-2.435	-0.000	2.704e-06	4.560e-04	4.533e-04	-4.492e-04	-3.137e-04	3.333e-05	2.338e-05	-2.058e-05	-1.176e-05	sefr_cs
147	-13.500	-2.435	-0.000	-6.193e-06	5.173e-04	5.235e-04	-5.113e-04	-3.697e-04	1.416e-04	6.464e-05	-1.827e-06	-6.647e-05	sefr_cs
148	-12.500	-2.435	-0.000	-2.222e-05	5.534e-04	5.757e-04	-5.519e-04	-4.132e-04	1.387e-04	1.003e-04	-2.453e-05	-1.249e-04	sefr_cs
149	-11.500	-2.435	-0.000	-3.963e-05	5.868e-04	6.265e-04	-5.928e-04	-4.457e-04	1.471e-04	1.333e-04	-5.245e-05	-1.857e-04	sefr_cs
150	-10.500	-2.435	-0.000	-5.270e-05	6.326e-04	6.853e-04	-6.476e-04	-4.668e-04	1.814e-04	1.555e-04	-8.054e-05	-2.361e-04	sefr_cs
151	-9.500	-2.435	-0.000	-5.649e-05	7.210e-04	7.339e-04	-7.180e-04	-4.166e-04	2.400e-04	1.686e-04	5.460e-05	-4.022e-04	sefr_cs
152	-8.500	-2.435	-0.000	-4.417e-05	-2.576e-05	1.841e-05	-7.754e-04	-4.164e-04	3.589e-04	1.361e-04	2.419e-05	-1.119e-04	sefr_cs
153	-7.500	-2.435	-0.000	-2.696e-05	-2.373e-05	-1.044e-06	-8.037e-04	-4.136e-04	3.901e-04	1.148e-04	2.504e-06	-1.123e-04	sefr_cs
154	-6.500	-2.435	-0.000	-5.731e-06	-2.112e-05	-1.539e-05	-8.074e-04	-4.073e-04	4.001e-04	9.795e-05	-8.440e-06	-1.060e-04	sefr_cs
155	-5.500	-2.435	-0.000	-8.76e-06	-2.280e-05	-7.733e-06	-8.170e-04	-3.903e-04	3.980e-04	8.370e-05	-1.384e-05	-9.701e-05	sefr_cs
156	-4.500	-2.435	-0.000	1.162e-05	-1.683e-05	-2.845e-05	-7.668e-04	-3.792e-04	3.876e-04	6.946e-05	-1.655e-05	-8.600e-05	sefr_cs
157	-3.500	-2.435	-0.000	1.433e-05	-1.746e-05	-3.488e-05	-7.274e-04	-3.686e-04	3.733e-04	6.946e-05	-1.655e-05	-8.600e-05	sefr_cs
158	-2.500	-2.435	-0.000	2.207e-05	-1.175e-05	-3.364e-05	-6.541e-04	-3.164e-04	3.377e-04	4.511e-05	-1.648e-05	-6.159e-05	sefr_cs
159	-1.500	-2.435	-0.000	2.563e-05	-9.243e-06	-3.487e-05	-5.919e-04	-2.606e-04	2.884e-04	3.344e-05	-1.419e-05	-4.763e-05	sefr_cs
160	-0.500	-2.435	-0.000	2.277e-05	-1.000e-05	-3.277e-05	-3.805e-04	-1.736e-04	2.089e-04	2.040e-05	-1.180e-05	-3.220e-05	sefr_cs
161	-15.000	-2.060	-0.000	-1.417e-06	1.168e-05	1.305e-05	-4.745e-04	-3.291e-04	1.454e-04	4.365e-05	2.371e-05	-1.993e-05	sefr_cs
162	-14.500	-2.060	-0.000	-1.417e-06	1.168e-05	1.305e-05	-4.745e-04	-3.291e-04	1.454e-04	4.365e-05	2.371e-05	-1.993e-05	sefr_cs
163	-13.500	-2.060	-0.000	-7.490e-06	1.056e-05	1.805e-05	-5.406e-04	-3.791e-04	1.616e-04	7.901e-05	3.711e-05	-1.469e-05	sefr_cs
164	-12.500	-2.060	-0.000	-1.945e-05	5.486e-06	2.494e-05	-5.831e-04	-4.078e-04	1.752e-04	1.182e-04	4.853e-05	-6.969e-05	sefr_cs
165	-11.500	-2.060	-0.000	-3.228e-05	-2.777e-06	2.000e-05	-6.208e-04	-4.323e-04	1.752e-04	1.182e-04	4.853e-05	-6.969e-05	sefr_cs
166	-10.500	-2.060	-0.000	-1.328e-05	9.611e-06	1.827e-05	-4.323e-04	-2.515e-04	1.762e-04	1.762e-04	4.783e-05	-2.783e-04	sefr_cs
167	-9.500	-2.060	-0.000	-4.276e-05	-2.151e-05	2.125e-05	-7.541e-04	-4.345e-04	3.196e-04	1.766e-04	2.910e-05	-1.475e-04	sefr_cs
168	-8.500	-2.060	-0.000	-3.166e-05	-2.533e-05	6.228e-06	-8.145e-04	-4.354e-04	3.800e-04	1.544e-04	7.488e-07	-1.537e-04	sefr_cs
169	-7.500	-2.060	-0.000	-1.287e-05	-2.444e-05	-1.156e-05	-8.435e-04	-4.315e-04	4.120e-04	1.308e-04	-1.995e-05	-1.507e-04	sefr_cs
170	-6.500	-2.060	-0.000	-1.012e-05	-2.137e-05	-3.149e-05	-8.319e-04	-4.135e-04	4.184e-04	9.499e-05	-3.430e-05	-1.293e-04	sefr_cs
171	-5.500	-2.060	-0.000	1.012e-05	-2.137e-05	-3.149e-05	-8.319e-04	-4.135e-04	4.184e-04	9.499e-05	-3.430e-05	-1.293e-04	sefr_cs
172	-4.500	-2.060	-0.000	1.459e-05	-2.021e-05	-3.481e-05	-8.024e-04	-3.957e-04	4.066e-04	7.965e-05	-3.532e-05	-1.150e-04	sefr_cs
173	-3.500	-2.060	-0.000	1.761e-05	-1.870e-05	-3.634e-05	-7.553e-04	-3.692e-04	3.806e-04	6.548e-05	-3.403e-05	-9.951e-05	sefr_cs
174	-2.500	-2.060	-0.000	1.659e-05	-1.659e-05	-3.893e-05	-7.893e-04	-3.603e-04	3.806e-04	6.548e-05	-3.403e-05	-9.951e-05	sefr_cs
175	-1.500	-2.060	-0.000	2.345e-05	-1.425e-05	-3.769e-05	-5.715e-04	-2.710e-04	3.005e-04	3.931e-05	-2.483e-05	-6.414e-05	sefr_cs
176	-0.500	-2.060	-0.000	2.106e-05	-1.432e-05	-3.538e-05	-3.930e-04	-1.789e-04	2.141e-04	2.416e-05	-1.889e-05	-4.305e-05	sefr_cs
177	-15.500	-1.685	-0.000	-6.363e-06	3.780e-04	3.843e-04	-3.611e-04	-2.576e-04	1.035e-04	2.629e-05	-3.196e-05	-8.825e-05	sefr_cs
178	-14.500	-1.685	-0.000	-5.551e-06	5.121e-04	5.228e-04	-5.099e-04	-3.611e-04	1.035e-04	2.629e-05	-3.196e-05	-8.825e-05	sefr_cs
179	-13.500	-1.685	-0.000	-1.932e-06	6.033e-05	5.422e-05	-5.697e-04	-3.933e-04	1.764e-04	9.643e-05	1.9135e-06	-7.579e-05	sefr_cs
180	-12.500	-1.685	-0.000	-1.598e-05	1.001e-05	2.599e-05	-6.138e-04	-4.230e-04	1.980e-04	1.389e-04	1.808e-05	-1.209e-04	sefr_cs
181	-11.500	-1.685	-0.000	-2.353e-05	7.759e-07	2.430e-05	-6.577e-04	-4.390e-04	2.187e-04	1.783e-04	2.200e-05	-1.543e-04	sefr_cs
182	-10.500	-1.685	-0.000	-2.765e-05	-9.376e-06	1.771e-05	-6.577e-04	-4.390e-04	2.187e-04	1.783e-04	2.200e-05	-1.543e-04	sefr_cs
183	-9.500	-1.685	-0.000	-2.765e-05	-9.376e-06	1.771e-05	-6.577e-04	-4.390e-04	2.187e-04	1.783e-04	2.200e-05	-1.543e-04	sefr_cs
184	-8.500	-1.685	-0.000	-1.648e-05	-2.459e-05	-8.111e-06	-8.531e-04	-4.506e-04	4.097e-04	1.751e-04	-2.559e-05	-2.007e-04	sefr_cs
185	-7.500	-1.685	-0.000	-1.074e-06	-2.495e-05	-2.387e-05	-8.806e-04	-4.475e-04	4.330e-04	1.489e-04	-4.488e-05	-1.938e-04	sefr_cs
186	-6.500	-1.685	-0.000	1.023e-05	-2.430e-05	-3.452e-05	-8.827e-04	-4.407e-04	4.420e-04	1.274e-04	-5.395e-05	-1.814e-04	sefr_cs
187	-5.500	-1.685	-0.000	1.023e-05	-2.430e-05	-3.452e-05	-8.827e-04	-4.407e-04	4.420e-04	1.274e-04	-5.395e-05	-1.814e-04	sefr_cs
188	-4.500	-1.685	-0.000	1.721e-05	-2.405e-05	-4.129e-05	-8.354e-04	-4.166e-04	4.248e-04	9.158e-05	-5.595e-05	-1.475e-04	sefr_cs
189	-3.500	-1.685	-0.000	1.726e-05	-2.383e-05	-4.109e-05	-7.860e-04	-3.833e-04	4.027e-04	7.588e-05	-5.228e-05	-1.282e-04	sefr_cs
190	-2.500	-1.685	-0.000	1.774e-05	-2.271e-05	-4.054e-05	-7.116e-04	-3.476e-04	3.678e-04	6.134e-05	-4.570e-05	-1.070e-04	sefr_cs
191	-1.500	-1.685	-0.000	1.774e-05	-2.271e-05	-4.054e-05	-7.116e-04	-3.476e-04	3.678e-04	6.134e-05	-4.570e-05	-1.070e-04	sefr_cs
192	-0.500	-1.685	-0.000	1.780e-05	-1.987e-05	-3.767e-05	-6.049e-04	-1.836e-04	2.213e-04	2.927e-05	-2.609e-05	-5.365e-05	sefr_cs
193	-15.500	-1.310	-0.000	-9.558e-06	2.549e-05	3.504e-05	-3.773e-04	-2.573e-04	1.201e-04	3.715e-05	-2.529e-05	-6.279e-05	sefr_cs
194	-14.500	-1.310	-0.000	-7.581e-06	2.577e-05	3.335e-05	-5.253e-04	-3.517e-04	1.736e-04	7.419e-05	-2.636e-05	-1.060e-04	sefr_cs
195	-13.500	-1.310	-0.000	-2.951e-06	2.951e-05	3.335e-05	-5.253e-04	-3.517e-04	1.736e-04	7.419e-05	-2.636e-05	-1.060e-04	sefr_cs
196	-12.500	-1.310	-0.000	-1.183e-05	6.590e-04	6.708e-04	-6.439e-04	-4.480e-04	3.959e-04	1.640e-04	-1.793e-04	-3.433e-04	sefr_cs
197	-11.500	-1.310	-0.000	-1.342e-05	4.616e-06	1.804e-05	-6.889e-04	-5.423e-04	2.366e-04	2.003e-04	-1.222e-05	-2.155e-04	sefr_cs
198	-10.500	-1.310	-0.000	-1.818e-05	-3.073e-06	4.774e-06	-7.489e-04	-6.403e-04	2.886e-04	2.267e-04	-1.635e-05	-2.431e-04	sefr_cs
199	-9.500	-1.310	-0.000	-2.325e-06	-2.361e-05	-2.493e-05	-8.851e-04	-6.446e-04	4.211e-04	1.291e-04	-5.460e-05	-2.537e-04	sefr_cs
200	-8.500	-1.310	-0.000	-2.325e-06	-2.361e-05	-2.493e-05	-8.851e-04	-6.446e-04	4.211e-04	1.291e-04	-5.460e-05	-2.537e-04	sefr_cs

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48	-6.500	-5.167	0.000	-5.808e-06	-1.216e-05	-6.352e-06	-4.436e-04	-1.338e-04	3.098e-04	-3.964e-05	1.435e-06	4.107e-05	pefr_cs
49	-5.500	-5.167	0.000	3.679e-06	-6.066e-05	-1.254e-05	-4.360e-04	-1.494e-04	2.866e-04	-4.157e-05	-3.470e-06	3.810e-05	pefr_cs
50	-4.500	-5.167	0.000	1.549e-05	2.947e-06	-1.519e-05	-4.163e-04	-1.450e-04	2.713e-04	-3.624e-05	-1.805e-06	3.444e-05	pefr_cs
51	-3.500	-5.167	0.000	2.000	1.217e-05	-1.519e-05	-4.163e-04	-1.450e-04	2.713e-04	-3.624e-05	-1.805e-06	3.444e-05	pefr_cs
52	-2.500	-5.167	0.000	3.660e-05	1.921e-05	-1.739e-05	-3.834e-04	-1.311e-04	2.523e-04	-2.787e-05	1.281e-06	2.915e-05	pefr_cs
53	-1.500	-5.167	0.000	4.113e-05	2.258e-05	-1.855e-05	-3.333e-04	-1.191e-04	2.267e-04	-1.971e-05	1.281e-06	2.915e-05	pefr_cs
54	-0.500	-5.167	0.000	3.692e-05	2.040e-05	-1.652e-05	-2.489e-04	-6.561e-05	1.833e-04	-1.149e-05	6.410e-07	1.213e-05	pefr_cs
55	-17.500	-4.833	0.000	-3.934e-05	2.514e-04	2.907e-04	-2.652e-04	-1.501e-04	1.151e-04	4.351e-06	1.509e-05	1.074e-05	pefr_cs
56	-16.500	-4.833	0.000	-4.791e-05	3.420e-04	3.890e-04	-2.604e-04	-2.043e-04	1.561e-04	6.509e-06	2.009e-05	1.358e-05	pefr_cs
57	-15.500	-4.833	0.000	-4.872e-05	3.992e-04	4.480e-04	-1.822e-04	-2.311e-04	1.871e-04	7.982e-06	2.232e-05	1.425e-05	pefr_cs
58	-14.500	-4.833	0.000	-4.639e-05	4.408e-04	4.972e-04	-4.585e-04	-2.442e-04	2.142e-04	9.488e-06	2.436e-05	1.425e-05	pefr_cs
59	-13.500	-4.833	0.000	-4.204e-05	4.716e-04	5.136e-04	-4.855e-04	-2.462e-04	2.403e-04	1.161e-05	1.914e-05	7.531e-06	pefr_cs
60	-12.500	-4.833	0.000	-3.605e-05	4.910e-04	5.270e-04	-5.024e-04	-2.356e-04	2.668e-04	1.522e-05	1.421e-05	1.004e-06	pefr_cs
61	-11.500	-4.833	0.000	-3.000e-05	4.960e-04	5.260e-04	-5.052e-04	-2.132e-04	2.921e-04	1.732e-05	8.672e-06	8.450e-06	pefr_cs
62	-10.500	-4.833	0.000	-2.607e-05	4.907e-04	5.168e-04	-5.013e-04	-1.890e-04	3.122e-04	1.138e-05	6.664e-06	4.716e-06	pefr_cs
63	-9.500	-4.833	0.000	-2.356e-05	4.860e-04	5.095e-04	-5.000e-04	-1.739e-04	3.261e-04	-2.786e-06	8.180e-06	1.097e-05	pefr_cs
64	-8.500	-4.833	0.000	-1.878e-05	4.876e-04	5.074e-04	-5.039e-04	-1.689e-04	3.350e-04	-1.944e-05	1.140e-05	3.084e-05	pefr_cs
65	-7.500	-4.833	0.000	-1.334e-05	4.951e-04	5.084e-04	-5.105e-04	-1.705e-04	3.401e-04	-3.647e-05	1.611e-05	5.257e-05	pefr_cs
66	-6.500	-4.833	0.000	-4.301e-06	5.052e-04	5.095e-04	-5.162e-04	-1.741e-04	3.422e-04	-4.751e-05	1.958e-05	6.750e-05	pefr_cs
67	-5.500	-4.833	0.000	7.061e-06	5.134e-04	5.061e-04	-5.166e-04	-1.742e-04	3.424e-04	-5.405e-05	2.163e-05	7.568e-05	pefr_cs
68	-4.500	-4.833	0.000	2.016e-05	5.134e-04	4.933e-04	-5.066e-04	-1.655e-04	3.411e-04	-5.084e-05	2.000e-05	7.084e-05	pefr_cs
69	-3.500	-4.833	0.000	3.285e-05	4.996e-04	4.667e-04	-4.828e-04	-1.464e-04	3.364e-04	-4.361e-05	1.719e-05	6.080e-05	pefr_cs
70	-2.500	-4.833	0.000	4.243e-05	4.674e-04	4.250e-04	-4.432e-04	-1.195e-04	3.237e-04	-3.399e-05	1.377e-05	4.725e-05	pefr_cs
71	-1.500	-4.833	0.000	4.645e-05	4.104e-04	3.639e-04	-3.829e-04	-8.602e-05	2.967e-04	-2.408e-05	7.970e-06	3.205e-05	pefr_cs
72	-0.500	-4.833	0.000	4.611e-05	3.064e-04	2.662e-04	-2.819e-04	-4.278e-05	2.397e-04	-1.421e-05	-4.841e-06	1.416e-05	pefr_cs
73	-17.500	-4.500	0.000	-4.057e-05	-1.478e-05	2.587e-05	-2.889e-04	-1.225e-04	1.664e-04	5.074e-06	1.451e-05	9.437e-06	pefr_cs
74	-16.500	-4.500	0.000	-5.134e-05	-2.077e-05	3.057e-05	-3.976e-04	-1.751e-04	2.226e-04	7.615e-06	1.957e-05	1.196e-05	pefr_cs
75	-15.500	-4.500	0.000	-5.379e-05	-2.256e-05	3.122e-05	-4.642e-04	-2.056e-04	2.585e-04	9.526e-06	2.148e-05	1.205e-05	pefr_cs
76	-14.500	-4.500	0.000	-5.298e-05	-2.254e-05	3.044e-05	-5.103e-04	-2.249e-04	2.861e-04	1.086e-05	2.057e-05	9.705e-06	pefr_cs
77	-13.500	-4.500	0.000	-5.034e-05	-2.130e-05	2.930e-05	-5.424e-04	-2.327e-04	3.097e-04	1.307e-05	1.779e-05	4.722e-06	pefr_cs
78	-12.500	-4.500	0.000	-4.600e-05	-1.920e-05	2.680e-05	-5.607e-04	-2.291e-04	3.316e-04	1.694e-05	1.375e-05	-1.193e-06	pefr_cs
79	-11.500	-4.500	0.000	-4.067e-05	-1.768e-05	2.299e-05	-5.641e-04	-2.122e-04	3.519e-04	1.940e-05	7.180e-06	-1.222e-05	pefr_cs
80	-10.500	-4.500	0.000	-3.577e-05	-1.838e-05	1.739e-05	-5.597e-04	-1.907e-04	3.690e-04	1.255e-05	-5.101e-06	-1.765e-05	pefr_cs
81	-9.500	-4.500	0.000	-3.073e-05	-1.995e-05	1.078e-05	-5.588e-04	-1.771e-04	3.811e-04	-3.908e-06	-2.191e-05	-1.800e-05	pefr_cs
82	-8.500	-4.500	0.000	-2.360e-05	-1.960e-05	4.000e-06	-5.639e-04	-1.773e-04	3.866e-04	-2.353e-05	-3.861e-05	-1.508e-05	pefr_cs
83	-7.500	-4.500	0.000	-1.376e-05	-5.559e-04	5.697e-04	-5.719e-04	-2.003e-04	3.716e-04	-4.234e-05	-9.876e-06	2.247e-05	pefr_cs
84	-6.500	-4.500	0.000	-1.945e-06	-9.182e-06	-7.237e-06	-5.786e-04	-2.005e-04	3.781e-04	-5.629e-05	-6.063e-05	-4.340e-06	pefr_cs
85	-5.500	-4.500	0.000	1.118e-05	2.388e-07	-1.094e-05	-5.789e-04	-2.127e-04	3.631e-04	-6.822e-05	-6.330e-05	-4.791e-07	pefr_cs
86	-4.500	-4.500	0.000	2.512e-05	1.121e-05	-1.390e-05	-5.671e-04	-2.167e-04	3.504e-04	-5.994e-05	-5.991e-05	2.569e-08	pefr_cs
87	-3.500	-4.500	0.000	3.806e-05	2.152e-05	-1.653e-05	-5.394e-04	-2.085e-04	3.309e-04	-5.097e-05	-5.252e-05	-1.550e-06	pefr_cs
88	-2.500	-4.500	0.000	4.747e-05	2.899e-05	-1.848e-05	-4.936e-04	-1.879e-04	3.057e-04	-3.983e-05	-4.380e-05	-3.969e-06	pefr_cs
89	-1.500	-4.500	0.000	5.072e-05	3.202e-05	-1.869e-05	-4.240e-04	-1.535e-04	2.705e-04	-2.842e-05	-3.585e-05	-7.429e-06	pefr_cs
90	-0.500	-4.500	0.000	4.254e-05	2.811e-05	-1.780e-05	-3.085e-04	-1.581e-04	2.127e-04	-1.693e-05	-2.938e-05	-1.300e-05	pefr_cs
91	-17.500	-4.167	0.000	-4.138e-05	2.919e-04	3.145e-04	-3.086e-04	-1.736e-04	1.350e-04	5.821e-06	3.652e-06	2.169e-06	pefr_cs
92	-16.500	-4.167	0.000	-5.380e-05	4.067e-04	4.605e-04	-4.294e-04	-2.148e-04	1.846e-04	8.773e-06	3.689e-06	-5.136e-06	pefr_cs
93	-15.500	-4.167	0.000	-5.791e-05	4.781e-04	5.360e-04	-5.039e-04	-2.836e-04	2.203e-04	1.068e-05	1.577e-06	-9.107e-06	pefr_cs
94	-14.500	-4.167	0.000	-5.890e-05	5.828e-04	5.871e-04	-5.554e-04	-3.060e-04	2.494e-04	1.272e-05	-2.890e-06	-1.507e-06	pefr_cs
95	-13.500	-4.167	0.000	-5.847e-05	6.218e-04	6.218e-04	-5.911e-04	-3.150e-04	2.752e-04	1.439e-05	-1.024e-05	-2.463e-05	pefr_cs
96	-12.500	-4.167	0.000	-5.229e-05	5.842e-04	6.404e-04	-6.116e-04	-3.117e-04	3.004e-04	1.839e-05	-2.131e-05	-3.970e-05	pefr_cs
97	-11.500	-4.167	0.000	-5.616e-05	5.886e-04	6.407e-04	-6.154e-04	-2.896e-04	3.258e-04	2.127e-05	-3.444e-05	-5.571e-05	pefr_cs
98	-10.500	-4.167	0.000	-4.640e-05	5.835e-04	6.299e-04	-6.105e-04	-2.608e-04	3.476e-04	1.359e-05	-5.722e-06	-4.464e-05	pefr_cs
99	-9.500	-4.167	0.000	-3.848e-05	5.836e-04	6.220e-04	-6.099e-04	-2.395e-04	3.704e-04	5.722e-06	-4.464e-05	-4.464e-05	pefr_cs
100	-8.500	-4.167	0.000	-2.745e-05	5.833e-04	6.208e-04	-6.162e-04	-2.288e-04	3.846e-04	-2.739e-05	-4.416e-05	-1.677e-05	pefr_cs
101	-7.500	-4.167	0.000	-1.372e-05	6.096e-04	6.233e-04	-6.256e-04	-2.257e-04	4.000e-04	-4.878e-05	-3.810e-05	1.068e-05	pefr_cs
102	-6.500	-4.167	0.000	1.157e-06	-6.647e-06	-7.805e-06	-6.333e-04	-2.273e-04	4.060e-04	-6.483e-05	-9.535e-05	-3.052e-05	pefr_cs
103	-5.500	-4.167	0.000	1.599e-05	-4.381e-06	-1.161e-05	-6.335e-04	-2.403e-04	3.932e-04	-7.193e-05	-9.637e-05	-2.446e-05	pefr_cs
104	-4.500	-4.167	0.000	3.039e-05	-1.598e-05	-1.441e-05	-6.200e-04	-2.439e-04	3.761e-04	-6.853e-05	-9.040e-05	-2.187e-05	pefr_cs

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105	-3.500	-4.167	0.000	0.000	5.196e-05	6.151e-04	5.720e-04	-5.887e-04	-1.910e-04	3.978e-04	-5.827e-05	-2.168e-05	3.659e-05	pefr_cs
106	-2.500	-4.167	0.000	5.196e-05	5.708e-04	5.188e-04	-5.772e-04	-1.584e-04	3.788e-04	-4.567e-05	-2.235e-05	2.325e-05	pefr_cs	
107	-1.500	-4.167	0.000	5.432e-05	4.953e-04	4.410e-04	-4.590e-04	-1.170e-04	3.420e-04	-3.265e-05	-2.376e-05	8.890e-06	pefr_cs	
108	-0.500	-4.167	0.000	4.406e-05	6.323e-04	3.177e-04	-3.305e-04	-6.210e-05	2.684e-04	-1.957e-05	-2.673e-05	-7.155e-06	pefr_cs	
109	-17.500	-3.833	0.000	-4.171e-05	-1.593e-05	2.578e-05	-3.255e-04	-1.405e-04	1.850e-04	6.661e-06	4.304e-06	-2.357e-06	pefr_cs	
110	-16.500	-3.833	0.000	-5.549e-05	-2.414e-05	3.134e-05	-4.570e-04	-2.048e-04	2.522e-04	1.014e-05	5.115e-06	-5.020e-06	pefr_cs	
111	-15.500	-3.833	0.000	-6.118e-05	-2.849e-05	3.269e-05	-5.189e-04	-2.457e-04	2.227e-04	6.189e-06	4.867e-06	-9.507e-06	pefr_cs	
112	-14.500	-3.833	0.000	-6.413e-05	-3.157e-05	3.256e-05	-5.953e-04	-2.674e-04	2.327e-04	1.364e-05	-2.280e-06	-1.592e-06	pefr_cs	
113	-13.500	-3.833	0.000	-6.617e-05	-3.415e-05	3.201e-05	-6.342e-04	-2.794e-04	3.549e-04	1.566e-05	-1.010e-05	-2.577e-05	pefr_cs	
114	-12.500	-3.833	0.000	-6.674e-05	-3.590e-05	3.084e-05	-6.565e-04	-2.776e-04	3.790e-04	1.957e-05	-2.050e-05	-4.007e-05	pefr_cs	
115	-11.500	-3.833	0.000	-6.428e-05	-3.658e-05	2.770e-05	-6.606e-04	-2.595e-04	4.020e-04	2.307e-05	-3.468e-05	-5.770e-05	pefr_cs	
116	-10.500	-3.833	0.000	-5.782e-05	-3.613e-05	2.770e-05	-6.606e-04	-2.595e-04	4.020e-04	2.307e-05	-3.468e-05	-5.770e-05	pefr_cs	
117	-9.500	-3.833	0.000	-4.675e-05	-3.305e-05	1.371e-05	-6.549e-04	-2.747e-04	4.176e-04	2.817e-05	-3.468e-05	-5.770e-05	pefr_cs	
118	-8.500	-3.833	0.000	-3.326e-05	-3.084e-05	1.371e-05	-6.549e-04	-2.747e-04	4.176e-04	2.817e-05	-3.468e-05	-5.770e-05	pefr_cs	
119	-7.500	-3.833	0.000	-1.324e-05	6.576e-04	6.708e-04	-6.733e-04	-2.274e-04	4.402e-04	-3.123e-05	-1.068e-04	-7.560e-05	pefr_cs	
120	-6.500	-3.833	0.000	4.951e-05	-3.446e-06	-8.397e-06	-6.819e-04	-2.508e-04	4.311e-04	-7.282e-05	-1.320e-04	-5.921e-05	pefr_cs	
121	-5.500	-3.833	0.000	2.145e-05	9.186e-06	-1.227e-05	-6.820e-04	-2.646e-04	4.176e-04	-8.017e-05	-1.320e-04	-5.921e-05	pefr_cs	
122	-4.500	-3.833	0.000	3.596e-06	1.122e-05	-1.675e-05	-6.323e-04	-2.565e-04	3.758e-04	-6.530e-05	-1.085e-04	-4.321e-05	pefr_cs	
123	-3.500	-3.833	0.000	5.599e-05	3.806e-05	-1.793e-05	-5.753e-04	-2.300e-04	3.454e-04	-5.120e-05	-9.307e-05	-4.186e-05	pefr_cs	
124	-2.500	-3.833	0.000	5.743e-05	4.039e-05	-1.740e-05	-4.892e-04	-1.866e-04	3.026e-04	-3.685e-05	-7.740e-05	-4.119e-05	pefr_cs	
125	-1.500	-3.833	0.000	4.645e-05	3.541e-05	-1.740e-05	-4.892e-04	-1.866e-04	3.026e-04	-3.685e-05	-7.740e-05	-4.119e-05	pefr_cs	
126	-0.500	-3.833	0.000	4.645e-05	3.541e-05	-1.740e-05	-4.892e-04	-1.866e-04	3.026e-04	-3.685e-05	-7.740e-05	-4.119e-05	pefr_cs	
127	-17.500	-3.500	-0.000	-5.647e-05	4.564e-04	5.129e-04	-4.816e-04	-2.735e-04	2.081e-04	1.159e-05	-1.405e-05	-2.564e-05	pefr_cs	
128	-16.500	-3.500	-0.000	-6.360e-05	5.395e-04	6.031e-04	-5.703e-04	-3.228e-04	2.274e-04	1.397e-05	-2.084e-05	-3.481e-05	pefr_cs	
129	-14.500	-3.500	-0.000	-6.859e-05	5.956e-04	6.641e-04	-6.167e-04	-3.276e-04	2.081e-04	1.397e-05	-2.084e-05	-3.481e-05	pefr_cs	
130	-13.500	-3.500	-0.000	-7.171e-05	6.521e-04	7.239e-04	-6.367e-04	-3.723e-04	3.005e-04	1.689e-05	-4.193e-05	-5.892e-05	pefr_cs	
131	-12.500	-3.500	-0.000	-7.714e-05	6.521e-04	7.239e-04	-6.367e-04	-3.748e-04	3.218e-04	2.078e-05	-5.959e-05	-8.036e-05	pefr_cs	
132	-11.500	-3.500	-0.000	-7.688e-05	6.542e-04	7.311e-04	-7.010e-04	-3.559e-04	3.451e-04	2.452e-05	-6.187e-05	-1.064e-04	pefr_cs	
133	-10.500	-3.500	-0.000	-6.994e-05	6.490e-04	7.189e-04	-6.949e-04	-3.723e-04	3.723e-04	2.452e-05	-6.187e-05	-1.064e-04	pefr_cs	
134	-9.500	-3.500	-0.000	-6.994e-05	6.490e-04	7.189e-04	-6.949e-04	-3.723e-04	3.723e-04	2.452e-05	-6.187e-05	-1.064e-04	pefr_cs	
135	-8.500	-3.500	-0.000	-3.250e-05	6.744e-04	7.095e-04	-7.036e-04	-2.757e-04	4.279e-04	-3.510e-05	-1.093e-04	-7.419e-05	pefr_cs	
136	-7.500	-3.500	-0.000	-1.735e-05	7.009e-04	7.132e-04	-7.158e-04	-2.661e-04	4.497e-04	-6.108e-05	-1.019e-04	-4.087e-05	pefr_cs	
137	-6.500	-3.500	-0.000	9.411e-06	7.259e-04	7.164e-04	-7.255e-04	-2.623e-04	4.631e-04	-8.063e-05	-9.822e-05	-3.919e-05	pefr_cs	
138	-5.500	-3.500	-0.000	2.733e-05	7.401e-04	7.164e-04	-7.255e-04	-2.623e-04	4.631e-04	-8.063e-05	-9.822e-05	-3.919e-05	pefr_cs	
139	-4.500	-3.500	-0.000	2.733e-05	7.401e-04	7.164e-04	-7.255e-04	-2.623e-04	4.631e-04	-8.063e-05	-9.822e-05	-3.919e-05	pefr_cs	
140	-3.500	-3.500	-0.000	2.733e-05	7.401e-04	7.164e-04	-7.255e-04	-2.623e-04	4.631e-04	-8.063e-05	-9.822e-05	-3.919e-05	pefr_cs	
141	-2.500	-3.500	-0.000	5.265e-05	7.071e-04	6.545e-04	-6.710e-04	-2.237e-04	4.473e-04	-7.222e-05	-6.600e-05	-6.207e-06	pefr_cs	
142	-1.500	-3.500	-0.000	5.955e-05	4.233e-05	-1.722e-05	-6.091e-04	-2.471e-04	3.619e-04	-5.660e-05	-1.190e-04	-6.207e-06	pefr_cs	
143	-0.500	-3.500	-0.000	6.011e-05	4.427e-05	-1.563e-05	-6.348e-04	-1.232e-04	2.416e-04	-2.470e-05	-8.093e-05	-5.629e-05	pefr_cs	
144	-17.500	-3.167	0.000	-4.320e-05	-1.607e-05	2.583e-05	-3.533e-04	-1.539e-04	1.995e-04	8.872e-06	-6.517e-06	-1.539e-05	pefr_cs	
145	-16.500	-3.167	-0.000	-5.673e-05	4.781e-04	5.348e-04	-5.039e-04	-2.848e-04	2.191e-04	1.339e-05	-2.368e-05	-3.707e-05	pefr_cs	
146	-15.500	-3.167	-0.000	-6.510e-05	5.664e-04	6.155e-04	-5.636e-04	-3.739e-04	2.898e-04	1.722e-05	-4.413e-05	-6.135e-05	pefr_cs	
147	-14.500	-3.167	-0.000	-7.995e-05	6.613e-04	7.412e-04	-7.075e-04	-3.962e-04	3.113e-04	1.846e-05	-5.883e-05	-7.728e-05	pefr_cs	
148	-13.500	-3.167	-0.000	-8.728e-05	6.796e-04	7.668e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
149	-12.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
150	-11.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
151	-10.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
152	-9.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
153	-8.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
154	-7.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
155	-6.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
156	-5.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
157	-4.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
158	-3.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
159	-2.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	
160	-1.500	-3.167	-0.000	-8.981e-05	6.797e-04	7.695e-04	-7.327e-04	-4.029e-04	3.298e-04	2.194e-05	-7.978e-05	-1.017e-04	pefr_cs	

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276	-12.500	-0.833	-0.000	-1.332e-04	-1.040e-04	2.928e-05	-9.05e-04	-3.871e-04	5.186e-04	5.219e-05	-2.012e-04	-2.534e-04	pcfr_cs
277	-11.500	-0.833	-0.000	-1.812e-04	7.639e-04	9.451e-04	-9.062e-04	-5.453e-04	3.609e-04	4.730e-05	-3.105e-04	-3.578e-04	pcfr_cs
278	-10.500	-0.833	-0.000	-1.817e-04	-1.440e-04	3.775e-04	-8.832e-04	-3.289e-04	5.643e-04	2.512e-05	-3.556e-04	-3.807e-04	pcfr_cs
279	-9.500	-0.833	-0.000	-1.263e-04	7.856e-04	9.120e-04	-8.896e-04	-4.321e-04	4.548e-04	-1.853e-05	-4.264e-04	-4.078e-04	pcfr_cs
280	-8.500	-0.833	-0.000	-5.493e-05	-4.424e-05	1.070e-05	-8.956e-04	-3.064e-04	5.892e-04	-6.615e-05	-5.067e-04	-4.406e-04	pcfr_cs
281	-7.500	-0.833	-0.000	1.293e-05	9.250e-04	9.121e-04	-9.136e-04	-3.127e-04	6.009e-04	-1.078e-04	-4.289e-04	-3.211e-04	pcfr_cs
282	-6.500	-0.833	-0.000	6.455e-05	5.529e-05	-9.257e-06	-9.312e-04	-3.530e-04	5.782e-04	-1.368e-04	-5.343e-04	-3.974e-04	pcfr_cs
283	-5.500	-0.833	-0.000	8.764e-05	7.719e-05	-1.045e-05	-9.366e-04	-1.758e-04	5.608e-04	-1.473e-04	-5.035e-04	-3.562e-04	pcfr_cs
284	-4.500	-0.833	-0.000	7.975e-05	7.431e-05	-5.440e-06	-9.170e-04	-3.804e-04	5.366e-04	-1.360e-04	-4.553e-04	-3.192e-04	pcfr_cs
285	-3.500	-0.833	-0.000	5.858e-05	5.964e-05	1.058e-05	-8.674e-04	-3.628e-04	5.046e-04	-1.120e-04	-4.033e-04	-2.913e-04	pcfr_cs
286	-2.500	-0.833	-0.000	4.087e-05	4.680e-05	5.933e-06	-7.834e-04	-3.228e-04	4.606e-04	-8.49e-05	-3.504e-04	-2.654e-04	pcfr_cs
287	-1.500	-0.833	-0.000	3.102e-05	4.004e-05	9.024e-06	-6.500e-04	-2.540e-04	3.959e-04	-5.746e-05	-2.912e-04	-2.338e-04	pcfr_cs
288	-0.500	-0.833	-0.000	2.643e-05	3.806e-05	1.163e-05	-4.321e-04	-1.395e-04	2.926e-04	-3.024e-05	-2.215e-04	-1.913e-04	pcfr_cs
289	-17.500	-0.500	-0.000	2.013e-05	2.591e-05	5.773e-06	-4.388e-04	-1.794e-04	2.593e-04	6.411e-05	-4.430e-05	-1.084e-04	pcfr_cs
290	-16.500	-0.500	-0.000	1.169e-05	1.335e-05	1.666e-06	-6.495e-04	-2.828e-04	3.667e-04	7.896e-05	-8.028e-05	-1.592e-04	pcfr_cs
291	-15.500	-0.500	-0.000	-1.192e-05	-8.212e-06	3.711e-06	-7.746e-04	-3.420e-04	4.326e-04	8.273e-05	-1.118e-04	-1.946e-04	pcfr_cs
292	-14.500	-0.500	-0.000	-4.415e-05	-3.545e-05	8.700e-06	-8.528e-04	-3.749e-04	4.779e-04	8.210e-05	-1.407e-04	-2.228e-04	pcfr_cs
293	-13.500	-0.500	-0.000	-8.405e-05	-6.830e-05	1.575e-05	-9.001e-04	-3.885e-04	5.116e-04	7.852e-05	-1.714e-04	-2.499e-04	pcfr_cs
294	-12.500	-0.500	-0.000	-1.346e-04	-1.096e-04	2.502e-05	-9.222e-04	-3.839e-04	5.383e-04	7.224e-05	-2.118e-04	-2.841e-04	pcfr_cs
295	-11.500	-0.500	-0.000	-1.919e-04	-1.554e-04	3.650e-05	-9.216e-04	-3.608e-04	5.608e-04	5.885e-05	-2.810e-04	-3.399e-04	pcfr_cs
296	-10.500	-0.500	-0.000	-1.941e-04	-1.574e-04	3.667e-05	-9.042e-04	-3.229e-04	5.813e-04	2.746e-05	-3.842e-04	-4.116e-04	pcfr_cs
297	-9.500	-0.500	-0.000	-1.318e-04	-1.074e-04	2.434e-05	-8.945e-04	-2.964e-04	5.982e-04	-1.967e-05	-4.790e-04	-4.593e-04	pcfr_cs
298	-8.500	-0.500	-0.000	-5.377e-05	-4.314e-05	1.064e-05	-9.026e-04	-2.956e-04	6.069e-04	-6.993e-05	-5.434e-04	-4.735e-04	pcfr_cs
299	-7.500	-0.500	-0.000	1.846e-05	1.774e-05	-7.163e-07	-9.215e-04	-3.148e-04	6.067e-04	-1.135e-04	-5.743e-04	-4.608e-04	pcfr_cs
300	-6.500	-0.500	-0.000	7.144e-05	6.384e-05	-7.601e-06	-9.415e-04	-3.436e-04	5.979e-04	-1.436e-04	-5.714e-04	-4.277e-04	pcfr_cs
301	-5.500	-0.500	-0.000	8.437e-05	8.437e-05	-7.621e-06	-9.500e-04	-3.687e-04	5.813e-04	-1.539e-04	-5.385e-04	-3.864e-04	pcfr_cs
302	-4.500	-0.500	-0.000	7.788e-05	7.685e-05	-1.028e-06	-9.319e-04	-3.744e-04	5.574e-04	-1.392e-04	-4.861e-04	-3.469e-04	pcfr_cs
303	-3.500	-0.500	-0.000	4.908e-05	5.634e-05	7.259e-06	-8.824e-04	-3.576e-04	5.247e-04	-1.119e-04	-4.302e-04	-3.183e-04	pcfr_cs
304	-2.500	-0.500	-0.000	2.372e-05	8.360e-04	8.123e-04	-7.992e-04	-2.952e-04	5.030e-04	-8.269e-05	-2.913e-04	-2.086e-04	pcfr_cs
305	-1.500	-0.500	-0.000	6.864e-06	2.580e-05	1.893e-05	-6.639e-04	-2.518e-04	4.124e-04	-5.254e-05	-3.101e-04	-2.576e-04	pcfr_cs
306	-0.500	-0.500	-0.000	8.892e-07	2.151e-05	2.045e-05	-4.416e-04	-1.365e-04	3.050e-04	-2.153e-05	-2.312e-04	-2.096e-04	pcfr_cs
307	-17.500	-0.167	-0.000	6.323e-05	5.000e-04	4.368e-04	-4.514e-04	-1.449e-04	3.065e-04	1.243e-04	-1.394e-04	-2.638e-04	pcfr_cs
308	-16.500	-0.167	-0.000	4.379e-05	2.917e-05	-1.462e-05	-6.632e-04	-3.129e-04	3.503e-04	1.329e-04	-5.011e-05	-1.830e-04	pcfr_cs
309	-15.500	-0.167	-0.000	9.724e-06	7.902e-04	7.805e-04	-7.882e-04	-3.620e-04	4.262e-04	1.343e-04	-2.128e-04	-3.472e-04	pcfr_cs
310	-14.500	-0.167	-0.000	-3.046e-05	-2.923e-05	1.231e-06	-8.663e-04	-4.043e-04	4.623e-04	1.335e-04	-1.042e-04	-2.377e-04	pcfr_cs
311	-13.500	-0.167	-0.000	-7.702e-05	-6.549e-05	-1.153e-05	-9.135e-04	-3.467e-04	4.968e-04	1.308e-04	-1.322e-04	-2.631e-04	pcfr_cs
312	-12.500	-0.167	-0.000	-1.344e-04	-1.107e-04	2.369e-05	-9.354e-04	-4.099e-04	5.254e-04	1.235e-04	-1.718e-04	-2.952e-04	pcfr_cs
313	-11.500	-0.167	-0.000	-1.990e-04	-1.608e-04	3.826e-05	-9.344e-04	-3.786e-04	5.558e-04	8.691e-05	-2.512e-04	-3.381e-04	pcfr_cs
314	-10.500	-0.167	-0.000	-2.023e-04	-1.626e-04	3.968e-05	-9.119e-04	-3.256e-04	5.863e-04	3.021e-05	-3.655e-04	-3.957e-04	pcfr_cs
315	-9.500	-0.167	-0.000	-1.314e-04	-1.074e-04	2.665e-05	-8.981e-04	-2.818e-04	6.129e-04	-1.021e-05	-4.596e-04	-4.362e-04	pcfr_cs
316	-8.500	-0.167	-0.000	-5.087e-05	-3.908e-05	1.179e-05	-9.057e-04	-2.738e-04	6.319e-04	-7.344e-05	-5.218e-04	-4.484e-04	pcfr_cs
317	-7.500	-0.167	-0.000	2.437e-05	2.406e-05	-3.078e-07	-9.260e-04	-2.848e-04	6.412e-04	-1.190e-04	-5.500e-04	-4.310e-04	pcfr_cs
318	-6.500	-0.167	-0.000	7.707e-05	6.981e-05	-7.263e-06	-9.488e-04	-3.095e-04	6.393e-04	-1.502e-04	-5.450e-04	-3.948e-04	pcfr_cs
319	-5.500	-0.167	-0.000	9.346e-05	8.151e-05	-6.217e-06	-9.610e-04	-3.354e-04	6.256e-04	-1.603e-04	-5.113e-04	-3.374e-04	pcfr_cs
320	-4.500	-0.167	-0.000	7.232e-05	7.560e-05	-2.742e-06	-9.413e-04	-3.468e-04	5.974e-04	-1.374e-04	-4.566e-04	-3.192e-04	pcfr_cs
321	-3.500	-0.167	-0.000	3.537e-05	4.969e-05	1.432e-05	-8.948e-04	-3.372e-04	5.577e-04	-1.032e-04	-4.008e-04	-2.977e-04	pcfr_cs
322	-2.500	-0.167	-0.000	7.409e-07	2.593e-05	2.519e-05	-8.108e-04	-3.056e-04	5.052e-04	-7.096e-05	-3.484e-04	-2.775e-04	pcfr_cs
323	-1.500	-0.167	-0.000	-2.752e-05	7.302e-06	3.482e-05	-6.767e-04	-2.661e-04	4.306e-04	-3.591e-05	-2.893e-04	-2.534e-04	pcfr_cs
324	-0.500	-0.167	-0.000	-4.480e-05	-4.470e-06	4.033e-05	-4.534e-04	-1.404e-04	3.130e-04	6.571e-06	-2.127e-04	-2.193e-04	pcfr_cs

OBJECT: brfr

ELT CENTER COORD SYS: brfr_cs

DISPLACEMENTS:

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ELT	X1C	X2C	X3C	B1	U1(+)	U1(-)	B2	U2(+)	U2(-)	B3	U3(+)	U3(-)	Coord Sys
1	-5.750	-5.750	0.000	6.373e-06	2.645e-05	2.008e-05	-1.665e-04	-1.337e-04	3.288e-05	6.774e-06	9.354e-05	8.677e-05	brfr_cs
2	-5.250	-5.750	-0.000	1.963e-05	3.094e-05	1.731e-05	-2.190e-04	-1.512e-04	6.789e-05	8.322e-06	1.100e-04	1.017e-04	brfr_cs
3	-4.750	-5.750	-0.000	1.936e-05	3.462e-05	1.465e-05	-2.483e-04	-1.569e-04	9.140e-05	8.475e-06	1.220e-04	1.135e-04	brfr_cs
4	-4.250	-5.750	-0.000	2.563e-05	3.782e-05	1.219e-05	-2.664e-04	-1.570e-04	1.094e-04	7.748e-06	1.303e-04	1.225e-04	brfr_cs
5	-3.750	-5.750	-0.000	3.114e-05	4.101e-05	9.866e-06	-2.769e-04	-1.532e-04	1.237e-04	6.347e-06	1.353e-04	1.290e-04	brfr_cs
6	-3.250	-5.750	0.000	3.678e-05	4.446e-05	7.679e-06	-2.813e-04	-1.461e-04	1.351e-04	5.432e-06	1.378e-04	1.312e-04	brfr_cs
7	-2.750	-5.750	0.000	4.256e-05	4.822e-05	5.662e-06	-2.799e-04	-1.359e-04	1.440e-04	2.582e-06	1.379e-04	1.353e-04	brfr_cs
8	-2.250	-5.750	0.000	4.821e-05	5.213e-05	3.918e-06	-2.728e-04	-1.222e-04	1.505e-04	5.077e-07	1.362e-04	1.357e-04	brfr_cs
9	-1.750	-5.750	0.000	5.325e-05	5.584e-05	2.589e-06	-2.594e-04	-1.049e-04	1.545e-04	-1.294e-06	1.330e-04	1.343e-04	brfr_cs
10	-1.250	-5.750	-0.000	5.677e-05	5.866e-05	1.996e-06	-2.386e-04	-8.139e-05	1.554e-04	-2.652e-06	1.286e-04	1.312e-04	brfr_cs
11	-0.750	-5.750	-0.000	6.379e-05	5.957e-05	2.777e-06	-2.074e-04	-5.571e-05	1.516e-04	-3.261e-06	1.230e-04	1.265e-04	brfr_cs
12	-0.250	-5.750	-0.000	6.818e-05	1.047e-03	9.991e-04	-1.553e-04	-7.344e-04	5.791e-04	-2.678e-06	-2.474e-04	-2.447e-04	brfr_cs
13	-5.750	-5.250	-0.000	9.076e-06	2.555e-04	2.465e-04	-2.320e-04	-1.640e-04	6.800e-05	7.885e-06	7.087e-05	6.300e-05	brfr_cs
14	-5.250	-5.250	-0.000	1.642e-05	3.442e-04	3.278e-04	-3.183e-04	-1.894e-04	1.269e-04	9.759e-06	8.218e-05	7.242e-05	brfr_cs
15	-4.750	-5.250	-0.000	2.378e-05	3.958e-04	3.721e-04	-3.640e-04	-1.961e-04	1.679e-04	9.724e-06	9.175e-05	8.203e-05	brfr_cs
16	-4.250	-5.250	-0.000	3.110e-05	4.292e-04	3.981e-04	-3.934e-04	-1.935e-04	1.999e-04	8.544e-06	9.913e-05	9.058e-05	brfr_cs
17	-3.750	-5.250	-0.000	3.860e-05	4.503e-04	4.117e-04	-4.104e-04	-1.843e-04	2.261e-04	6.374e-06	1.045e-04	9.809e-05	brfr_cs
18	-3.250	-5.250	-0.000	4.636e-05	4.617e-04	4.154e-04	-4.173e-04	-1.693e-04	2.481e-04	3.736e-06	1.078e-04	1.041e-04	brfr_cs
19	-2.750	-5.250	-0.000	5.423e-05	4.921e-04	5.018e-06	-4.149e-04	-2.031e-04	2.117e-04	6.032e-07	1.102e-04	1.096e-04	brfr_cs
20	-2.250	-5.250	-0.000	6.169e-05	4.570e-04	3.953e-06	-4.030e-04	-1.235e-04	2.795e-04	-2.448e-06	1.099e-04	1.123e-04	brfr_cs
21	-1.750	-5.250	-0.000	6.789e-05	4.392e-04	3.713e-04	-3.808e-04	-9.341e-05	2.874e-04	-5.292e-06	1.089e-04	1.142e-04	brfr_cs
22	-1.250	-5.250	-0.000	7.130e-05	4.973e-04	3.365e-04	-3.485e-04	-5.921e-05	2.873e-04	-7.130e-06	1.064e-04	1.113e-04	brfr_cs
23	-0.750	-5.250	-0.000	6.920e-05	3.506e-04	2.871e-04	-2.951e-04	-2.121e-05	2.739e-04	-7.718e-06	1.026e-04	1.104e-04	brfr_cs
24	-0.250	-5.250	-0.000	5.497e-05	2.656e-04	2.106e-04	-2.117e-04	-1.446e-04	2.326e-04	-8.025e-06	9.728e-05	1.035e-05	brfr_cs
25	-5.750	-4.750	0.000	9.126e-06	2.938e-04	2.846e-04	-2.766e-04	-1.935e-04	8.312e-05	7.083e-06	4.982e-05	4.274e-05	brfr_cs
26	-5.250	-4.750	0.000	1.564e-05	4.053e-04	3.897e-04	-3.846e-04	-2.310e-04	1.536e-04	6.845e-06	5.751e-05	4.887e-05	brfr_cs
27	-4.750	-4.750	0.000	2.261e-05	4.718e-04	4.492e-04	-4.474e-04	-2.450e-04	2.024e-04	8.220e-06	6.417e-05	5.595e-05	brfr_cs
28	-4.250	-4.750	0.000	3.024e-05	5.150e-04	4.848e-04	-4.866e-04	-2.461e-04	2.405e-04	6.540e-06	6.928e-05	6.274e-05	brfr_cs
29	-3.750	-4.750	0.000	3.766e-05	5.943e-04	5.714e-04	-5.732e-04	-2.911e-04	2.920e-04	7.924e-06	8.032e-05	7.181e-05	brfr_cs
30	-3.250	-4.750	0.000	4.743e-05	5.566e-04	5.092e-04	-5.186e-04	-2.921e-04	2.970e-04	3.901e-07	7.520e-05	7.481e-05	brfr_cs
31	-2.750	-4.750	0.000	5.643e-05	5.896e-04	5.022e-04	-5.152e-04	-1.980e-04	3.172e-04	-3.305e-06	7.632e-05	7.963e-05	brfr_cs
32	-2.250	-4.750	0.000	6.484e-05	4.783e-04	4.890e-04	-4.991e-04	-1.678e-04	3.314e-04	-7.013e-06	7.653e-05	8.354e-05	brfr_cs
33	-1.750	-4.750	0.000	7.153e-05	5.272e-04	4.512e-04	-4.694e-04	-1.314e-04	3.380e-04	-1.701e-05	7.590e-05	8.609e-05	brfr_cs
34	-1.250	-4.750	0.000	8.539e-05	5.887e-04	5.018e-04	-5.149e-04	-1.222e-04	3.422e-04	-2.220e-06	7.632e-05	8.035e-05	brfr_cs
35	-0.750	-4.750	0.000	7.141e-05	4.114e-04	3.399e-04	-3.558e-04	-4.216e-05	3.136e-04	-1.220e-05	7.201e-05	8.420e-05	brfr_cs
36	-0.250	-4.750	0.000	5.551e-05	2.968e-04	2.413e-04	-2.487e-04	1.264e-05	2.613e-04	-9.361e-06	6.850e-05	7.786e-05	brfr_cs
37	-5.750	-4.250	0.000	6.984e-06	3.193e-04	3.123e-04	-3.119e-04	-2.215e-04	9.031e-05	5.811e-06	2.213e-05	1.695e-05	brfr_cs
38	-5.250	-4.250	0.000	1.956e-05	3.442e-04	3.278e-04	-3.183e-04	-1.894e-04	1.269e-04	9.759e-06	8.218e-05	7.242e-05	brfr_cs
39	-4.750	-4.250	0.000	1.798e-05	3.958e-04	3.721e-04	-3.640e-04	-1.961e-04	1.679e-04	9.724e-06	9.175e-05	8.203e-05	brfr_cs
40	-4.250	-4.250	0.000	2.537e-05	5.800e-04	5.564e-04	-5.631e-04	-2.958e-04	2.673e-04	2.491e-06	3.199e-05	2.950e-05	brfr_cs
41	-3.750	-4.250	0.000	3.403e-05	2.163e-05	-1.239e-05	-5.915e-04	-3.231e-04	2.684e-04	-7.909e-07	3.279e-05	3.350e-05	brfr_cs
42	-3.250	-4.250	0.000	4.360e-05	2.708e-05	-1.652e-05	-6.031e-04	-3.157e-04	2.874e-04	-4.598e-06	2.977e-05	3.434e-05	brfr_cs
43	-2.750	-4.250	0.000	5.377e-05	3.177e-05	-2.047e-05	-6.714e-04	-2.714e-04	3.054e-04	-5.679e-06	3.167e-05	3.627e-05	brfr_cs
44	-2.250	-4.250	0.000	6.268e-05	3.878e-05	-2.390e-05	-5.795e-04	-2.714e-04	3.054e-04	-1.268e-05	2.212e-05	3.484e-05	brfr_cs
45	-1.750	-4.250	0.000	6.992e-05	4.375e-05	-2.617e-05	-5.431e-04	-2.392e-04	3.039e-04	-1.580e-05	1.890e-05	3.470e-05	brfr_cs
46	-1.250	-4.250	0.000	7.311e-05	4.678e-05	-2.653e-05	-4.874e-04	-1.934e-04	2.939e-04	-1.737e-05	1.691e-05	3.428e-05	brfr_cs
47	-0.750	-4.250	0.000	6.997e-05	4.620e-05	-2.377e-05	-4.059e-04	-1.339e-04	2.720e-04	-1.656e-05	1.686e-05	3.443e-05	brfr_cs
48	-0.250	-4.250	0.000	7.311e-05	4.678e-05	-2.653e-05	-4.874e-04	-1.934e-04	2.939e-04	-1.737e-05	1.691e-05	3.428e-05	brfr_cs
49	-5.750	-3.750	-0.000	2.800e-06	-5.319e-06	-8.119e-06	-3.402e-04	-2.522e-04	8.802e-05	2.318e-06	-1.007e-05	-1.239e-05	brfr_cs
50	-5.250	-3.750	-0.000	5.051e-06	4.790e-04	4.734e-04	-4.832e-04	-3.075e-04	1.255e-04	1.599e-06	-1.222e-05	-1.382e-05	brfr_cs
51	-4.750	-3.750	-0.000	1.521e-05	-1.957e-06	-1.221e-05	-5.713e-04	-3.457e-04	2.787e-04	-3.734e-07	-1.296e-05	-1.259e-05	brfr_cs
52	-4.250	-3.750	-0.000	1.718e-05	1.677e-06	-1.550e-05	-6.282e-04	-3.621e-04	2.662e-04	-3.258e-06	-1.671e-05	-1.454e-05	brfr_cs
53	-3.750	-3.750	-0.000	2.625e-05	1.420e-05	-2.384e-05	-6.767e-04	-3.590e-04	3.177e-04	-1.093e-05	-2.645e-05	-1.552e-05	brfr_cs

trial 2 output: 15of 81

1.996	-15.010	-0.100	1.000	0.010	0.000	1.015e+01	-0.010	1.000	-0.000	5.834e+00	-0.000	0.000	1.000	-2.235e-05
2.996	-15.010	-0.100	1.000	0.016	0.000	1.015e+01	-0.016	1.000	-0.000	5.818e+00	-0.000	0.000	1.000	-9.975e-05
3.997	-15.010	-0.100	1.000	0.020	0.000	1.009e+01	-0.020	1.000	-0.000	5.810e+00	-0.000	0.000	1.000	-3.051e-05
4.997	-15.010	-0.100	1.000	0.024	0.000	1.007e+01	-0.024	1.000	-0.000	5.807e+00	-0.000	0.000	1.000	-3.114e-05
5.998	-15.010	-0.100	1.000	0.026	0.000	1.005e+01	-0.026	1.000	-0.000	5.810e+00	-0.000	0.000	1.000	-3.046e-05
6.998	-15.010	-0.100	1.000	0.028	0.000	1.003e+01	-0.028	1.000	-0.000	5.816e+00	-0.000	0.000	1.000	-2.893e-05
7.999	-15.010	-0.100	1.000	0.029	0.000	1.001e+01	-0.029	1.000	-0.000	5.827e+00	-0.000	0.000	1.000	-2.686e-05
8.999	-15.010	-0.100	1.000	0.030	0.000	9.996e+00	-0.030	1.000	-0.000	5.836e+00	-0.000	0.000	1.000	-2.450e-05
10.000	-15.010	-0.100	1.000	0.030	0.000	9.983e+00	-0.030	1.000	-0.000	5.848e+00	-0.000	0.000	1.000	-2.204e-05
-10.010	-14.010	-0.100	1.000	0.012	0.000	1.011e+01	-0.012	1.000	0.000	6.094e+00	-0.000	-0.000	1.000	5.076e-05
-9.009	-14.010	-0.100	1.000	0.016	0.000	1.011e+01	-0.016	1.000	0.001	6.140e+00	-0.000	-0.001	1.000	5.955e-05
-8.009	-14.010	-0.100	1.000	0.019	0.000	1.013e+01	-0.019	1.000	0.001	6.200e+00	-0.000	-0.001	1.000	6.725e-05
-7.008	-14.010	-0.100	1.000	0.019	0.000	1.013e+01	-0.019	1.000	0.001	6.271e+00	-0.000	-0.001	1.000	7.366e-05
-6.008	-14.010	-0.100	1.000	0.013	0.000	1.012e+01	-0.013	1.000	0.001	6.340e+00	-0.000	-0.001	1.000	7.965e-05
-5.008	-14.010	-0.100	1.000	-0.002	0.000	1.012e+01	0.002	1.000	0.001	6.382e+00	-0.000	-0.001	1.000	8.611e-05
-4.007	-14.010	-0.100	1.000	-0.022	0.000	1.015e+01	0.022	1.000	0.001	6.357e+00	-0.000	-0.001	1.000	9.073e-05
-3.006	-14.010	-0.100	0.999	-0.036	0.000	1.021e+01	0.036	0.999	0.001	6.249e+00	-0.000	-0.001	1.000	8.642e-05
-2.006	-14.010	-0.100	0.999	-0.034	-0.000	1.027e+01	0.034	0.999	0.001	6.092e+00	-0.000	-0.001	1.000	6.703e-05
-1.005	-14.010	-0.100	1.000	-0.020	-0.000	1.029e+01	0.020	1.000	0.000	5.947e+00	-0.000	-0.000	1.000	3.619e-05
-0.005	-14.010	-0.100	1.000	-0.003	-0.000	1.027e+01	0.003	1.000	-0.000	5.850e+00	-0.000	0.000	1.000	4.959e-06
0.995	-14.010	-0.100	1.000	0.011	0.000	1.022e+01	-0.011	1.000	-0.000	5.799e+00	-0.000	0.000	1.000	-1.854e-05
1.996	-14.010	-0.100	1.000	0.021	0.000	1.017e+01	-0.021	1.000	-0.001	5.776e+00	-0.000	0.001	1.000	-3.288e-05
2.996	-14.010	-0.100	1.000	0.027	0.000	1.012e+01	-0.027	1.000	-0.001	5.766e+00	-0.000	0.001	1.000	-4.020e-05
3.997	-14.010	-0.100	1.000	0.030	0.000	1.009e+01	-0.030	1.000	-0.001	5.763e+00	-0.000	0.001	1.000	-4.305e-05
4.997	-14.010	-0.100	0.999	0.033	0.000	1.006e+01	-0.033	0.999	-0.001	5.765e+00	-0.000	0.001	1.000	-4.318e-05
5.998	-14.010	-0.100	0.999	0.035	0.000	1.003e+01	-0.035	0.999	-0.001	5.771e+00	-0.000	0.001	1.000	-4.163e-05
6.998	-14.010	-0.100	0.999	0.036	0.000	1.001e+01	-0.036	0.999	-0.001	5.781e+00	-0.000	0.001	1.000	-3.900e-05
7.999	-14.010	-0.100	0.999	0.037	0.000	9.993e+00	-0.037	0.999	-0.001	5.794e+00	-0.000	0.001	1.000	-3.572e-05
8.999	-14.010	-0.100	0.999	0.037	0.000	9.975e+00	-0.037	0.999	-0.000	5.810e+00	-0.000	0.000	1.000	-3.213e-05
10.000	-14.010	-0.100	0.999	0.036	0.000	9.963e+00	-0.036	0.999	-0.000	5.827e+00	-0.000	0.000	1.000	-2.849e-05
-10.010	-13.009	-0.100	1.000	0.016	0.000	1.014e+01	-0.016	1.000	0.001	6.101e+00	-0.000	-0.001	1.000	6.618e-05
-9.009	-13.009	-0.100	1.000	0.023	0.000	1.016e+01	-0.023	1.000	0.001	6.158e+00	-0.000	-0.001	1.000	7.660e-05
-8.009	-13.009	-0.100	1.000	0.030	0.001	1.017e+01	-0.030	1.000	0.001	6.237e+00	-0.001	-0.001	1.000	8.391e-05
-7.008	-13.009	-0.100	0.999	0.031	0.001	1.017e+01	-0.031	0.999	-0.001	6.339e+00	-0.001	-0.001	1.000	8.875e-05
-6.008	-13.009	-0.100	1.000	0.028	0.001	1.015e+01	-0.028	1.000	0.001	6.458e+00	-0.001	-0.001	1.000	9.476e-05
-5.008	-13.009	-0.100	1.000	0.006	0.001	1.014e+01	-0.006	1.000	0.002	6.545e+00	-0.001	-0.002	1.000	1.110e-04
-4.007	-13.009	-0.100	1.000	-0.031	0.000	1.018e+01	0.031	1.000	0.002	6.545e+00	-0.000	-0.002	1.000	1.376e-04
-3.006	-13.009	-0.100	0.998	-0.056	0.000	1.020e+01	0.056	0.998	0.002	6.362e+00	-0.000	-0.002	1.000	1.543e-04
-2.006	-13.009	-0.100	0.999	-0.047	-0.000	1.041e+01	0.047	0.999	0.001	6.093e+00	-0.000	-0.001	1.000	1.307e-04
-1.005	-13.009	-0.100	1.000	-0.017	-0.000	1.042e+01	0.017	1.000	0.000	5.861e+00	-0.000	0.000	1.000	7.146e-05
-0.005	-13.009	-0.100	1.000	0.012	0.000	1.034e+01	-0.012	1.000	-0.000	5.749e+00	-0.000	0.000	1.000	1.160e-05
0.995	-13.009	-0.100	1.000	0.030	0.000	1.025e+01	-0.030	1.000	-0.001	5.713e+00	-0.000	0.001	1.000	-2.817e-05
1.996	-13.009	-0.100	0.999	0.038	0.000	1.016e+01	-0.038	0.999	-0.001	5.708e+00	-0.000	0.001	1.000	-4.878e-05
2.996	-13.009	-0.100	0.999	0.041	0.000	1.010e+01	-0.041	0.999	-0.001	5.709e+00	-0.000	0.001	1.000	-5.759e-05
3.997	-13.009	-0.100	0.999	0.043	0.000	1.006e+01	-0.043	0.999	-0.001	5.711e+00	-0.000	0.001	1.000	-6.021e-05
4.997	-13.009	-0.100	0.999	0.044	0.000	1.003e+01	-0.044	0.999	-0.001	5.716e+00	-0.000	0.001	1.000	-5.950e-05
5.998	-13.009	-0.100	0.999	0.045	0.000	1.001e+01	-0.045	0.999	-0.001	5.725e+00	-0.000	0.001	1.000	-5.673e-05
6.998	-13.009	-0.100	0.999	0.046	0.000	9.985e+00	-0.046	0.999	-0.001	5.740e+00	-0.000	0.001	1.000	-5.256e-05
7.999	-13.009	-0.100	0.999	0.046	0.000	9.966e+00	-0.046	0.999	-0.001	5.759e+00	-0.000	0.001	1.000	-4.755e-05
8.999	-13.009	-0.100	0.999	0.046	0.000	9.949e+00	-0.046	0.999	-0.001	5.781e+00	-0.000	0.001	1.000	-4.218e-05
10.000	-13.009	-0.100	0.999	0.044	0.000	9.935e+00	-0.044	0.999	-0.001	5.803e+00	-0.000	0.001	1.000	-3.686e-05
-10.010	-12.009	-0.100	1.000	0.020	0.001	1.018e+01	-0.020	1.000	0.001	6.104e+00	-0.000	-0.001	1.000	6.288e-05
-9.009	-12.009	-0.100	1.000	0.031	0.001	1.021e+01	-0.031	1.000	0.001	6.169e+00	-0.001	-0.001	1.000	9.191e-05
-8.009	-12.009	-0.100	0.999	0.043	0.001	1.024e+01	-0.043	0.999	0.001	6.264e+00	-0.001	-0.001	1.000	9.129e-05
-7.008	-12.009	-0.100	0.998	0.055	0.001	1.024e+01	-0.055	0.998	0.001	6.400e+00	-0.001	-0.001	1.000	8.049e-05
-6.008	-12.009	-0.100	0.998	0.058	0.001	1.021e+01	-0.058	0.998	0.001	6.586e+00	-0.001	-0.001	1.000	9.167e-05
-5.008	-12.009	-0.100	0.999	0.033	0.001	1.017e+01	-0.033	0.999	0.002	6.798e+00	-0.001	-0.002	1.000	9.205e-05

trial 2 output: 16of 81

trial 2 output: 16of 81

-4.007	-12.009	-0.100	0.999	-0.038	0.001	1.021e+01	0.038	0.999	0.002	6.881e+00	-0.001	-0.002	1.000	1.678e-04
-3.006	-12.009	-0.100	0.995	-0.095	0.001	1.046e+01	0.095	0.995	0.003	6.561e+00	-0.001	-0.003	1.000	2.706e-04
-2.006	-12.009	-0.100	0.998	-0.062	0.000	1.068e+01	0.062	0.998	0.002	6.013e+00	-0.000	-0.002	1.000	2.663e-04
-1.005	-12.009	-0.100	1.000	0.003	-0.000	1.062e+01	-0.003	1.000	0.001	5.681e+00	-0.000	-0.001	1.000	1.348e-04
-0.005	-12.009	-0.100	0.999	0.045	0.000	1.042e+01	-0.045	0.999	-0.001	5.598e+00	-0.000	0.001	1.000	1.470e-05
0.995	-12.009	-0.100	0.998	0.062	0.000	1.023e+01	-0.062	0.998	-0.001	5.615e+00	-0.000	0.001	1.000	-4.777e-05
1.996	-12.009	-0.100	0.998	0.064	0.000	1.012e+01	-0.064	0.998	-0.001	5.642e+00	-0.000	0.001	1.000	-7.267e-05
2.996	-12.009	-0.100	0.998	0.061	0.000	1.005e+01	-0.061	0.998	-0.001	5.654e+00	-0.000	0.001	1.000	-8.083e-05
3.997	-12.009	-0.100	0.998	0.058	0.000	1.002e+01	-0.058	0.998	-0.001	5.655e+00	-0.000	0.001	1.000	-8.250e-05
4.997	-12.009	-0.100	0.998	0.058	0.000	9.991e+00	-0.058	0.998	-0.001	5.658e+00	-0.000	0.001	1.000	-8.096e-05
5.998	-12.009	-0.100	0.998	0.058	0.000	9.969e+00	-0.058	0.998	-0.001	5.670e+00	-0.000	0.001	1.000	-7.690e-05
6.998	-12.009	-0.100	0.998	0.059	0.000	9.948e+00	-0.059	0.998	-0.001	5.691e+00	-0.000	0.001	1.000	-7.078e-05
7.999	-12.009	-0.100	0.998	0.058	0.000	9.928e+00	-0.058	0.998	-0.001	5.718e+00	-0.000	0.001	1.000	-6.334e-05
8.999	-12.009	-0.100	0.998	0.056	0.000	9.911e+00	-0.056	0.998	-0.001	5.748e+00	-0.000	0.001	1.000	-5.541e-05
10.000	-12.009	-0.100	0.999	0.054	0.000	9.897e+00	-0.054	0.999	-0.001	5.778e+00	-0.000	0.001	1.000	-4.766e-05
-10.010	-11.009	-0.100	1.000	0.024	0.001	1.020e+01	-0.024	1.000	0.001	6.100e+00	-0.000	-0.001	1.000	6.201e-05
-9.009	-11.009													

trial 2 output: 19of 81

-1.005 -4.006 -0.100 0.769 0.639 0.013 7.265e+00 -0.639 0.769 -0.013 4.665e+00 -0.018 0.002 1.000 -4.903e-03
-0.005 -4.006 -0.100 0.874 0.486 0.002 8.167e+00 -0.486 0.874 -0.008 4.588e+00 -0.006 0.005 1.000 -3.546e-03
0.995 -4.006 -0.100 0.926 0.378 -0.014 8.357e+00 -0.378 0.926 -0.012 3.959e+00 0.009 0.016 1.000 -7.211e-03
1.996 -4.006 -0.100 0.996 0.072 -0.059 6.610e+00 -0.071 0.997 0.011 3.284e+00 0.059 -0.007 0.998 -2.021e-02
2.996 -4.006 -0.100 0.325 0.345 0.027 6.004e+00 0.345 0.325 -0.019 5.146e+00 -0.026 0.019 0.999 -5.146e-03
3.997 -4.006 -0.100 0.660 0.751 0.009 7.251e+00 0.751 -0.660 0.007 3.739e+00 -0.019 0.005 1.000 -3.365e-03
4.997 -4.006 -0.100 0.796 0.605 0.006 7.686e+00 -0.605 0.796 -0.012 4.415e+00 -0.012 0.006 1.000 -1.681e-03
5.998 -4.006 -0.100 0.879 0.477 0.005 7.981e+00 -0.477 0.879 -0.009 4.903e+00 -0.008 0.005 1.000 -1.128e-03
6.998 -4.006 -0.100 0.929 0.370 0.004 8.249e+00 -0.370 0.929 0.005 5.223e+00 -0.006 0.004 1.000 -7.997e-04
7.999 -4.006 -0.100 0.958 0.286 0.003 8.495e+00 -0.286 0.958 -0.004 5.483e+00 -0.004 0.003 1.000 -5.706e-04
8.999 -4.006 -0.100 0.975 0.222 0.003 8.712e+00 -0.222 0.975 -0.003 5.618e+00 -0.003 0.002 1.000 -4.081e-04
10.000 -4.006 -0.100 0.985 0.174 0.002 8.898e+00 -0.174 0.985 -0.002 5.726e+00 -0.002 0.002 1.000 -2.935e-04
-10.010 -3.006 -0.100 1.000 -0.017 0.002 1.049e+01 0.017 1.000 0.000 5.980e+00 -0.002 -0.000 1.000 2.305e-04
-9.009 -3.006 -0.100 1.000 -0.014 0.003 1.078e+01 0.014 1.000 0.001 5.970e+00 -0.003 -0.001 1.000 1.413e-04
-8.009 -3.006 -0.100 1.000 -0.009 0.003 1.114e+01 0.009 1.000 0.001 5.949e+00 -0.003 -0.001 1.000 1.742e-04
-7.008 -3.006 -0.100 1.000 -0.002 0.002 1.151e+01 0.002 1.000 0.001 5.904e+00 -0.002 -0.001 1.000 -8.959e-04
-6.008 -3.006 -0.100 1.000 -0.007 -0.001 1.173e+01 -0.007 1.000 0.002 5.811e+00 0.001 -0.002 1.000 -2.301e-03
-5.008 -3.006 -0.100 1.000 0.018 -0.007 1.150e+01 -0.018 1.000 0.002 5.630e+00 0.007 -0.002 1.000 -5.452e-03
-4.007 -3.006 -0.100 0.999 0.031 -0.024 1.019e+01 -0.031 1.000 0.002 5.232e+00 0.024 -0.001 1.000 -1.920e-02
-3.006 -3.006 -0.100 0.986 0.166 0.019 6.002e+00 -0.166 0.986 -0.024 4.624e+00 -0.022 0.020 1.000 4.713e-02
-2.006 -3.006 -0.100 0.516 0.856 0.025 6.025e+00 0.856 -0.517 0.032 4.335e+00 -0.040 -0.005 0.999 -8.080e-03
-1.005 -3.006 -0.100 0.838 0.546 0.017 7.089e+00 -0.546 0.838 -0.007 5.214e+00 -0.018 -0.003 1.000 -5.161e-03
0.005 -3.006 -0.100 0.556 0.292 0.003 8.071e+00 -0.292 0.556 0.000 4.961e+00 -0.002 -0.001 1.000 -3.614e-03
0.995 -3.006 -0.100 0.978 0.208 -0.014 8.246e+00 -0.208 0.978 -0.003 4.048e+00 0.013 0.006 1.000 -7.548e-03
1.996 -3.006 -0.100 0.998 0.002 -0.057 6.585e+00 -0.002 1.000 0.012 3.102e+00 0.057 -0.012 0.998 -2.675e-02
2.996 -3.006 -0.100 0.218 0.976 0.016 5.586e+00 0.976 -0.219 0.026 3.133e+00 -0.029 -0.010 1.000 -1.662e-03
3.997 -3.006 -0.100 0.553 0.833 0.008 6.394e+00 0.833 -0.553 0.026 3.820e+00 -0.021 0.004 1.000 -2.982e-03
4.997 -3.006 -0.100 0.728 0.686 0.007 6.950e+00 0.686 0.728 -0.014 4.450e+00 -0.015 0.006 1.000 -9.900e-03
5.998 -3.006 -0.100 0.843 0.538 0.006 7.403e+00 -0.538 0.843 -0.010 4.932e+00 -0.010 0.005 1.000 -1.364e-03
6.998 -3.006 -0.100 0.912 0.410 0.005 7.800e+00 -0.410 0.912 -0.006 5.273e+00 -0.007 0.004 1.000 -9.688e-04
7.999 -3.006 -0.100 0.951 0.309 0.004 8.146e+00 -0.309 0.951 -0.004 5.503e+00 -0.005 0.003 1.000 -6.818e-04
8.999 -3.006 -0.100 0.972 0.234 0.003 8.432e+00 -0.234 0.972 -0.003 5.658e+00 -0.004 0.002 1.000 -4.799e-04
10.000 -3.006 -0.100 0.984 0.178 0.002 8.689e+00 -0.178 0.984 -0.002 5.763e+00 -0.003 0.002 1.000 -2.401e-04
-10.010 -2.006 -0.100 1.000 -0.025 0.002 1.045e+01 0.025 1.000 0.000 5.997e+00 -0.002 -0.000 1.000 2.533e-04
-9.009 -2.006 -0.100 1.000 -0.027 0.003 1.074e+01 0.027 1.000 0.000 5.992e+00 -0.003 -0.000 1.000 1.779e-04
-8.009 -2.006 -0.100 1.000 -0.027 0.003 1.110e+01 0.027 1.000 0.001 5.977e+00 -0.003 -0.001 1.000 -1.172e-04
-7.008 -2.006 -0.100 1.000 -0.025 0.002 1.148e+01 0.025 1.000 0.001 5.939e+00 -0.002 -0.001 1.000 -8.098e-04
-6.008 -2.006 -0.100 1.000 -0.020 -0.000 1.173e+01 0.020 1.000 0.002 5.849e+00 0.000 -0.002 1.000 -2.178e-03
-5.008 -2.006 -0.100 1.000 -0.011 -0.006 1.156e+01 0.011 1.000 0.002 5.665e+00 0.006 -0.002 1.000 -5.361e-03
-4.007 -2.006 -0.100 1.000 0.004 -0.024 1.029e+01 -0.004 1.000 0.002 5.407e+00 0.024 -0.002 1.000 -1.951e-02
-3.006 -2.006 -0.100 0.973 0.229 0.011 1.037e+01 0.229 0.973 -0.011 4.876e+00 -0.017 0.020 0.999 4.083e-02
-2.006 -2.006 -0.100 0.435 0.900 0.025 6.263e+00 0.900 -0.436 0.038 3.584e+00 -0.045 -0.005 0.999 -1.046e-02
-1.005 -2.006 -0.100 0.845 0.534 0.024 7.058e+00 -0.534 0.846 -0.002 6.293e+00 -0.022 -0.011 1.000 -6.563e-03
-0.005 -2.006 -0.100 1.000 0.001 0.002 8.545e+00 -0.001 1.000 0.013 5.461e+00 -0.002 -0.013 1.000 -2.943e-03
0.995 -2.006 -0.100 0.995 0.007 -0.014 8.698e+00 -0.007 0.995 0.002 3.999e+00 0.014 -0.000 1.000 -7.393e-03
1.996 -2.006 -0.100 0.998 0.010 -0.057 6.656e+00 -0.010 0.998 0.010 3.952e+00 -0.057 -0.001 0.998 -2.916e-02
2.996 -2.006 -0.100 0.183 0.983 0.011 5.303e+00 0.983 -0.183 0.030 3.069e+00 -0.031 -0.006 0.999 -1.179e-03
3.997 -2.006 -0.100 0.484 0.875 0.007 5.839e+00 0.875 -0.484 0.022 3.780e+00 -0.023 0.004 1.000 -2.787e-03
4.997 -2.006 -0.100 0.669 0.743 0.007 6.401e+00 0.743 -0.669 0.016 4.400e+00 -0.017 0.006 1.000 -2.121e-03
5.998 -2.006 -0.100 0.808 0.589 0.007 6.915e+00 0.589 -0.808 -0.011 4.928e+00 -0.012 0.005 1.000 -1.596e-03
6.998 -2.006 -0.100 0.897 0.441 0.006 7.385e+00 -0.441 0.897 -0.007 5.304e+00 -0.008 0.004 1.000 -1.136e-03
7.999 -2.006 -0.100 0.947 0.322 0.005 7.812e+00 -0.322 0.947 -0.004 5.549e+00 -0.006 0.003 1.000 -7.966e-04
8.999 -2.006 -0.100 0.972 0.236 0.004 8.180e+00 -0.236 0.972 -0.003 5.705e+00 -0.004 0.002 1.000 -5.495e-04
10.000 -2.006 -0.100 0.985 0.175 0.003 8.486e+00 -0.175 0.985 -0.002 5.895e+00 -0.003 0.001 1.000 -3.847e-04
-10.010 -1.005 -0.100 1.000 -0.030 0.002 1.059e+01 0.030 1.000 0.000 6.024e+00 -0.002 -0.000 1.000 2.745e-04
-9.009 -1.005 -0.100 0.999 -0.036 0.003 1.066e+01 0.036 0.999 0.000 6.028e+00 -0.003 -0.000 1.000 2.158e-04
-8.009 -1.005 -0.100 0.999 -0.040 0.003 1.101e+01 0.040 0.999 0.001 6.025e+00 -0.003 -0.001 1.000 -5.347e-05

trial 2 output: 20of 81

-7.008 -1.005 -0.100 0.999 -0.043 0.003 1.139e+01 0.043 0.999 0.001 6.003e+00 -0.003 -0.001 1.000 -7.122e-04
-6.008 -1.005 -0.100 0.999 -0.043 0.001 1.166e+01 0.043 0.999 0.002 5.929e+00 -0.001 -0.002 1.000 -2.043e-03
-5.008 -1.005 -0.100 0.999 -0.038 -0.005 1.153e+01 0.038 0.999 0.003 5.750e+00 0.005 -0.003 1.000 -5.195e-03
-4.007 -1.005 -0.100 0.999 -0.025 -0.022 1.032e+01 0.025 1.000 0.003 5.374e+00 0.022 -0.004 1.000 -1.946e-02
-3.006 -1.005 -0.100 0.951 0.302 0.070 6.090e+00 -0.299 0.953 -0.044 4.926e+00 -0.080 0.021 0.997 1.410e-02
-2.006 -1.005 -0.100 0.487 0.873 0.021 6.707e+00 0.871 -0.487 0.054 4.508e+00 -0.057 0.008 0.998 -1.906e-02
-1.005 -1.005 -0.100 0.244 0.970 0.018 8.555e+00 0.969 -0.244 0.046 7.079e+00 -0.049 -0.006 0.998 -2.682e-02
-0.005 -1.005 -0.100 0.937 -0.348 -0.012 1.135e+01 0.348 0.935 0.070 5.816e+00 -0.013 -0.070 0.997 -7.431e-03
0.995 -1.005 -0.100 0.987 0.163 -0.014 9.607e+00 -0.163 0.987 0.007 3.043e+00 0.015 -0.005 1.000 -6.208e-03
1.996 -1.005 -0.100 0.990 0.135 0.052 1.064e+01 0.135 0.991 0.010 3.013e+00 0.052 -0.001 1.000 -1.761e-03
2.996 -1.005 -0.100 0.216 0.976 0.010 5.052e+00 0.976 -0.216 0.027 2.534e+00 -0.029 -0.004 1.000 -1.086e-03
3.997 -1.005 -0.100 0.440 0.898 0.007 5.476e+00 0.898 -0.440 0.025 3.531e+00 -0.026 0.005 1.000 -2.666e-03
4.997 -1.005 -0.100 0.603 0.798 0.007 5.999e+00 0.798 -0.603 0.019 4.240e+00 -0.020 0.006 1.000 -2.435e-03
5.998 -1.005 -0.100 0.763 0.647 0.008 6.499e+00 -0.647 0.763 -0.012 4.887e+00 -0.014 0.005 1.000 -1.853e-03
6.998 -1.005 -0.100 0.863 0.469 0.007 7.009e+00 -0.469 0.863 -0.007 5.334e+00 -0.010 0.003 1.000 -1.302e-03
7.999 -1.005 -0.100 0.946 0.324 0.006 7.501e+00 -0.324 0.946 -0.004 5.601e+00 -0.007 0.002 1.000 -9.638e-04
8.999 -1.005 -0.100 0.974 0.225 0.004 7.936e+00 -0.225 0.974 -0.003 5.756e+00 -0.005 0.002 1.000 -6.136e-04
10.000 -1.005 -0.100 0.987 0.161 0.003 8.299e+00 -0.161 0.987 -0.002 5.855e+00 -0.004 0.001 1.000 -4.252e-04
-10.010 -0.005 -0.100 1.000 -0.031 0.002 1.032e+01 0.031 1.000 -0.000 6.055e+00 -0.002 -0.000 1.000 2.915e-04
-9.009 -0.005 -0.100 0.999 -0.039 0.003 1.057e+01 0.039 0.999 0.000 6.071e+00 -0.003 -0.000 1.000 2.490e-04
-8.009 -0.005 -0.100 0.999 -0.046 0.003 1.090e+01 0.046 0.999 0.000 6.085e+00 -0.003 -0.000 1.000 5.481e-06
-7.008 -0.005 -0.100 0.999 -0.052 0.003 1.127e+01 0.052 0.999 0.001 6.086e+00 -0.003 -0.001 1.000 -6.283e-04
-6.008 -0.005 -0.100 0.998 -0.055 0.001 1.154e+01 0.055 0.998 0.002 6.041e+00 -0.002 -0.002 1.000 -1.958e-03
-5.008 -0.005 -0.100 0.999 -0.052 -0.004 1.143e+01 0.052 0.999 0.003 5.886e+00 0.004 -0.003 1.000 -5.159e-03
-4.007 -0.005 -0.100 0.999 -0.039 -0.020 1.029e+01 0.039 0.999 0.004 5.883e+00 0.020 -0.004 1.000 -1.955e-02
-3.006 -0.005 -0.100 0.963 0.250 0.104 6.244e+00 -0.247 0.968 -0.040 4.954e+00 -0.111 0.013 0.994 -1.948e-02
-2.006 -0.005 -0.100 0.811 0.585 0.015 6.237e+00 -0.583 0.810 -0.070 3.927e+00 -0.053 0.048 0.997 -2.557e-02
-1.005 -0.005 -0.100 0.839 0.542 -0.036 8.329e+00 -0.542 0.831 -0.127 5.274e+00 -0.039 0.126 0.991 -1.120e-01
0.005 -0.005 -0.100 0.851 0.525 0.000 8.314e+00 -0.525 0.851 -0.011 1.959e+00 -0.006 0.010 1.000 -1.217e-02
1.996 -0.005 -0.100 0.858 0.511 -0.043 5.958e+00 -0.511 0.859 0.025 3.656e+00 0.050 -0.000 0.999 -3.727e-02
2.996 -0.005 -0.100 0.244 0.970 0.009 4.727e+00 0.969 -0.244 0.022 2.533e+00 -0.023 -0.004 1.000 7.392e-04
3.997 -0.005 -0.100 0.375 0.927 0.006 5.212e+00 0.927 -0.375 0.032 3.066e+00 -0.032 0.006 0.999 -2.867e-03
4.997 -0.005 -0.100 0.501 0.865 0.007 5.689e+00 0.865 -0.501 0.023 3.993e+00 -0.023 0.006 1.000 -2.915e-03
5.998 -0.005 -0.100 0.687 0.727 0.008 6.311e+00 0.727 -0.687 0.014 4.835e+00 -0.016 0.004 1.000 -2.141e-03
6.998 -0.005 -0.100 0.867 0.499 0.008 6.660e+00 -0.498 0.867 -0.008 5.384e+00 -0.011 0.003 1.000 -1.463e-03
7.999 -0.005 -0.100 0.951 0.363 0.007 7.217e+00 -0.363 0.951 -0.004 5.667e+00 -0.007 0.002 1.000 -9.864e-04
8.999 -0.005 -0.100 0.980 0.258 0.005 7.700e+00 -0.258 0.980 -0.002 5.813e+00 -0.005 0.001 1.000 -6.688e-04
10.000 -0.005 -0.100 0.991 0.135 0.004 8.137e+00 -0.135 0.991 -0.001 5.894e+00 -0.004 0.001 1.000 -4.593e-04
-10.010 -0.005 -0.100 1.000 -0.027 0.002 1.025e+01 0.027 1.000 -0.000 6.081e+00 -0.002 0.000 1.000 3.013e-04
-9.009 -0.005 -0.100 0.999 -0.035 0.003 1.048e+01 0.035 0.999 -0.000 6.107e+00 -0.003 0.000 1.000 2.740e-04
-8.009 -0.005 -0.100 0.999 -0.043 0.004 1.079e+01 0.043 0.999 0.000 6.136e+00 -0.004 0.000 1.000 5.127e-05
-7.008 -0.005 -0.100 0.999 -0.050 0.004 1.114e+01 0.050 0.999 0.000 6.153e+00 -0.004 -0.000 1.000 -9.657e-04
-6.008 -0.005 -0.100 0.999 -0.051 0.002 1.142e+01 0.051 0.999 0.001 6.124e+00 -0.002 -0.001 1.000 -1.914e-03
-5.008 -0.005 -0.100 0.999 -0.044 -0.002 1.135e+01 0.044 0.999 0.001 5.970e+00 0.002 -0.001 1.000 -5.202e-03
-4.007 -0.005 -0.100 0.999 0.027 -0.019 1.030e+01 -0.027 1.000 0.001 5.452e+00 0.019 -0.002 1.000 -1.996e-02
-3.006 -0.005 -0.100 0.992 0.070 0.108 7.008e+00 -0.070 0.998 -0.001 4.780e+00 -0.108 0.001 0.994 -2.668e-03
-2.006 -0.005 -0.100 0.992 0.126 0.017 5.633e+00 -0.124 0.990 -0.064 4.846e+00 -0.025 0.061 0.998 -1.555e-02
-1.005 -0.005 -0.100 0.999 0.030 -0.039 6.168e+00 -0.034 0.993 -0.109 2.193e+00 0.035 0.110 0.993 -3.886e-02
0.005 -0.005 -0.100 -0.626 0.733 0.265 3.272e+00 0.577 0.684 -0.475 1.218e+00 0.524 0.144 0.839 -4.160e-01
1.996 -0.005 -0.100 0.522 0.851 0.014 5.987e+00 0.852 0.522 0.014 4.987e+00 -0.040 0.000 0.999 -1.394e-02
2.996 -0.005 -0.100 0.277 0.961 -0.017 6.328e+00 0.959 -0.278 0.053 2.821e+00 0.056 0.001 0.998 -3.464e-02
3.997 -0.005 -0.100 0.173 0.985 0.007 4.274e+00 0.985 -0.174 0.022 1.824e+00 -0.023 -0.003 1.000 4.801e-03
4.997 -0.005 -0.100 0.564 0.965 0.004 4.979e+00 0.964 -0.564 0.043 2.514e+00 -0.042 0.007 0.999 -3.862e-03
5.997 -0.005 -0.100 0.355 0.935 -0.005 4.447e+00 0.935 -0.355 0.028 3.726e+00 -0.028 0.005 1.000 -3.543e-03
6.998 -0.005 -0.100 0.549 0.836 0.007 5.831e+00 0.836 -0.549 0.017 4.804e+00 -0.018 0.003 1.000 -2.478e-03
7.999 -0.005 -0.100 0.852 0.523 0.009 6.332e+00 -0.523 0.852 -0.008 5.477e+00 -0.012 0.002 1.000 -1.602e-03

trial 2 output: 21of 81

7.999 0.995 -0.100 0.966 0.259 0.007 6.971e+00 -0.259 0.966 -0.003 5.749e+00 -0.008 0.001 1.000 -1.060e-03
8.999 0.995 -0.100 0.989 0.148 0.005 7.547e+00 -0.148 0.989 -0.002 5.869e+00 -0.006 0.001 1.000 -7.108e-04
10.000 0.995 -0.100 0.996 0.095 0.004 8.013e+00 -0.095 0.996 -0.001 5.934e+00 -0.004 0.001 1.000 -4.846e-04
-10.010 1.996 -0.100 1.000 -0.019 0.002 1.020e+01 0.019 1.000 -0.000 6.095e+00 -0.002 0.000 1.000 3.016e-0

trial 2 output: 23of 81

-4.007	6.997	-0.100	0.977	-0.212	-0.000	1.131e+01	0.212	0.977	0.025	6.918e+00	-0.005	-0.024	1.000	-9.124e-03
-3.006	6.997	-0.100	0.995	0.022	0.094	1.503e+01	-0.030	0.995	0.091	1.074e+01	-0.092	-0.094	0.991	-3.307e-01
-2.006	6.997	-0.100	0.923	-0.385	0.006	1.418e+01	0.385	0.923	0.002	3.531e+00	-0.006	0.001	1.000	-3.497e-03
-1.005	6.997	-0.100	0.918	-0.397	0.005	1.189e+01	0.397	0.918	0.014	5.546e+00	-0.010	0.011	1.000	-6.497e-03
-0.005	6.997	-0.100	0.971	-0.229	0.007	1.097e+01	0.229	0.973	0.001	7.103e+00	-0.007	0.002	1.000	-7.841e-03
0.995	6.997	-0.100	0.995	0.096	-0.016	1.088e+01	-0.097	0.995	-0.024	5.830e+00	0.014	0.025	1.000	-1.142e-02
1.995	6.997	-0.100	0.997	0.037	-0.075	7.835e+00	-0.039	0.999	-0.017	2.273e+00	0.074	0.020	0.997	-1.062e-02
2.996	6.997	-0.100	-0.243	0.970	-0.015	5.052e+00	0.969	0.243	0.002	4.496e+00	-0.044	0.005	0.999	5.006e-03
3.997	6.997	-0.100	0.653	0.758	-0.012	5.653e+00	0.757	0.653	0.019	4.033e+00	-0.022	-0.003	1.000	-4.128e-03
4.997	6.997	-0.100	0.753	0.658	0.009	6.276e+00	0.658	0.753	0.014	4.462e+00	-0.016	-0.005	1.000	-2.218e-03
5.998	6.997	-0.100	0.840	-0.542	0.008	6.798e+00	0.542	0.840	0.010	4.941e+00	-0.012	-0.004	1.000	-1.625e-03
6.998	6.997	-0.100	0.910	-0.416	0.007	7.283e+00	0.416	0.910	0.006	5.316e+00	-0.009	-0.003	1.000	-1.172e-03
7.999	6.997	-0.100	0.952	-0.307	0.005	7.798e+00	0.307	0.952	0.004	5.566e+00	-0.006	-0.002	1.000	-8.253e-04
8.999	6.997	-0.100	0.974	-0.227	0.004	8.119e+00	0.227	0.974	0.003	5.724e+00	-0.005	-0.002	1.000	-5.764e-04
10.000	6.997	-0.100	0.985	-0.170	0.003	8.446e+00	0.170	0.985	0.002	5.823e+00	-0.003	-0.001	1.000	-4.040e-04
-10.010	7.998	-0.100	1.000	0.000	0.001	1.016e+01	-0.000	1.000	-0.001	6.036e+00	-0.001	0.001	1.000	1.711e-04
-9.009	7.998	-0.100	1.000	-0.013	0.001	1.028e+01	0.013	1.000	-0.001	6.071e+00	-0.001	0.001	1.000	2.018e-04
-8.009	7.998	-0.100	0.999	-0.034	0.002	1.044e+01	0.034	0.999	-0.001	6.131e+00	-0.002	0.001	1.000	2.053e-04
-7.008	7.998	-0.100	0.998	-0.065	0.002	1.063e+01	0.065	0.998	-0.001	6.235e+00	-0.002	0.002	1.000	1.556e-04
-6.008	7.998	-0.100	0.995	-0.104	0.003	1.082e+01	0.104	0.995	-0.001	6.423e+00	-0.003	0.001	1.000	2.398e-05
-5.008	7.998	-0.100	0.990	-0.144	0.004	1.100e+01	0.144	0.990	0.001	6.789e+00	-0.004	-0.000	1.000	-2.978e-04
-4.007	7.998	-0.100	0.990	-0.140	0.007	1.121e+01	0.140	0.990	0.007	7.539e+00	-0.008	-0.001	1.000	-1.310e-03
-3.006	7.998	-0.100	0.977	0.077	0.009	1.204e+01	-0.076	0.977	-0.011	7.907e+00	-0.010	0.010	1.000	-2.023e-03
-2.006	7.998	-0.100	0.999	-0.050	0.002	1.297e+01	0.050	0.999	-0.009	6.036e+00	-0.002	0.009	1.000	-6.899e-04
-1.005	7.998	-0.100	0.987	-0.158	0.001	1.218e+01	0.158	0.987	-0.002	5.855e+00	-0.001	0.002	1.000	-2.402e-03
-0.005	7.998	-0.100	0.995	-0.099	-0.003	1.136e+01	0.099	0.995	-0.005	5.891e+00	0.004	0.005	1.000	-4.377e-03
0.995	7.998	-0.100	1.000	0.004	-0.018	1.032e+01	-0.004	1.000	-0.001	6.770e+00	0.019	0.007	1.000	-1.221e-02
1.996	7.998	-0.100	0.996	0.044	-0.074	7.552e+00	-0.044	0.999	-0.002	2.436e+00	0.074	0.005	0.997	-1.272e-02
2.996	7.998	-0.100	-0.152	0.988	-0.012	5.176e+00	0.987	0.153	0.042	3.686e+00	-0.043	0.005	0.999	6.253e-03
3.997	7.998	-0.100	-0.671	0.741	-0.013	5.839e+00	0.741	0.671	0.017	4.418e+00	-0.021	-0.002	1.000	-4.654e-03
4.997	7.998	-0.100	0.803	-0.595	0.009	6.576e+00	0.595	0.803	0.002	4.727e+00	-0.014	0.004	1.000	-2.101e-03
5.998	7.998	-0.100	0.876	-0.483	0.003	7.157e+00	0.483	0.876	0.009	5.053e+00	-0.010	-0.004	1.000	-1.438e-03
6.998	7.998	-0.100	0.924	-0.381	0.006	7.635e+00	0.381	0.924	0.006	5.334e+00	-0.008	-0.003	1.000	-1.030e-03
7.999	7.998	-0.100	0.955	-0.295	0.004	8.036e+00	0.295	0.956	0.004	5.542e+00	-0.005	-0.003	1.000	-7.303e-04
8.999	7.998	-0.100	0.974	-0.227	0.003	8.370e+00	0.227	0.974	0.003	5.687e+00	-0.004	-0.002	1.000	-5.147e-04
10.000	7.998	-0.100	0.984	-0.176	0.002	8.646e+00	0.176	0.984	0.002	5.786e+00	-0.003	-0.001	1.000	-3.438e-04
-10.010	8.998	-0.100	1.000	0.001	0.001	1.015e+01	0.001	1.000	-0.001	6.036e+00	-0.001	0.001	1.000	1.455e-04
-9.009	8.998	-0.100	1.000	-0.013	0.001	1.024e+01	0.013	1.000	-0.001	6.078e+00	-0.001	0.001	1.000	1.795e-04
-8.009	8.998	-0.100	1.000	-0.031	0.001	1.036e+01	0.031	1.000	-0.001	6.150e+00	-0.001	0.001	1.000	2.051e-04
-7.008	8.998	-0.100	0.998	-0.055	0.002	1.049e+01	0.055	0.998	-0.002	6.271e+00	-0.002	0.002	1.000	2.125e-04
-6.008	8.998	-0.100	0.997	-0.080	0.002	1.063e+01	0.080	0.997	-0.002	6.470e+00	-0.002	0.002	1.000	1.935e-04
-5.008	8.998	-0.100	0.996	-0.095	0.003	1.077e+01	0.095	0.996	-0.002	6.775e+00	-0.003	0.002	1.000	1.327e-04
-4.007	8.998	-0.100	0.998	-0.065	0.004	1.096e+01	0.065	0.998	-0.003	7.113e+00	-0.004	0.003	1.000	1.078e-05
-3.006	8.998	-0.100	1.000	-0.001	0.004	1.142e+01	0.001	1.000	-0.006	7.027e+00	-0.004	0.006	1.000	-1.311e-04
-2.006	8.998	-0.100	1.000	-0.025	0.002	1.190e+01	0.025	1.000	-0.005	6.385e+00	-0.002	0.005	1.000	-8.904e-04
-1.005	8.998	-0.100	0.997	-0.074	-0.001	1.186e+01	0.074	0.997	-0.004	5.890e+00	0.001	0.004	1.000	-1.813e-03
-0.005	8.998	-0.100	0.997	-0.072	-0.006	1.138e+01	0.072	0.997	-0.003	5.380e+00	0.006	0.003	1.000	-4.124e-03
0.995	8.998	-0.100	0.999	-0.039	-0.019	1.026e+01	0.039	0.999	-0.001	4.379e+00	0.019	0.001	1.000	-1.248e-02
1.996	8.998	-0.100	0.997	0.016	-0.072	7.446e+00	-0.017	1.000	-0.005	2.660e+00	0.072	0.007	0.997	-1.194e-02
2.996	8.998	-0.100	-0.153	0.988	-0.013	5.322e+00	0.987	0.153	0.040	3.725e+00	-0.041	0.007	0.999	6.720e-03
3.997	8.998	-0.100	-0.663	0.749	-0.012	6.160e+00	0.749	0.663	0.017	4.549e+00	-0.021	-0.002	1.000	-4.862e-03
4.997	8.998	-0.100	0.870	-0.572	0.008	6.349e+00	0.572	0.870	0.011	4.872e+00	-0.013	-0.004	1.000	-2.035e-03
5.998	8.998	-0.100	0.892	-0.451	0.006	7.546e+00	0.451	0.892	0.008	5.132e+00	-0.009	-0.004	1.000	-1.293e-03
6.998	8.998	-0.100	0.934	-0.356	0.005	7.998e+00	0.356	0.934	0.005	5.354e+00	-0.007	-0.003	1.000	-9.011e-04
7.999	8.998	-0.100	0.960	-0.280	0.004	8.349e+00	0.280	0.960	0.004	5.529e+00	-0.005	-0.003	1.000	-6.369e-04
8.999	8.998	-0.100	0.975	-0.221	0.003	8.629e+00	0.221	0.975	0.003	5.660e+00	-0.003	-0.002	1.000	-4.511e-04
10.000	8.998	-0.100	0.985	-0.174	0.002	8.854e+00	0.174	0.985	0.002	5.754e+00	-0.003	-0.001	1.000	-3.212e-04

trial 2 output: 24of 81

-10.010	9.998	-0.100	1.000	-0.001	0.001	1.013e+01	0.001	1.000	-0.001	6.037e+00	-0.001	0.001	1.000	1.209e-04
-9.009	9.998	-0.100	1.000	-0.012	0.001	1.020e+01	0.012	1.000	-0.001	6.081e+00	-0.001	0.001	1.000	1.536e-04
-8.009	9.998	-0.100	1.000	-0.026	0.001	1.029e+01	0.026	1.000	-0.001	6.152e+00	-0.001	0.001	1.000	1.869e-04
-7.008	9.998	-0.100	0.999	-0.042	0.001	1.038e+01	0.042	0.999	-0.001	6.263e+00	-0.001	0.002	1.000	2.173e-04
-6.008	9.998	-0.100	0.998	-0.057	0.002	1.048e+01	0.057	0.998	-0.002	6.426e+00	-0.002	0.002	1.000	2.401e-04
-5.008	9.998	-0.100	0.998	-0.061	0.002	1.060e+01	0.061	0.998	-0.002	6.609e+00	-0.002	0.002	1.000	2.435e-04
-4.007	9.998	-0.100	0.999	-0.047	0.003	1.079e+01	0.047	0.999	-0.003	6.740e+00	-0.003	0.003	1.000	1.932e-04
-3.006	9.998	-0.100	1.000	-0.031	0.002	1.108e+01	0.031	1.000	-0.004	6.658e+00	-0.002	0.004	1.000	2.718e-05
-2.006	9.998	-0.100	0.999	-0.045	0.001	1.131e+01	0.045	0.999	-0.004	6.337e+00	-0.001	0.004	1.000	-5.057e-04
-1.005	9.998	-0.100	0.997	-0.074	-0.001	1.148e+01	0.074	0.997	-0.002	5.898e+00	0.001	0.002	1.000	-1.551e-03
-0.005	9.998	-0.100	0.996	-0.090	-0.006	1.121e+01	0.090	0.996	-0.001	5.284e+00	0.006	0.000	1.000	-3.735e-03
0.995	9.998	-0.100	0.996	-0.084	-0.019	1.020e+01	0.084	0.996	-0.002	4.323e+00	0.019	-0.004	1.000	-1.200e-02
1.996	9.998	-0.100	0.997	-0.009	-0.071	7.404e+00	0.008	1.000	-0.009	2.834e+00	0.071	0.008	0.997	-1.841e-02
2.996	9.998	-0.100	-0.267	0.978	-0.019	5.513e+00	0.977	0.267	0.037	3.742e+00	-0.040	0.011	0.999	5.487e-03
3.997	9.998	-0.100	-0.684	0.730	-0.011	6.710e+00	0.730	0.684	0.016	4.502e+00	-0.020	-0.003	1.000	-5.044e-03
4.997	9.998	-0.100	0.833	-0.553	0.007	7.492e+00	0.552	0.833	0.010	4.888e+00	-0.012	-0.005	1.000	-1.948e-03
5.998														

trial 2 output: 27of 81

trial 2 output: 29of 81

trial 2 output: 30of 81

trial 2 output: 31of 81

-3.809 -4.009 -0.100 0.998 0.053 -0.030 9.577e+00 -0.053 0.999 0.002 5.125e+00 0.030 -0.001 1.000 -2.541e-02
-3.609 -4.009 -0.100 0.998 0.055 -0.040 8.938e+00 -0.055 0.998 0.002 5.006e+00 0.040 0.001 0.999 0.370e-02
-3.408 -4.009 -0.100 0.997 0.057 -0.052 8.136e+00 -0.062 0.998 0.000 4.883e+00 0.052 0.003 0.999 -2.851e-02
-3.208 -4.009 -0.100 0.995 0.086 -0.050 7.080e+00 -0.086 0.996 0.005 4.742e+00 0.049 0.009 0.999 6.730e-02
-3.008 -4.009 -0.100 0.992 0.129 -0.002 5.979e+00 -0.129 0.991 -0.023 4.399e+00 -0.001 0.023 1.000 4.780e-02
-2.808 -4.009 -0.100 0.953 -0.235 -0.189 5.348e+00 0.232 0.972 -0.040 3.975e+00 0.193 -0.006 0.981 -5.964e-01
-2.608 -4.009 -0.100 0.923 -0.399 -0.046 5.432e+00 0.977 0.034 0.008 3.612e+00 0.210 -0.040 0.977 9.423e-02
-2.407 -4.009 -0.100 0.289 0.957 0.017 5.768e+00 0.957 -0.289 -0.016 3.596e+00 0.010 -0.021 1.000 9.929e-02
-2.207 -4.009 -0.100 0.435 0.900 0.022 5.888e+00 0.900 -0.435 0.028 3.863e+00 -0.035 -0.007 0.999 1.254e-02
-2.007 -4.009 -0.100 0.529 0.848 0.022 6.088e+00 0.848 -0.530 0.031 4.080e+00 -0.038 -0.003 0.999 -7.298e-03
-1.807 -4.009 -0.100 0.599 0.801 0.021 6.327e+00 0.800 -0.599 0.027 4.252e+00 -0.034 -0.001 0.999 -9.450e-03
-1.607 -4.009 -0.100 0.653 0.757 0.019 6.573e+00 0.757 -0.653 0.022 4.393e+00 -0.029 0.000 1.000 -8.312e-03
-1.406 -4.009 -0.100 0.698 0.716 0.017 6.814e+00 0.716 -0.698 0.019 4.509e+00 -0.025 0.001 1.000 -6.899e-03
-1.206 -4.009 -0.100 0.736 0.677 0.015 7.044e+00 -0.677 0.736 -0.016 4.599e+00 -0.021 0.001 1.000 -5.752e-03
-1.006 -4.009 -0.100 0.769 0.639 0.013 7.265e+00 -0.639 0.769 -0.013 4.664e+00 -0.018 0.002 1.000 -4.904e-03
-0.806 -4.009 -0.100 0.797 0.604 0.011 7.474e+00 -0.604 0.797 -0.011 4.702e+00 -0.015 0.003 1.000 -4.301e-03
-0.606 -4.009 -0.100 0.821 0.571 0.009 7.672e+00 -0.571 0.821 -0.010 4.713e+00 -0.013 0.003 1.000 -3.890e-03
-0.405 -4.009 -0.100 0.841 0.540 0.007 7.856e+00 -0.540 0.841 -0.009 4.696e+00 -0.010 0.004 1.000 -3.637e-03
-0.205 -4.009 -0.100 0.859 0.512 0.004 8.022e+00 -0.512 0.859 -0.008 4.654e+00 -0.008 0.005 1.000 -3.522e-03
-0.005 -4.009 -0.100 0.873 0.487 0.002 8.168e+00 -0.487 0.873 -0.008 4.587e+00 -0.006 0.006 1.000 -3.546e-03
0.195 -4.009 -0.100 0.886 0.463 -0.001 8.287e+00 -0.463 0.886 -0.008 4.497e+00 -0.003 0.008 1.000 -3.723e-03
0.395 -4.009 -0.100 0.897 0.442 -0.003 8.373e+00 -0.442 0.897 -0.009 4.387e+00 -0.001 0.009 1.000 -4.090e-03
0.596 -4.009 -0.100 0.907 0.421 -0.007 8.420e+00 -0.421 0.907 -0.010 4.260e+00 0.002 0.011 1.000 -4.711e-03
0.796 -4.009 -0.100 0.917 0.400 -0.010 8.419e+00 -0.400 0.916 -0.011 4.119e+00 0.005 0.014 1.000 -5.694e-03
0.996 -4.009 -0.100 0.926 0.378 0.014 8.357e+00 -0.378 0.925 0.016 3.968e+00 0.009 0.016 1.000 -6.715e-03
1.196 -4.009 -0.100 0.935 0.355 -0.019 8.226e+00 -0.355 0.935 -0.013 3.815e+00 0.013 0.019 1.000 -9.559e-03
1.396 -4.009 -0.100 0.945 0.326 -0.026 7.999e+00 -0.326 0.945 -0.014 3.663e+00 0.020 0.022 1.000 -1.316e-02
1.597 -4.009 -0.100 0.958 0.285 -0.034 7.663e+00 -0.285 0.958 -0.013 3.522e+00 0.028 0.023 0.999 -1.852e-02
1.797 -4.009 -0.100 0.976 0.213 -0.045 7.196e+00 -0.213 0.977 -0.008 3.397e+00 0.042 0.017 0.999 -2.470e-02
1.997 -4.009 -0.100 0.999 0.071 -0.059 6.614e+00 -0.071 0.997 0.011 3.274e+00 -0.060 -0.007 0.998 -2.026e-02
2.197 -4.009 -0.100 0.983 -0.166 -0.075 5.979e+00 0.171 0.983 0.062 3.149e+00 0.064 -0.074 0.995 -2.750e-02
2.397 -4.009 -0.100 0.873 -0.465 -0.147 5.277e+00 0.469 0.883 -0.005 3.351e+00 0.132 -0.064 0.989 -3.180e-01
2.598 -4.009 -0.100 -0.342 0.937 0.071 5.126e+00 0.930 0.349 -0.116 3.147e+00 0.134 -0.026 0.991 1.143e-01
2.798 -4.009 -0.100 -0.072 0.997 0.035 5.537e+00 0.997 -0.072 0.002 3.110e+00 -0.004 -0.035 0.999 3.883e-02
2.998 -4.009 -0.100 0.327 0.945 0.027 6.013e+00 0.945 -0.327 0.020 3.141e+00 -0.028 0.019 0.999 -5.295e-03
3.198 -4.009 -0.100 0.453 0.891 0.021 6.417e+00 0.891 -0.454 0.021 3.200e+00 -0.028 -0.009 1.000 -8.942e-03
3.398 -4.009 -0.100 0.527 0.850 0.016 6.717e+00 0.849 -0.527 0.020 3.308e+00 -0.025 -0.003 1.000 -7.166e-03
3.599 -4.009 -0.100 0.580 0.814 0.013 6.943e+00 0.814 -0.580 0.019 3.443e+00 -0.023 0.001 1.000 -5.421e-03
3.799 -4.009 -0.100 0.625 0.782 0.010 7.117e+00 0.782 -0.623 0.018 3.590e+00 -0.020 0.003 1.000 -4.192e-03
3.999 -4.009 -0.100 0.660 0.751 0.009 7.256e+00 0.751 -0.660 0.017 3.740e+00 -0.019 0.005 1.000 -3.360e-03
4.199 -4.009 -0.100 0.694 0.720 0.008 7.369e+00 0.720 -0.694 0.016 3.888e+00 -0.017 0.005 1.000 -2.787e-03
4.399 -4.009 -0.100 0.723 0.691 0.007 7.464e+00 -0.690 0.723 -0.015 4.031e+00 -0.015 0.006 1.000 -2.381e-03
4.600 -4.009 -0.100 0.750 0.661 0.006 7.546e+00 -0.661 0.750 -0.014 4.167e+00 -0.014 0.006 1.000 -2.084e-03
4.800 -4.009 -0.100 0.774 0.633 0.004 7.620e+00 -0.633 0.774 -0.013 4.296e+00 -0.013 0.006 1.000 -1.857e-03
5.000 -4.009 -0.100 0.796 0.605 0.006 7.687e+00 -0.605 0.796 -0.012 4.416e+00 -0.012 0.006 1.000 -1.679e-03
-5.010 -3.809 -0.100 0.999 0.040 -0.007 1.142e+01 -0.040 0.999 0.002 5.602e+00 0.007 -0.002 1.000 -5.479e-03
-4.810 -3.809 -0.100 0.999 0.042 -0.009 1.127e+01 -0.042 0.999 0.002 5.548e+00 0.009 -0.002 1.000 -6.675e-03
-4.610 -3.809 -0.100 0.999 0.044 -0.011 1.080e+01 -0.044 0.999 0.002 5.487e+00 0.011 0.002 1.000 -7.890e-03
-4.409 -3.809 -0.100 0.999 0.045 -0.014 1.083e+01 -0.045 0.999 0.002 5.417e+00 0.014 -0.002 1.000 -1.055e-02
-4.209 -3.809 -0.100 0.999 0.047 -0.018 1.051e+01 -0.047 0.999 0.002 5.336e+00 0.018 -0.001 1.000 -1.381e-02
-4.009 -3.809 -0.100 0.999 0.049 -0.023 1.011e+01 -0.049 0.999 0.002 5.241e+00 0.023 -0.001 1.000 -1.862e-02
-3.809 -3.809 -0.100 0.998 0.051 -0.031 9.619e+00 -0.051 0.999 0.002 5.127e+00 0.031 0.000 1.000 -2.619e-02
-3.609 -3.809 -0.100 0.998 0.057 -0.041 9.011e+00 -0.057 0.998 0.002 4.987e+00 0.041 0.001 0.999 -3.414e-02
-3.408 -3.809 -0.100 0.996 0.071 -0.052 8.273e+00 -0.071 0.997 0.002 4.817e+00 0.052 0.002 0.999 -2.909e-02
-3.208 -3.809 -0.100 0.993 0.102 -0.050 7.395e+00 -0.103 0.995 0.000 4.639e+00 0.050 0.005 0.999 6.789e-02
-3.008 -3.809 -0.100 0.994 0.114 0.003 6.507e+00 -0.114 0.994 -0.005 4.522e+00 -0.004 0.005 1.000 5.132e-02
-2.808 -3.809 -0.100 0.987 -0.066 -0.147 5.809e+00 0.067 0.998 0.000 4.639e+00 0.147 -0.010 0.989 -5.232e-01

trial 2 output: 32of 81

-2.608 -3.809 -0.100 -0.117 0.992 0.041 5.224e+00 0.979 0.122 -0.165 4.340e+00 0.169 -0.021 0.985 1.405e-01
-2.407 -3.809 -0.100 0.203 0.979 0.017 5.458e+00 0.979 -0.203 -0.013 4.000e+00 0.010 -0.020 1.000 1.021e-01
-2.207 -3.809 -0.100 0.408 0.913 0.023 5.717e+00 0.912 -0.409 0.028 4.060e+00 -0.034 -0.009 0.999 1.303e-02
-2.007 -3.809 -0.100 0.577 0.849 0.023 6.003e+00 0.849 -0.528 0.030 4.184e+00 -0.038 -0.004 0.999 -7.330e-03
-1.807 -3.809 -0.100 0.604 0.797 0.022 6.277e+00 0.797 -0.604 0.026 4.260e+00 -0.034 -0.002 0.999 -9.570e-03
-1.607 -3.809 -0.100 0.661 0.750 0.020 6.533e+00 0.750 -0.661 0.022 4.463e+00 -0.029 -0.001 1.000 -8.419e-03
-1.406 -3.809 -0.100 0.709 0.705 0.018 6.775e+00 -0.705 0.709 -0.018 4.582e+00 -0.025 0.000 1.000 -6.977e-03
-1.206 -3.809 -0.100 0.749 0.669 0.015 7.004e+00 -0.669 0.749 0.015 4.676e+00 -0.021 0.001 1.000 -6.803e-03
-1.006 -3.809 -0.100 0.784 0.621 0.013 7.223e+00 -0.620 0.784 -0.012 4.744e+00 -0.018 0.001 1.000 -4.934e-03
-0.806 -3.809 -0.100 0.814 0.581 0.011 7.432e+00 -0.581 0.814 -0.010 4.782e+00 -0.015 0.002 1.000 -4.316e-03
-0.606 -3.809 -0.100 0.839 0.544 0.009 7.630e+00 -0.544 0.839 -0.009 4.799e+00 -0.012 0.002 1.000 -3.897e-03
-0.405 -3.809 -0.100 0.860 0.511 0.007 7.818e+00 -0.511 0.860 0.007 4.768e+00 -0.010 0.003 1.000 -3.641e-03
-0.205 -3.809 -0.100 0.877 0.480 0.005 7.981e+00 -0.480 0.877 -0.007 4.718e+00 -0.007 0.004 1.000 -3.530e-03
-0.005 -3.809 -0.100 0.892 0.453 0.002 8.126e+00 -0.453 0.892 -0.006 4.642e+00 -0.005 0.005 1.000 -3.563e-03
0.195 -3.809 -0.100 0.904 0.428 -0.001 8.244e+00 -0.428 0.904 -0.006 4.542e+00 -0.002 0.006 1.000 -3.754e-03
0.395 -3.809 -0.100 0.914 0.405 -0.003 8.328e+00 -0.405 0.914 -0.007 4.421e+00 0.000 0.008 1.000 -4.135e-03
0.596 -3.809 -0.100 0.923 0.384 0.007 8.371e+00 -0.384 0.923 0.009 4.285e+00 -0.003 0.009 1.000 -4.768e-03
0.796 -3.809 -0.100 0.932 0.363 -0.010 8.363e+00 -0.363 0.932 -0.008 4.137e+00 0.006 0.011 1.000 -5.754e-03
0.996 -3.809 -0.100 0.939 0.343 -0.014 8.294e+00 -0.343 0.939 -0.009 3.982e+00 0.010 0.014 1.000 -7.261e-03
1.196 -3.809 -0.100 0.947 0.321 -0.019 8.148e+00 -0.321 0.947 -0.011 3.829e+00 0.014 0.016 1.000 -9.568e-03
1.396 -3.809 -0.100 0.955 0.296 -0.024 7.905e+00 -0.297 0.955 -0.012 3.693e+00 0.020 0.019 1.000 -1.311e-02
1.597 -3.809 -0.100 0.963 0.266 0.031 7.525e+00 -0.267 0.964 0.013 3.602e+00 0.027 0.021 0.999 -1.835e-02
1.797 -3.809 -0.100 0.975 0.221 -0.037 6.952e+00 -0.222 0.975 -0.012 3.612e+00 0.033 0.020 0.999 -2.392e-02
1.997 -3.809 -0.100 0.992 0.121 -0.034 6.125e+00 -0.121 0.993 -0.006 3.798e+00 0.033 0.010 0.999 -1.552e-02
2.197 -3.809 -0.100 0.977 -0.214 0.001 5.287e+00 0.214 0.976 0.033 3.977e+00 -0.008 -0.032 0.999 -1.638e-02
2.397 -3.809 -0.100 0.899 -0.435 0.044 5.007e+00 0.437 0.898 0.049 3.898e+00 0.018 -0.064 0.998 -2.580e-01
2.598 -3.809 -0.100 -0.451 0.890 0.058 4.726e+00 0.891 0.453 -0.018 4.010e+00 0.047 -0.052 0.998 1.556e-01
2.798 -3.809 -0.100 0.190 0.981 0.038 5.118e+00 0.982 -0.190 0.000 3.778e+00 -0.007 -0.037 0.999 4.322e-02
2.998 -3.809 -0.100 0.369 0.929 0.026 5.742e+00 0.929 -0.369 0.015 3.425e+00 -0.023 -0.019 1.000 -1.894e-03
3.198 -3.809 -0.100 0.448 0.894 0.019 6.135e+00 0.894 -0.448 0.019 3.325e+00 -0.026 -0.009 1.000 -7.321e-03
3.398 -3.809 -0.100 0.506 0.863 0.015 6.506e+00 0.862 -0.506 0.020 3.378e+00 -0.025 -0.003 1.000 -6.408e-03
3.599 -3.809 -0.100 0.555 0.832 0.012 6.733e+00 0.832 -0.555 0.019 3.489e+00 -0.023 0.001 1.000 -5.041e-03
3.799 -3.809 -0.100 0.598 0.802 0.010 6.908e+00 0.801 -0.598 0.018 3.625e+00 -0.021 0.003 1.000 -3.997e-03
3.999 -3.809 -0.100 0.636 0.771 0.009 7.051e+00 0.771 -0.636 0.017 3.769e+00 -0.019 0.004 1.000 -3.268e-03
4.199 -3.809 -0.100 0.671 0.741 0.008 7.171e+00 0.741 -0.671 0.016 3.911e+00 -0.017 0.005 1.000 -2.757e-03
4.399 -3.809 -0.100 0.703 0.711 0.007 7.274e+00 0.711 -0.703 0.016 4.050e+00 -0.016 0.006 1.000 -2.388e-03
4.600 -3.809 -0.100 0.732 0.682 0.007 7.366e+00 -0.681 0.732 -0.015 4.183e+00 -0.015 0.006 1.000 -2.113e-03
4.800 -3.809 -0.100 0.758 0.652 0.006 7.449e+00 -0.652 0.758 -0.014 4.308e+00 -0.014 0.006 1.000 -1.900e-03
5.000 -3.809 -0.100 0.782 0.624 0.006 7.526e+00 -0.623 0.782 -0.013 4.427e+00 -0.013 0.006 1.000 -1.729e-03
-5.010 -3.609 -0.100 0.999 0.035 -0.007 1.145e+01 -0.035 0.999 0.002 5.610e+00 0.007 -0.002 1.000 -5.087e-03
-4.810 -3.609 -0.100 0.999 0.037 -0.009 1.130e+01 -0.037 0.999 0.002 5.558e+00 0.009 -0.002 1.000 -6.639e-03
-4.610 -3.609 -0.100 0.999 0.039 -0.011 1.110e+01 -0.039 0.999 0.002 5.498e+00 0.011 -0.002 1.000 -8.323e-03
-4.409 -3.609 -0.100 0.999 0.041 -0.014 1.085e+01 -0.041 0.999 0.002 5.429e+00 0.014 -0.002 1.000 -1.060e-02
-4.209 -3.609 -0.100 0.999 0.043 -0.016 1.056e+01 -0.043 0.999 0.002 5.348e+00 0.016 -0.001 0.999 -1.389e-02
-4.009 -3.609 -0.100 0.999 0.043 -0.023 1.014e+01 -0.043 0.999 0.002 5.251e+00 0.024 -0.001 1.000 -1.876e-02
-3.809 -3.609 -0.100 0.999 0.044 -0.031 9.657e+00 -0.044 0.999 0.002 5.131e+00 0.031 -0.001 1.000 -2.587e-02
-3.609 -3.609 -0.100 0.998 0.044 -0.041 9.073e+00 -0.044 0.999 0.002 4.976e+00 0.041 0.000 0.999 -3.438e-02
-3.408 -3.609 -0.100 0.998 0.045 -0.053 8.397e+00 -0.045 0.999 0.002 4.779e+00 0.053 0.001 0.999 -2.909e-02
-3.208 -3.609 -0.100 0.997 0.056 -0.059 7.648e+00 -0.056 0.998 0.000 4.585e+00 0.059 0.000 1.000 -2.355e-02
-3.008 -3.609 -0.100 0.995 0.101 0.005 6.940e+00 -0.101 0.995 -0.007 4.592e+00 -0.006 0.006 1.000 5.295e-02
-2.808 -3.609 -0.100 0.985 0.116 -0.125 6.280e+00 -0.114 0.993 0.022 5.060e+00 0.127 -0.008 0.992 -4.968e-01
-2.608 -3.609 -0.100 -0.111 0.993 0.037 5.267e+00 0.984 0.115 -0.139 4.955e+00 0.142 -0.021 0.990 1.645e-01
-2.408 -3.609 -0.100 -0.137 0.911 0.016 5.316e+00 0.942 -0.137 -0.016 4.426e+00 0.010 -0.020 1.000 -0.327e-01
-2.207 -3.609 -0.100 -0.478 0.878 0.024 5.644e+00 0.878 -0.478 0.023 4.235e+00 -0.032 -0.010 0.999 1.408e-02
-2.007 -3.609 -0.100 0.553 0.833 0.024 5.966e+00 0.832 -0.554 0.028 4.271e+00 -0.037 -0.005 0.999 -7.063e-03
-1.807 -3.609 -0.100 0.615 0.788 0.023 6.248e+00 0.788 -0.615 0.025 4.396e+00 -0.034 -0.002 0.999 -9.610e-03
-1.607 -3.609 -0.100 0.670 0.742 0.020 6.503e+00 0.742 -0.670 0.021 4.536e+00 -0.029 -0.001 1.000 -8.517e-03

trial 2 output: 33of 81

-1.406 -3.609 -0.100 0.718 0.695 0.018 6.741e+00 -0.695 0.719 -0.017 4.663e+00 -0.025 -0.001 1.000 -7.063e-03
-1.206 -3.609 -0.100 0.761 0.648 0.016 6.967e+00 -0.648 0.762 -0.013 4.765e+00 -0.021 -0.000 1.000 -5.864e-03
-1.006 -3.609 -0.100 0.799 0.602 0.014 7.184e+00 -0.602 0.799 -0.011 4.837e+00 -0.018 0.000 1.000 -4.972e-

trial 2 output: 35of 81

0.996	-3.208	-0.100	0.971	0.240	-0.014	8.231e+00	-0.240	0.971	-0.004	4.031e+00	0.012	0.007	1.000	-7.485e-03
1.136	-3.208	-0.100	0.974	0.224	-0.019	8.084e+00	-0.224	0.974	-0.006	3.845e+00	0.017	0.010	1.000	-9.709e-03
1.396	-3.208	-0.100	0.978	0.207	-0.025	7.863e+00	-0.207	0.978	-0.007	3.652e+00	0.023	0.012	1.000	-1.131e-02
1.597	-3.208	-0.100	0.982	0.185	-0.033	7.570e+00	-0.186	0.982	-0.009	3.456e+00	0.031	0.015	0.999	-1.857e-02
1.797	-3.208	-0.100	0.987	0.160	-0.043	7.225e+00	-0.157	0.988	-0.012	3.150e+00	0.045	0.019	0.999	-2.664e-02
1.997	-3.208	-0.100	0.992	0.107	-0.073	6.854e+00	-0.108	0.994	-0.015	2.739e+00	0.071	0.023	0.997	-3.240e-02
2.197	-3.208	-0.100	0.997	0.081	-0.122	6.401e+00	-0.100	1.000	-0.009	2.294e+00	0.122	0.007	0.993	-7.042e-02
2.397	-3.208	-0.100	0.897	-0.377	-0.230	5.610e+00	0.368	0.926	-0.081	2.724e+00	0.244	-0.012	0.970	-4.369e-01
2.598	-3.208	-0.100	0.179	0.981	0.081	5.496e+00	0.962	0.197	-0.001	2.719e+00	0.207	-0.043	0.977	3.549e-02
2.798	-3.208	-0.100	0.157	0.987	0.027	5.771e+00	0.988	0.157	-0.007	2.712e+00	0.002	-0.027	1.000	3.146e-02
2.998	-3.208	-0.100	0.250	0.957	0.018	5.839e+00	0.957	-0.291	0.024	2.993e+00	-0.028	-0.010	1.000	-3.089e-03
3.198	-3.208	-0.100	0.369	0.929	0.014	5.955e+00	0.929	-0.369	0.025	3.216e+00	-0.029	-0.004	1.000	-6.499e-03
3.398	-3.208	-0.100	0.429	0.903	0.012	6.105e+00	0.903	-0.430	0.021	3.541e+00	-0.024	0.001	1.000	-4.377e-03
3.599	-3.208	-0.100	0.482	0.876	0.010	6.259e+00	0.876	-0.482	0.020	3.884e+00	-0.022	0.003	1.000	-3.579e-03
3.799	-3.208	-0.100	0.529	0.849	0.009	6.405e+00	0.848	-0.529	0.020	4.224e+00	-0.016	0.006	1.000	-2.176e-03
3.999	-3.208	-0.100	0.572	0.820	0.008	6.540e+00	0.820	-0.572	0.019	3.822e+00	-0.020	0.004	1.000	-3.038e-03
4.199	-3.208	-0.100	0.611	0.791	0.008	6.665e+00	0.791	-0.611	0.018	3.957e+00	-0.019	0.005	1.000	-2.387e-03
4.399	-3.208	-0.100	0.648	0.762	0.007	6.780e+00	0.762	-0.681	0.016	4.214e+00	-0.016	0.006	1.000	-2.176e-03
4.600	-3.208	-0.100	0.681	0.732	0.007	6.887e+00	0.732	-0.681	0.016	4.435e+00	-0.016	0.006	1.000	-2.004e-03
4.800	-3.208	-0.100	0.712	0.702	0.007	6.988e+00	-0.702	0.712	-0.015	4.656e+00	-0.015	0.006	1.000	-1.858e-03
5.000	-3.208	-0.100	0.741	0.672	0.006	7.084e+00	-0.672	0.741	-0.014	4.877e+00	-0.014	0.006	1.000	-1.729e-03
-5.010	-3.008	-0.100	1.000	0.019	-0.007	1.150e+01	-0.019	1.000	0.002	5.421e+00	0.007	-0.002	1.000	-5.479e-03
-4.810	-3.008	-0.100	1.000	0.021	-0.009	1.136e+01	-0.021	1.000	0.002	5.251e+00	0.011	-0.002	1.000	-8.379e-03
-4.610	-3.008	-0.100	1.000	0.024	-0.011	1.117e+01	-0.024	1.000	0.002	5.081e+00	0.014	-0.002	1.000	-1.072e-02
-4.410	-3.008	-0.100	1.000	0.026	-0.014	1.092e+01	-0.026	1.000	0.002	4.911e+00	0.017	-0.001	1.000	-1.412e-02
-4.209	-3.008	-0.100	0.999	0.028	-0.018	1.060e+01	-0.028	1.000	0.002	4.741e+00	0.019	-0.001	1.000	-1.914e-02
-4.009	-3.008	-0.100	0.999	0.031	-0.024	1.020e+01	-0.031	1.000	0.002	4.571e+00	0.021	-0.001	1.000	-2.647e-02
-3.809	-3.008	-0.100	0.999	0.033	-0.031	9.887e+00	-0.033	0.999	0.002	4.401e+00	0.023	-0.001	1.000	-3.512e-02
-3.609	-3.008	-0.100	0.998	0.037	-0.041	9.033e+00	-0.037	0.999	0.001	4.231e+00	0.025	-0.001	1.000	-4.579e-02
-3.408	-3.008	-0.100	0.998	0.046	-0.052	8.191e+00	-0.046	0.999	0.000	4.061e+00	0.027	-0.001	1.000	-5.879e-02
-3.208	-3.008	-0.100	0.996	0.076	-0.046	7.105e+00	-0.076	0.997	-0.004	3.891e+00	0.029	-0.002	1.000	-7.402e-02
-3.008	-3.008	-0.100	0.986	0.165	0.010	5.999e+00	-0.165	0.986	-0.024	3.721e+00	0.031	-0.002	1.000	-9.102e-02
-2.808	-3.008	-0.100	0.978	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-2.608	-3.008	-0.100	0.978	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-2.407	-3.008	-0.100	0.958	0.037	-0.041	9.033e+00	-0.037	0.999	0.001	5.092e+00	0.041	0.000	0.999	-5.312e-02
-2.207	-3.008	-0.100	0.958	0.046	-0.052	8.191e+00	-0.046	0.999	0.000	4.992e+00	0.052	0.002	0.999	-2.879e-02
-2.007	-3.008	-0.100	0.958	0.076	-0.046	7.105e+00	-0.076	0.997	-0.004	4.906e+00	0.076	-0.004	0.999	-7.702e-02
-1.807	-3.008	-0.100	0.958	0.165	0.010	5.999e+00	-0.165	0.986	-0.024	4.820e+00	0.165	-0.002	1.000	-9.102e-02
-1.607	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-1.406	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-1.206	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-1.006	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-0.806	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-0.606	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-0.405	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-0.205	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
-0.005	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
0.195	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
0.395	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
0.596	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
0.796	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
0.996	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
1.196	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
1.396	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
1.597	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
1.797	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01
1.997	-3.008	-0.100	0.958	0.122	-0.171	5.406e+00	0.122	0.993	-0.015	4.160e+00	0.171	-0.006	0.985	-6.023e-01

trial 2 output: 36of 81

2.197	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
2.397	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
2.598	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
2.798	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
2.998	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
3.198	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
3.398	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
3.598	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
3.798	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
3.998	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
4.198	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
4.398	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
4.598	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
4.798	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
4.998	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
5.198	-3.008	-0.100	0.986	-0.140	-0.077	5.949e+00	0.150	0.988	0.047	2.980e+00	0.069	-0.058	0.996	-5.009e-02
-4.810	-2.808	-0.100	1.000	0.015	-0.009	1.138e+01	-0.01							

trial 2 output: 41 of 81

trial 2 output: 42 of 8

-0.806	-1.607	-0.100	0.995	-0.088	0.022	7.380e+00	0.098	0.996	0.019	7.138e+00	-0.023	-0.017	0.000	-7.472e-03
-0.866	-1.607	-0.100	0.965	-0.261	0.012	7.800e+00	0.260	0.955	0.024	6.935e+00	-0.018	-0.020	1.000	-5.750e-03
-0.405	-1.607	-0.100	0.970	-0.243	0.007	8.370e+00	0.243	0.970	0.025	6.594e+00	-0.013	-0.023	0.000	-4.207e-03
-0.205	-1.607	-0.100	0.980	-0.198	0.003	8.804e+00	0.198	0.980	0.025	6.147e+00	-0.008	-0.024	1.000	-2.900e-03
-0.005	-1.607	-0.100	0.990	-0.144	-0.001	9.148e+00	0.144	0.989	0.023	5.636e+00	-0.002	-0.021	0.000	-2.000e-03
0.005	-1.607	-0.100	0.995	-0.098	-0.001	9.467e+00	0.098	0.995	0.023	5.115e+00	0.002	-0.021	0.000	-2.169e-03
0.395	-1.607	-0.100	1.000	-0.031	-0.006	9.467e+00	0.031	0.999	0.016	4.641e+00	0.006	-0.017	1.000	-2.696e-03
0.596	-1.607	-0.100	1.000	0.018	-0.008	9.436e+00	-0.018	1.000	0.017	4.241e+00	0.009	-0.012	1.000	-3.741e-03
0.796	-1.607	-0.100	0.998	0.060	-0.011	9.292e+00	-0.060	0.998	0.008	3.925e+00	0.011	-0.007	1.000	-5.188e-03
0.996	-1.607	-0.100	0.996	0.093	-0.014	9.093e+00	-0.093	0.996	0.006	3.511e+00	0.009	-0.007	1.000	-6.555e-03
1.196	-1.607	-0.100	0.991	0.135	-0.022	8.710e+00	-0.118	0.999	0.001	3.156e+00	0.017	0.001	1.000	-9.332e-04
1.396	-1.607	-0.100	0.991	0.135	-0.022	8.293e+00	-0.135	0.991	-0.001	3.393e+00	0.022	0.004	1.000	-1.254e-02
1.597	-1.607	-0.100	0.989	0.149	-0.028	7.766e+00	-0.149	0.989	-0.004	3.312e+00	0.027	0.008	1.000	-1.734e-02
1.797	-1.607	-0.100	0.986	0.163	-0.035	7.006e+00	-0.164	0.986	-0.008	3.275e+00	0.033	0.013	0.999	-2.422e-02
1.997	-1.607	-0.100	0.979	0.185	-0.042	6.148e+00	-0.185	0.983	-0.023	3.220e+00	0.037	0.019	0.999	-3.190e-02
2.197	-1.607	-0.100	0.949	0.313	-0.030	4.772e+00	-0.314	0.947	-0.068	3.220e+00	0.007	0.074	0.997	-9.908e-02
2.397	-1.607	-0.100	0.997	0.015	0.079	3.428e+00	0.004	0.977	-0.235	1.552e+00	-0.080	0.234	0.969	-7.634e-01
2.598	-1.607	-0.100	0.041	0.998	0.054	5.676e+00	0.999	-0.041	0.005	2.986e+00	-0.007	-0.053	0.999	1.740e-01
2.798	-1.607	-0.100	0.039	0.999	0.019	5.002e+00	0.999	-0.039	0.009	3.511e+00	-0.010	-0.019	1.000	3.253e-02
2.998	-1.607	-0.100	0.185	0.983	0.012	5.048e+00	0.989	-0.023	0.023	3.220e+00	-0.027	-0.023	1.000	3.872e-03
3.198	-1.607	-0.100	0.378	0.945	0.009	5.316e+00	0.963	-0.267	0.026	3.422e+00	-0.027	-0.003	1.000	-3.872e-03
3.398	-1.607	-0.100	0.328	0.945	0.009	5.316e+00	0.944	-0.328	0.025	3.395e+00	-0.027	0.000	1.000	-3.712e-03
3.599	-1.607	-0.100	0.379	0.925	0.008	5.400e+00	0.925	-0.379	0.025	3.485e+00	-0.026	0.002	1.000	-3.240e-03
3.799	-1.607	-0.100	0.425	0.905	0.007	5.599e+00	0.905	-0.425	0.024	3.593e+00	-0.025	0.003	1.000	-2.914e-03
3.999	-1.607	-0.100	0.466	0.885	0.007	5.670e+00	0.885	-0.466	0.023	3.				

trial 2 output: 43of 81

0.395 -1.407 -0.100 0.999 -0.054 -0.007 9.894e+00 0.054 0.998 0.022 4.502e+00 0.006 -0.023 1.000 -1.874e-03
0.596 -1.407 -0.100 1.000 0.011 -0.009 9.788e+00 -0.011 1.000 0.016 4.058e+00 0.010 -0.016 1.000 -3.070e-03
0.796 -1.407 -0.100 0.998 0.064 -0.011 9.566e+00 -0.064 0.998 0.010 3.736e+00 0.012 -0.009 1.000 -4.742e-03
0.996 -1.407 -0.100 0.998 0.134 -0.017 9.344e+00 -0.134 0.998 0.005 3.515e+00 0.014 -0.004 1.000 -6.730e-03
1.196 -1.407 -0.100 0.997 0.157 -0.022 9.122e+00 -0.157 0.998 -0.001 3.262e+00 0.021 0.005 1.000 -1.279e-02
1.396 -1.407 -0.100 0.987 0.157 -0.022 8.900e+00 -0.157 0.988 -0.001 3.040e+00 0.027 0.009 1.000 -1.701e-02
1.597 -1.407 -0.100 0.984 0.176 -0.028 8.678e+00 -0.176 0.984 -0.004 2.818e+00 0.035 0.018 1.000 -2.439e-02
1.797 -1.407 -0.100 0.979 0.199 -0.038 8.456e+00 -0.199 0.983 -0.031 2.596e+00 0.047 0.044 0.999 -3.673e-02
1.997 -1.407 -0.100 0.969 0.242 -0.056 8.234e+00 -0.242 0.980 0.007 2.374e+00 0.058 0.058 1.000 -5.159e-01
2.197 -1.407 -0.100 0.950 0.292 -0.112 8.012e+00 -0.292 0.980 0.007 2.152e+00 0.066 0.161 0.985 -1.519e-01
2.397 -1.407 -0.100 0.941 -0.032 -0.337 7.790e+00 -0.032 0.888 -0.441 1.930e+00 0.314 0.458 0.832 -1.055e+00
2.598 -1.407 -0.100 0.931 0.949 0.037 7.568e+00 0.931 -0.204 -0.176 1.718e+00 0.155 -0.090 0.984 1.494e-01
2.798 -1.407 -0.100 0.921 0.949 0.037 7.346e+00 0.921 -0.204 -0.176 1.494e+00 0.155 -0.090 0.984 1.494e-01
2.998 -1.407 -0.100 0.911 0.949 0.037 7.124e+00 0.911 -0.204 -0.176 1.272e+00 0.155 -0.090 0.984 1.272e-01
3.198 -1.407 -0.100 0.901 0.949 0.037 6.902e+00 0.901 -0.204 -0.176 1.050e+00 0.155 -0.090 0.984 1.050e-01
3.398 -1.407 -0.100 0.891 0.949 0.037 6.680e+00 0.891 -0.204 -0.176 8.278e-02 0.155 -0.090 0.984 8.278e-02
3.599 -1.407 -0.100 0.881 0.949 0.037 6.458e+00 0.881 -0.204 -0.176 6.056e-02 0.155 -0.090 0.984 6.056e-02
3.799 -1.407 -0.100 0.871 0.949 0.037 6.236e+00 0.871 -0.204 -0.176 3.834e-02 0.155 -0.090 0.984 3.834e-02
3.999 -1.407 -0.100 0.861 0.949 0.037 6.014e+00 0.861 -0.204 -0.176 1.612e-02 0.155 -0.090 0.984 1.612e-02
4.199 -1.407 -0.100 0.851 0.949 0.037 5.792e+00 0.851 -0.204 -0.176 -6.108e-03 0.155 -0.090 0.984 -6.108e-03
4.399 -1.407 -0.100 0.841 0.949 0.037 5.570e+00 0.841 -0.204 -0.176 -1.390e-02 0.155 -0.090 0.984 -1.390e-02
4.599 -1.407 -0.100 0.831 0.949 0.037 5.348e+00 0.831 -0.204 -0.176 -2.172e-02 0.155 -0.090 0.984 -2.172e-02
4.799 -1.407 -0.100 0.821 0.949 0.037 5.126e+00 0.821 -0.204 -0.176 -2.954e-02 0.155 -0.090 0.984 -2.954e-02
4.999 -1.407 -0.100 0.811 0.949 0.037 4.904e+00 0.811 -0.204 -0.176 -3.736e-02 0.155 -0.090 0.984 -3.736e-02
5.199 -1.407 -0.100 0.801 0.949 0.037 4.682e+00 0.801 -0.204 -0.176 -4.518e-02 0.155 -0.090 0.984 -4.518e-02
5.399 -1.407 -0.100 0.791 0.949 0.037 4.460e+00 0.791 -0.204 -0.176 -5.300e-02 0.155 -0.090 0.984 -5.300e-02
5.599 -1.407 -0.100 0.781 0.949 0.037 4.238e+00 0.781 -0.204 -0.176 -6.082e-02 0.155 -0.090 0.984 -6.082e-02
5.799 -1.407 -0.100 0.771 0.949 0.037 4.016e+00 0.771 -0.204 -0.176 -6.864e-02 0.155 -0.090 0.984 -6.864e-02
5.999 -1.407 -0.100 0.761 0.949 0.037 3.794e+00 0.761 -0.204 -0.176 -7.646e-02 0.155 -0.090 0.984 -7.646e-02
6.199 -1.407 -0.100 0.751 0.949 0.037 3.572e+00 0.751 -0.204 -0.176 -8.428e-02 0.155 -0.090 0.984 -8.428e-02
6.399 -1.407 -0.100 0.741 0.949 0.037 3.350e+00 0.741 -0.204 -0.176 -9.210e-02 0.155 -0.090 0.984 -9.210e-02
6.599 -1.407 -0.100 0.731 0.949 0.037 3.128e+00 0.731 -0.204 -0.176 -9.992e-02 0.155 -0.090 0.984 -9.992e-02
6.799 -1.407 -0.100 0.721 0.949 0.037 2.906e+00 0.721 -0.204 -0.176 -1.0.774e-01 0.155 -0.090 0.984 -1.0.774e-01
6.999 -1.407 -0.100 0.711 0.949 0.037 2.684e+00 0.711 -0.204 -0.176 -1.1.556e-01 0.155 -0.090 0.984 -1.1.556e-01
7.199 -1.407 -0.100 0.701 0.949 0.037 2.462e+00 0.701 -0.204 -0.176 -1.2.338e-01 0.155 -0.090 0.984 -1.2.338e-01
7.399 -1.407 -0.100 0.691 0.949 0.037 2.240e+00 0.691 -0.204 -0.176 -1.3.120e-01 0.155 -0.090 0.984 -1.3.120e-01
7.599 -1.407 -0.100 0.681 0.949 0.037 2.018e+00 0.681 -0.204 -0.176 -1.3.902e-01 0.155 -0.090 0.984 -1.3.902e-01
7.799 -1.407 -0.100 0.671 0.949 0.037 1.796e+00 0.671 -0.204 -0.176 -1.4.684e-01 0.155 -0.090 0.984 -1.4.684e-01
7.999 -1.407 -0.100 0.661 0.949 0.037 1.574e+00 0.661 -0.204 -0.176 -1.5.466e-01 0.155 -0.090 0.984 -1.5.466e-01
8.199 -1.407 -0.100 0.651 0.949 0.037 1.352e+00 0.651 -0.204 -0.176 -1.6.248e-01 0.155 -0.090 0.984 -1.6.248e-01
8.399 -1.407 -0.100 0.641 0.949 0.037 1.130e+00 0.641 -0.204 -0.176 -1.7.030e-01 0.155 -0.090 0.984 -1.7.030e-01
8.599 -1.407 -0.100 0.631 0.949 0.037 9.08e+00 0.631 -0.204 -0.176 -1.7.812e-01 0.155 -0.090 0.984 -1.7.812e-01
8.799 -1.407 -0.100 0.621 0.949 0.037 6.86e+00 0.621 -0.204 -0.176 -1.8.594e-01 0.155 -0.090 0.984 -1.8.594e-01
8.999 -1.407 -0.100 0.611 0.949 0.037 4.64e+00 0.611 -0.204 -0.176 -1.9.376e-01 0.155 -0.090 0.984 -1.9.376e-01
9.199 -1.407 -0.100 0.601 0.949 0.037 2.42e+00 0.601 -0.204 -0.176 -2.0.158e-01 0.155 -0.090 0.984 -2.0.158e-01
9.399 -1.407 -0.100 0.591 0.949 0.037 2.0e+00 0.591 -0.204 -0.176 -2.0.940e-01 0.155 -0.090 0.984 -2.0.940e-01
9.599 -1.407 -0.100 0.581 0.949 0.037 1.778e+00 0.581 -0.204 -0.176 -2.1.722e-01 0.155 -0.090 0.984 -2.1.722e-01
9.799 -1.407 -0.100 0.571 0.949 0.037 1.556e+00 0.571 -0.204 -0.176 -2.2.504e-01 0.155 -0.090 0.984 -2.2.504e-01
9.999 -1.407 -0.100 0.561 0.949 0.037 1.334e+00 0.561 -0.204 -0.176 -2.3.286e-01 0.155 -0.090 0.984 -2.3.286e-01
10.199 -1.407 -0.100 0.551 0.949 0.037 1.112e+00 0.551 -0.204 -0.176 -2.4.068e-01 0.155 -0.090 0.984 -2.4.068e-01
10.399 -1.407 -0.100 0.541 0.949 0.037 8.90e+00 0.541 -0.204 -0.176 -2.4.850e-01 0.155 -0.090 0.984 -2.4.850e-01
10.599 -1.407 -0.100 0.531 0.949 0.037 6.68e+00 0.531 -0.204 -0.176 -2.5.632e-01 0.155 -0.090 0.984 -2.5.632e-01
10.799 -1.407 -0.100 0.521 0.949 0.037 4.46e+00 0.521 -0.204 -0.176 -2.6.414e-01 0.155 -0.090 0.984 -2.6.414e-01
10.999 -1.407 -0.100 0.511 0.949 0.037 2.24e+00 0.511 -0.204 -0.176 -2.7.196e-01 0.155 -0.090 0.984 -2.7.196e-01
11.199 -1.407 -0.100 0.501 0.949 0.037 2.0e+00 0.501 -0.204 -0.176 -2.7.978e-01 0.155 -0.090 0.984 -2.7.978e-01
11.399 -1.407 -0.100 0.491 0.949 0.037 1.778e+00 0.491 -0.204 -0.176 -2.8.760e-01 0.155 -0.090 0.984 -2.8.760e-01
11.599 -1.407 -0.100 0.481 0.949 0.037 1.556e+00 0.481 -0.204 -0.176 -2.9.542e-01 0.155 -0.090 0.984 -2.9.542e-01
11.799 -1.407 -0.100 0.471 0.949 0.037 1.334e+00 0.471 -0.204 -0.176 -3.0.324e-01 0.155 -0.090 0.984 -3.0.324e-01
11.999 -1.407 -0.100 0.461 0.949 0.037 1.112e+00 0.461 -0.204 -0.176 -3.1.106e-01 0.155 -0.090 0.984 -3.1.106e-01
12.199 -1.407 -0.100 0.451 0.949 0.037 8.90e+00 0.451 -0.204 -0.176 -3.1.888e-01 0.155 -0.090 0.984 -3.1.888e-01
12.399 -1.407 -0.100 0.441 0.949 0.037 6.68e+00 0.441 -0.204 -0.176 -3.2.670e-01 0.155 -0.090 0.984 -3.2.670e-01
12.599 -1.407 -0.100 0.431 0.949 0.037 4.46e+00 0.431 -0.204 -0.176 -3.3.452e-01 0.155 -0.090 0.984 -3.3.452e-01
12.799 -1.407 -0.100 0.421 0.949 0.037 2.24e+00 0.421 -0.204 -0.176 -3.4.234e-01 0.155 -0.090 0.984 -3.4.234e-01
12.999 -1.407 -0.100 0.411 0.949 0.037 2.0e+00 0.411 -0.204 -0.176 -3.5.016e-01 0.155 -0.090 0.984 -3.5.016e-01
13.199 -1.407 -0.100 0.401 0.949 0.037 1.778e+00 0.401 -0.204 -0.176 -3.5.798e-01 0.155 -0.090 0.984 -3.5.798e-01
13.399 -1.407 -0.100 0.391 0.949 0.037 1.556e+00 0.391 -0.204 -0.176 -3.6.580e-01 0.155 -0.090 0.984 -3.6.580e-01
13.599 -1.407 -0.100 0.381 0.949 0.037 1.334e+00 0.381 -0.204 -0.176 -3.7.362e-01 0.155 -0.090 0.984 -3.7.362e-01
13.799 -1.407 -0.100 0.371 0.949 0.037 1.112e+00 0.371 -0.204 -0.176 -3.8.144e-01 0.155 -0.090 0.984 -3.8.144e-01
13.999 -1.407 -0.100 0.361 0.949 0.037 8.90e+00 0.361 -0.204 -0.176 -3.8.926e-01 0.155 -0.090 0.984 -3.8.926e-01
14.199 -1.407 -0.100 0.351 0.949 0.037 6.68e+00 0.351 -0.204 -0.176 -3.9.708e-01 0.155 -0.090 0.984 -3.9.708e-01
14.399 -1.407 -0.100 0.341 0.949 0.037 4.46e+00 0.341 -0.204 -0.176 -4.0.490e-01 0.155 -0.090 0.984 -4.0.490e-01
14.599 -1.407 -0.100 0.331 0.949 0.037 2.24e+00 0.331 -0.204 -0.176 -4.1.272e-01 0.155 -0.090 0.984 -4.1.272e-01
14.799 -1.407 -0.100 0.321 0.949 0.037 2.0e+00 0.321 -0.204 -0.176 -4.2.054e-01 0.155 -0.090 0.984 -4.2.054e-01
14.999 -1.407 -0.100 0.311 0.949 0.037 1.778e+00 0.311 -0.204 -0.176 -4.2.836e-01 0.155 -0.090 0.984 -4.2.836e-01
15.199 -1.407 -0.100 0.301 0.949 0.037 1.556e+00 0.301 -0.204 -0.176 -4.3.618e-01 0.155 -0.090 0.984 -4.3.618e-01
15.399 -1.407 -0.100 0.291 0.949 0.037 1.334e+00 0.291 -0.204 -0.176 -4.4.400e-01 0.155 -0.090 0.984 -4.4.400e-01
15.599 -1.407 -0.100 0.281 0.949 0.037 1.112e+00 0.281 -0.204 -0.176 -4.5.182e-01 0.155 -0.090 0.984 -4.5.182e-01
15.799 -1.407 -0.100 0.271 0.949 0.037 8.90e+00 0.271 -0.204 -0.176 -4.5.964e-01 0.155 -0.090 0.984 -4.5.964e-01
15.999 -1.407 -0.100 0.261 0.949 0.037 6.68e+00 0.261 -0.204 -0.176 -4.6.746e-01 0.155 -0.090 0.984 -4.6.746e-01
16.199 -1.407 -0.100 0.251 0.949 0.037 4.46e+00 0.251 -0.204 -0.176 -4.7.528e-01 0.155 -0.090 0.984 -4.7.528e-01
16.399 -1.407 -0.100 0.241 0.949 0.037 2.24e+00 0.241 -0.204 -0.176 -4.8.310e-01 0.155 -0.090 0.984 -4.8.310e-01
16.599 -1.407 -0.100 0.231 0.949 0.037 2.0e+00 0.231 -0.204 -0.176 -4.9.092e-01 0.155 -0.090 0.984 -4.9.092e-01
16.799 -1.407 -0.100 0.221 0.949 0.037 1.778e+00 0.221 -0.204 -0.176 -4.9.874e-01 0.155 -0.090 0.984 -4.9.874e-01
16.999 -1.407 -0.100 0.211 0.949 0.037 1.556e+00 0.211 -0.204 -0.176 -5.0.656e-01 0.155 -0.090 0.984 -5.0.656e-01
17.199 -1.407 -0.100 0.201 0.949 0.037 1.334e+00 0.201 -0.204 -0.176 -5.1.438e-01 0.155 -0.090 0.984 -5.1.438e-01
17.399 -1.407 -0.100 0.191 0.949 0.037 1.112e+00 0.191 -0.204 -0.176 -5.2.220e-01 0.155 -0.090 0.984 -5.2.220e-01
17.599 -1.407 -0.100 0.181 0.949 0.037 8.90e+00 0.181 -0.204 -0.176 -5.3.002e-01 0.155 -0.090 0.984 -5.3.002e-01
17.799 -1.407 -0.100 0.171 0.949 0.037 6.68e+00 0.171 -0.204 -0.176 -5.3.784e-01 0.155 -0.090 0.984 -5.3.784e-01
17.999 -1.407 -0.100 0.161 0.949 0.037 4.46e+00 0.161 -0.204 -0.176 -5.4.566e-01 0.155 -0.090 0.984 -5.4.566e-01
18.199 -1.407 -0.100 0.151 0.949 0.037 2.24e+00 0.151 -0.204 -0.176 -5.5.348e-01 0.155 -0.090 0.984 -5.5.348e-01
18.399 -1.407 -0.100 0.141 0.949 0.037 2.0e+00 0.141 -0.204 -0.176 -5.6.130e-01 0.155 -0.090 0.984 -5.6.130e-01
18.599 -1.407 -0.100 0.131 0.949 0.037 1.778e+00 0.131 -0.204 -0.176 -5.6.912e-01 0.155 -0.090 0.984 -5.6.912e-01
18.799 -1.407 -0.100 0.121 0.949 0.037 1.556e+00 0.121 -0.204 -0.176 -5.7.694e-01 0.155 -0.090 0.984 -5.7.694e-01
18.999 -1.407 -0.100 0.111 0.949 0.037 1.334e+00 0.111 -0.204 -0.176 -5.8.476e-01 0.155 -0.090 0.984 -5.8.476e-01
19.199 -1.407 -0.100 0.101 0.949 0.037 1.112e+00 0.101 -0.204 -0.176 -5.9.258e-01 0.155 -0.090 0.984 -5.9.258e-01
19.399 -1.407 -0.100 0.091 0.949 0.037 8.90e+00 0.091 -0.204 -0.176 -6.0.040e-01 0.155 -0.090 0.984 -6.0.040e-01
19.599 -1.407 -0.100 0.081 0.949 0.037 6.68e+00 0.081 -0.204 -0.176 -6.0.822e-01 0.155 -0.090 0.984 -6.0.822e-01
19.799 -1.407 -0.100 0.071 0.949 0.037 4.46e+00 0.071 -0.204 -0.176 -6.1.604e-01 0.155 -0.090 0.984 -6.1.604e-01
19.999 -1.407 -0.100 0.061 0.949 0.037 2.24e+00 0.061 -0.204 -0.176 -6.2.386e-01 0.155 -0.090 0.984 -6.2.386e-01
20.199 -1.407 -0.100 0.051 0.949 0.037 2.0e+00 0.051 -0.204 -0.176 -6.3.168e-01 0.155 -0.090 0.984 -6.3.168e-01
20.399 -1.407 -0.100 0.041 0.949 0.037 1.778e+00 0.041 -0.204 -0.176 -6.3.950e-01 0.155 -0.090 0.984 -6.3.950e-01
20.599 -1.407 -0.100 0.031 0.949 0.037 1.556e+00 0.031 -0.204 -0.176 -6.4.732e-01 0.155 -0.090 0.984 -6.4.732e-01
20.799 -1.407 -0.100 0.021 0.949 0.037 1.334e+00 0.021 -0.204 -0.176 -6.5.514e-01 0.155 -0.090 0.984 -6.5.514e-01
20.999 -1.407 -0.100 0.011 0.949 0.037 1.112e+00 0.011 -0.204 -0.176 -6.6.296e-01 0.155 -0.090 0.984 -6.6.296e-01
21.199 -1.407 -0.100 0.001 0.949 0.037 8.90e+00 0.001 -0.204 -0.176 -6.7.078e-01 0.155 -0.090 0.984 -6.7.078e-01
21.399 -1.407 -0.100 0.001 0.949 0.037 6.68e+00 0.001 -0.204 -0.176 -6.7.860e-01 0.155 -0.090 0.984 -6.7.860e-01
21.599 -1.407 -0.100 0.001 0.949 0.037 4.46e+00 0.001 -0.204 -0.176 -6.8.642e-01 0.155 -0.090 0.984 -6.8.642e-01
21.799 -1.407 -0.100 0.001 0.949 0.037 2.24e+00 0.001 -0.204 -0.176 -6.9.424e-01 0.155 -0.090 0.984 -6.9.424e-01
21.999 -1.407 -0.100 0.001 0.949 0.037 2.0e+00 0.001 -0.204 -0.176 -7.0.206e-01 0.155 -0.090 0.984 -7.0.206e-01
22.199 -1.407 -0.100 0.001 0.949 0.037 1.778e+00 0.001 -0.204 -0.176 -7.0.988e-01 0.155 -0.090 0.984 -7.0.988e-01
22.399 -1.407 -0.100 0.001 0.949 0.037 1.556e+00 0.001 -0.204 -0.176 -7.1.770e-01 0.155 -0.090 0.984 -7.1.770e-01
22.599 -1.407 -0.100 0.001 0.949 0.037 1.334e+00 0.001 -0.204 -0.176 -7.2.552e-01 0.155 -0.090 0.984 -7.2.552e-01
22.799 -1.407 -0.100 0.001 0.949 0.037 1.112e+00 0.001 -0.204 -0.176 -7.3.334e-01 0.155 -0.090 0.984 -7.3.334e-01
22.999 -1.407 -0.100 0.001 0.949 0.037 8.90e+00 0.001 -0.204 -0.176 -7.4.116e-01 0.155 -0.090 0.984 -7.4.116e-01
23.199 -1.407 -0.100 0.001 0.949 0.037 6.68e+00 0.001 -0.204 -0.176 -7.4.898e-01 0.155 -0.090 0.984 -7.4.898e-01
23.399 -1.407 -0.100 0.001 0.949 0.037 4.46e+00 0.001 -0.204 -0.1

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trial 2 output: 49 of 81

trial 2 output: 48of 81

trial 2 output: 50 of 81

trial 2 output: 51of 81

-0.205	0.394	-0.100	-0.730	0.677	0.093	5.120e+00	0.526	0.643	-0.557	3.737e+00	0.437	0.358	0.825	-1.324e+00
-0.005	0.394	-0.100	-0.368	0.830	0.420	5.259e+00	-0.342	-0.540	0.769	2.966e+00	0.865	0.139	0.483	-3.697e+00
-0.195	0.394	-0.100	0.040	0.925	0.379	4.882e+00	0.848	-0.232	0.476	-6.533e-02	0.528	0.302	-0.794	-1.221e+00
0.395	0.394	-0.100	0.549	0.825	0.133	5.357e+00	0.829	-0.558	0.035	1.063e+00	-0.103	-0.091	0.998	-4.339e-02
0.696	0.394	-0.100	0.683	0.729	0.048	6.493e+00	-0.727	-0.485	0.046	-1.156e+00	-0.067	-0.004	0.998	-4.339e-02
0.796	0.394	-0.100	0.719	0.694	0.022	7.006e+00	-0.693	0.720	-0.039	1.478e+00	-0.043	0.013	0.999	-2.464e-02
0.996	0.394	-0.100	0.738	0.675	0.008	7.153e+00	-0.675	0.738	-0.021	1.895e+00	-0.020	0.010	1.000	-1.636e-02
1.196	0.394	-0.100	0.746	0.666	-0.001	7.085e+00	-0.666	0.746	-0.006	2.328e+00	-0.004	0.005	1.000	-1.301e-02
1.396	0.394	-0.100	0.746	0.666	-0.008	6.869e+00	-0.666	0.746	-0.006	2.753e+00	0.010	0.002	1.000	-1.256e-02
1.597	0.394	-0.100	0.735	0.678	-0.015	6.535e+00	-0.678	0.735	-0.015	3.162e+00	0.022	-0.001	1.000	-1.439e-02
1.797	0.394	-0.100	0.702	0.712	-0.023	6.105e+00	0.711	-0.702	-0.029	3.547e+00	0.037	-0.003	0.999	-1.912e-02
1.997	0.394	-0.100	0.613	0.790	-0.031	5.633e+00	0.788	-0.614	-0.050	3.867e+00	0.058	-0.006	0.998	-3.271e-02
2.197	0.394	-0.100	0.394	0.918	-0.033	5.336e+00	0.912	-0.396	-0.105	3.998e+00	0.109	-0.011	0.994	-1.148e-01
2.397	0.394	-0.100	0.075	0.997	0.009	5.962e+00	0.978	-0.186	-0.094	2.519e+00	0.094	-0.008	0.995	8.911e-02
2.598	0.394	-0.100	0.186	0.982	-0.009	6.403e+00	0.963	-0.260	0.035	2.330e+00	-0.036	0.004	0.999	-9.888e-04
2.798	0.394	-0.100	0.179	0.984	0.009	4.466e+00	0.984	-0.179	0.006	2.045e+00	-0.008	-0.008	1.000	1.169e-02
2.998	0.394	-0.100	0.203	0.979	0.008	4.593e+00	0.979	-0.203	0.024	2.093e+00	-0.026	-0.003	1.000	2.154e-03
3.198	0.394	-0.100	0.238	0.971	0.007	4.693e+00	0.971	-0.238	0.032	2.198e+00	-0.032	0.001	0.999	3.619e-04
3.398	0.394	-0.100	0.268	0.963	0.036	4.798e+00	0.963	-0.268	0.035	2.300e+00	-0.036	0.004	0.999	-9.888e-04
3.599	0.394	-0.100	0.293	0.956	0.006	4.906e+00	0.955	-0.293	0.037	2.483e+00	-0.037	0.005	0.999	-2.033e-03
3.799	0.394	-0.100	0.315	0.949	0.005	5.013e+00	0.949	-0.315	0.037	2.656e+00	-0.036	0.006	0.999	-2.747e-03
3.999	0.394	-0.100	0.334	0.942	0.005	5.118e+00	0.942	-0.334	0.035	2.845e+00	-0.035	0.007	0.999	-3.176e-03
4.199	0.394	-0.100	0.354	0.935	0.006	5.219e+00	0.935	-0.354	0.034	3.045e+00	-0.034	0.007	0.999	-3.391e-03
4.399	0.394	-0.100	0.374	0.927	0.006	5.316e+00	0.927	-0.374	0.032	3.253e+00	-0.031	0.007	0.999	-3.452e-03
4.600	0.394	-0.100	0.396	0.918	0.006	5.409e+00	0.918	-0.396	0.029	3.465e+00	-0.029	0.006	1.000	-3.411e-03
4.800	0.394	-0.100	0.421	0.907	0.006	5.498e+00	0.907	-0.421	0.027	3.677e+00	-0.027	0.006	1.000	-3.302e-03
5.000	0.394	-0.100	0.448	0.894	0.006	5.585e+00	0.894	-0.448	0.025	3.887e+00	-0.025	0.006	1.000	-3.153e-03
-5.100	0.595	-0.100	0.999	-0.049	-0.002	1.138e+01	0.049	0.999	-0.002	5.951e+00	0.003	-0.002	1.000	-5.169e-03
-5.300	0.595	-0.100	0.999	-0.047	-0.005	1.128e+01	0.047	0.999	-0.002	5.894e+00	0.004	-0.002	1.000	-6.451e-03
-5.500	0.595	-0.100	0.999	-0.044	-0.007	1.113e+01	0.044	0.999	-0.002	5.825e+00	0.007	-0.003	1.000	-8.204e-03
-5.700	0.595	-0.100	0.999	-0.040	-0.010	1.093e+01	0.040	0.999	-0.002	5.737e+00	0.010	-0.003	1.000	-1.068e-02
-5.900	0.595	-0.100	0.999	-0.036	-0.014	1.066e+01	0.036	0.999	-0.002	5.628e+00	0.014	-0.003	1.000	-1.430e-02
-6.100	0.595	-0.100	0.999	-0.030	-0.017	1.032e+01	0.030	1.000	-0.002	5.487e+00	0.019	-0.003	1.000	-1.971e-02
-6.300	0.595	-0.100	0.999	-0.024	-0.027	9.878e+00	0.024	1.000	-0.002	5.302e+00	0.027	-0.003	1.000	-2.766e-02
-6.500	0.595	-0.100	0.999	-0.016	-0.038	9.336e+00	0.016	1.000	-0.002	5.053e+00	0.038	-0.003	0.999	-3.692e-02
-6.700	0.595	-0.100	0.999	-0.007	-0.052	8.703e+00	0.008	1.000	-0.004	4.714e+00	0.052	-0.005	0.999	-2.741e-02
-6.900	0.595	-0.100	0.999	0.002	-0.062	8.010e+00	-0.001	1.000	0.013	4.290e+00	0.062	-0.015	0.999	-1.005e-01
-7.100	0.595	-0.100	0.999	0.012	-0.072	7.248e+00	-0.041	0.997	0.058	3.881e+00	0.014	-0.058	0.998	1.365e-01
-7.300	0.595	-0.100	0.999	0.022	-0.082	6.401e+00	-0.038	0.999	0.037	3.427e+00	0.026	-0.025	0.993	-9.011e-01
-7.500	0.595	-0.100	0.999	0.032	-0.092	5.488e+00	-0.035	0.998	0.037	3.095e+00	0.017	0.046	0.999	1.261e-01
-7.700	0.595	-0.100	0.999	0.042	-0.102	4.566e+00	-0.032	0.998	0.037	2.801e+00	0.017	0.046	0.999	1.261e-01
-7.900	0.595	-0.100	0.999	0.052	-0.112	3.644e+00	-0.029	0.998	0.037	2.507e+00	0.017	0.046	0.999	1.261e-01
-8.100	0.595	-0.100	0.999	0.062	-0.122	2.722e+00	-0.026	0.998	0.037	2.213e+00	0.017	0.046	0.999	1.261e-01
-8.300	0.595	-0.100	0.999	0.072	-0.132	1.800e+00	-0.023	0.998	0.037	1.919e+00	0.017	0.046	0.999	1.261e-01
-8.500	0.595	-0.100	0.999	0.082	-0.142	9.78e+00	-0.020	0.998	0.037	1.625e+00	0.017	0.046	0.999	1.261e-01
-8.700	0.595	-0.100	0.999	0.092	-0.152	9.78e+00	-0.017	0.998	0.037	1.331e+00	0.017	0.046	0.999	1.261e-01
-8.900	0.595	-0.100	0.999	0.102	-0.162	9.78e+00	-0.014	0.998	0.037	1.037e+00	0.017	0.046	0.999	1.261e-01
-9.100	0.595	-0.100	0.999	0.112	-0.172	9.78e+00	-0.011	0.998	0.037	7.43e+00	0.017	0.046	0.999	1.261e-01
-9.300	0.595	-0.100	0.999	0.122	-0.182	9.78e+00	-0.008	0.998	0.037	4.49e+00	0.017	0.046	0.999	1.261e-01
-9.500	0.595	-0.100	0.999	0.132	-0.192	9.78e+00	-0.005	0.998	0.037	1.55e+00	0.017	0.046	0.999	1.261e-01
-9.700	0.595	-0.100	0.999	0.142	-0.202	9.78e+00	-0.002	0.998	0.037	6.61e+00	0.017	0.046	0.999	1.261e-01
-9.900	0.595	-0.100	0.999	0.152	-0.212	9.78e+00	-0.001	0.998	0.037	3.67e+00	0.017	0.046	0.999	1.261e-01
-10.100	0.595	-0.100	0.999	0.162	-0.222	9.78e+00	-0.001	0.998	0.037	7.73e+00	0.017	0.046	0.999	1.261e-01
-10.300	0.595	-0.100	0.999	0.172	-0.232	9.78e+00	-0.001	0.998	0.037	1.79e+00	0.017	0.046	0.999	1.261e-01
-10.500	0.595	-0.100	0.999	0.182	-0.242	9.78e+00	-0.001	0.998	0.037	2.85e+00	0.017	0.046	0.999	1.261e-01
-10.700	0.595	-0.100	0.999	0.192	-0.252	9.78e+00	-0.001	0.998	0.037	3.91e+00	0.017	0.046	0.999	1.261e-01
-10.900	0.595	-0.100	0.999	0.202	-0.262	9.78e+00	-0.001	0.998	0.037	4.97e+00	0.017	0.046	0.999	1.261e-01
-11.100	0.595	-0.100	0.999	0.212	-0.272	9.78e+00	-0.001	0.998	0.037	6.03e+00	0.017	0.046	0.999	1.261e-01
-11.300	0.595	-0.100	0.999	0.222	-0.282	9.78e+00	-0.001	0.998	0.037	7.09e+00	0.017	0.046	0.999	1.261e-01
-11.500	0.595	-0.100	0.999	0.232	-0.292	9.78e+00	-0.001	0.998	0.037	8.15e+00	0.017	0.046	0.999	1.261e-01
-11.700	0.595	-0.100	0.999	0.242	-0.302	9.78e+00	-0.001	0.998	0.037	9.21e+00	0.017	0.046	0.999	1.261e-01
-11.900	0.595	-0.100	0.999	0.252	-0.312	9.78e+00	-0.001	0.998	0.037	1.027e+01	0.017	0.046	0.999	1.261e-01
-12.100	0.595	-0.100	0.999	0.262	-0.322	9.78e+00	-0.001	0.998	0.037	1.133e+01	0.017	0.046	0.999	1.261e-01
-12.300	0.595	-0.100	0.999	0.272	-0.332	9.78e+00	-0.001	0.998	0.037	1.239e+01	0.017	0.046	0.999	1.261e-01
-12.500	0.595	-0.100	0.999	0.282	-0.342	9.78e+00	-0.001	0.998	0.037	1.345e+01	0.017	0.046	0.999	1.261e-01
-12.700	0.595	-0.100	0.999	0.292	-0.352	9.78e+00	-0.001	0.998	0.037	1.451e+01	0.017	0.046	0.999	1.261e-01
-12.900	0.595	-0.100	0.999	0.302	-0.362	9.78e+00	-0.001	0.998	0.037	1.557e+01	0.017	0.046	0.999	1.261e-01
-13.100	0.595	-0.100	0.999	0.312	-0.372	9.78e+00	-0.001	0.998	0.037	1.663e+01	0.017	0.046	0.999	1.261e-01
-13.300	0.595	-0.100	0.999	0.322	-0.382	9.78e+00	-0.001	0.998	0.037	1.769e+01	0.017	0.046	0.999	1.261e-01
-13.500	0.595	-0.100	0.999	0.332	-0.392	9.78e+00	-0.001	0.998	0.037	1.875e+01	0.017	0.046	0.999	1.261e-01
-13.700	0.595	-0.100	0.999	0.342	-0.402	9.78e+00	-0.001	0.998	0.037	1.981e+01	0.017	0.046	0.999	1.261e-01
-13.900	0.595	-0.100	0.999	0.352	-0.412	9.78e+00	-0.001	0.998	0.037	2.087e+01	0.017	0.046	0.999	1.261e-01
-14.100	0.595	-0.100	0.999	0.362	-0.422	9.78e+00	-0.001	0.998	0.037	2.193e+01	0.017	0.046	0.999	1.261e-01
-14.300	0.595	-0.100	0.999	0.372	-0.432	9.78e+00	-0.001	0.998	0.037	2.299e+01	0.017	0.046	0.999	1.261e-01
-14.500														

trial 2 output: 55of 81

4.600	1.195	-0.100	0.281	0.960	0.004	5.240e+00	0.959	-0.281	0.035	3.175e+00	-0.035	0.005	0.999	-4.125e-03
4.800	1.195	-0.100	0.299	0.954	0.005	5.327e+00	0.954	-0.299	0.032	3.430e+00	-0.032	0.005	0.999	-3.211e-03
5.000	1.195	-0.100	0.320	0.948	0.005	5.406e+00	0.948	-0.320	0.028	3.681e+00	-0.028	0.005	1.000	-3.657e-03
-4.010	1.395	-0.100	0.999	-0.035	-0.004	1.134e+01	0.038	0.999	0.000	5.967e+00	0.002	-0.000	1.000	-5.205e-03
-4.810	1.395	-0.100	0.999	-0.035	-0.004	1.125e+01	0.035	0.999	0.000	5.902e+00	0.004	-0.000	1.000	-6.513e-03
-4.610	1.395	-0.100	0.999	-0.032	-0.006	1.111e+01	0.032	0.999	0.000	5.823e+00	0.006	-0.000	1.000	-8.303e-03
-4.409	1.395	-0.100	0.999	-0.028	-0.009	1.093e+01	0.028	1.000	0.000	5.725e+00	0.009	-0.000	1.000	-1.084e-02
-4.209	1.395	-0.100	1.000	-0.023	-0.013	1.067e+01	0.023	1.000	0.000	5.605e+00	0.013	-0.000	1.000	-1.456e-02
-4.009	1.395	-0.100	1.000	-0.016	-0.019	1.032e+01	0.016	1.000	-0.000	5.459e+00	0.019	0.000	1.000	-2.014e-02
-3.809	1.395	-0.100	1.000	-0.007	-0.026	9.859e+00	0.007	1.000	-0.001	5.281e+00	0.026	0.001	1.000	-2.833e-02
-3.609	1.395	-0.100	0.999	0.007	-0.037	9.251e+00	-0.007	1.000	-0.001	5.065e+00	0.037	0.002	0.999	-3.765e-02
-3.408	1.395	-0.100	0.999	0.032	-0.050	8.696e+00	-0.032	0.999	-0.002	4.799e+00	0.050	0.004	0.999	-5.615e-02
-3.208	1.395	-0.100	0.997	0.061	-0.047	8.111e+00	-0.061	0.998	-0.009	4.456e+00	0.047	0.012	0.999	-1.218e-01
-3.008	1.395	-0.100	0.997	0.061	0.047	6.666e+00	-0.059	0.998	-0.031	3.869e+00	-0.049	0.028	0.998	9.837e-02
-2.808	1.395	-0.100	0.987	0.057	-0.150	6.543e+00	-0.057	0.998	0.006	2.735e+00	0.150	0.003	0.987	-7.666e-01
-2.608	1.395	-0.100	0.962	0.178	-0.205	5.293e+00	-0.170	0.984	0.055	2.133e+00	0.212	-0.018	0.977	-1.172e-01
-2.407	1.395	-0.100	0.989	0.143	-0.034	4.850e+00	-0.144	0.989	-0.042	2.092e+00	0.034	0.046	0.999	-1.343e-01
-2.207	1.395	-0.100	0.998	0.062	0.017	4.510e+00	-0.061	0.997	-0.052	2.109e+00	-0.021	0.051	0.999	-1.594e-02
-2.007	1.395	-0.100	1.000	0.022	0.018	4.546e+00	-0.021	0.999	-0.050	2.114e+00	-0.019	0.050	0.999	-1.197e-02
-1.807	1.395	-0.100	1.000	0.003	0.009	5.759e+00	-0.002	0.999	-0.052	2.094e+00	-0.009	0.052	0.999	-1.578e-02
-1.607	1.395	-0.100	1.000	-0.013	-0.002	5.971e+00	0.013	0.998	-0.057	2.038e+00	0.003	0.057	0.998	-1.606e-02
-1.406	1.395	-0.100	1.000	-0.029	-0.013	6.072e+00	0.028	0.998	-0.063	1.947e+00	0.015	0.063	0.998	-1.722e-02
-1.206	1.395	-0.100	0.999	-0.048	-0.024	6.050e+00	0.046	0.996	-0.072	1.829e+00	0.028	0.071	0.997	-2.032e-02
-1.006	1.395	-0.100	0.997	-0.072	-0.036	5.890e+00	0.069	0.994	-0.083	1.698e+00	0.042	0.080	0.990	-2.596e-02
-0.806	1.395	-0.100	0.993	-0.103	-0.051	5.577e+00	0.098	0.991	-0.096	1.569e+00	0.060	0.090	0.994	-3.487e-02
-0.606	1.395	-0.100	0.988	-0.142	-0.069	5.090e+00	0.133	0.985	-0.112	1.459e+00	0.084	0.102	0.991	-4.699e-02
-0.405	1.395	-0.100	0.976	-0.195	-0.092	4.446e+00	0.181	0.973	-0.141	1.386e+00	0.117	0.121	0.986	-6.919e-02
-0.205	1.395	-0.100	0.950	-0.279	-0.142	3.634e+00	0.243	0.943	-0.229	1.365e+00	0.198	0.183	0.963	-1.909e-01
-0.005	1.395	-0.100	0.827	-0.474	-0.301	2.669e+00	0.291	0.821	-0.492	1.558e+00	0.480	0.320	0.817	-7.069e-01
0.195	1.395	-0.100	-0.399	0.844	0.414	2.914e+00	-0.364	-0.524	0.770	7.147e-01	0.867	0.110	0.486	-1.364e+00
0.395	1.395	-0.100	0.052	0.983	0.777	4.102e+00	0.708	-0.161	6.877	1.495e-01	0.704	0.090	0.705	-4.744e-01
0.596	1.395	-0.100	0.280	0.958	0.061	4.601e+00	0.937	-0.287	2.200	8.248e-01	-0.209	-0.001	0.978	-7.759e-02
0.796	1.395	-0.100	0.358	0.933	0.027	5.182e+00	0.928	-0.359	0.100	1.224e+00	-0.103	0.011	0.995	-3.592e-02
0.996	1.395	-0.100	0.372	0.928	0.013	5.618e+00	0.927	-0.373	0.051	1.603e+00	-0.053	0.007	0.999	-2.154e-02
1.196	1.395	-0.100	0.362	0.932	0.005	5.915e+00	0.932	-0.362	0.019	1.970e+00	-0.020	0.002	1.000	-1.522e-02
1.396	1.395	-0.100	0.332	0.943	0.000	6.111e+00	0.943	-0.332	0.005	2.293e+00	-0.005	-0.002	1.000	-1.338e-02
1.597	1.395	-0.100	0.282	0.959	-0.003	6.239e+00	0.959	-0.282	-0.028	2.553e+00	0.028	-0.005	1.000	-1.483e-02
1.797	1.395	-0.100	0.215	0.977	-0.004	6.320e+00	0.975	-0.215	-0.055	2.751e+00	0.055	-0.008	0.998	-2.018e-02
1.997	1.395	-0.100	0.137	0.991	-0.003	6.390e+00	0.986	-0.137	-0.094	2.935e+00	0.094	-0.010	0.996	-3.524e-02
2.197	1.395	-0.100	0.070	0.997	-0.001	6.656e+00	0.983	-0.077	-0.165	3.305e+00	0.165	-0.014	0.986	-8.853e-02
2.397	1.395	-0.100	-0.015	1.000	0.022	9.197e+00	0.956	0.021	-0.292	3.069e+00	0.293	-0.017	0.956	-2.056e-01
2.598	1.395	-0.100	0.507	0.861	-0.050	2.848e+00	0.850	-0.508	-0.137	2.000e+00	0.143	-0.028	0.989	1.970e-02
2.798	1.395	-0.100	0.202	0.979	0.004	4.023e+00	0.979	-0.202	-0.007	9.627e-01	0.006	-0.005	1.000	1.231e-02
2.998	1.395	-0.100	0.162	0.987	0.005	4.256e+00	0.986	-0.162	0.036	1.161e+00	-0.036	0.001	0.999	5.020e-03
3.198	1.395	-0.100	0.163	0.987	0.004	4.397e+00	0.985	-0.163	0.049	1.382e+00	-0.050	0.004	0.999	1.616e-03
3.398	1.395	-0.100	0.175	0.985	0.004	4.524e+00	0.983	-0.175	0.054	1.599e+00	-0.054	0.006	0.999	-1.196e-03
3.599	1.395	-0.100	0.188	0.982	0.004	4.656e+00	0.981	-0.187	0.054	1.825e+00	-0.054	0.006	0.999	-2.988e-03
3.799	1.395	-0.100	0.200	0.980	0.004	4.782e+00	0.978	-0.200	0.051	2.065e+00	-0.051	0.007	0.999	-3.986e-03
3.999	1.395	-0.100	0.212	0.977	0.004	4.901e+00	0.976	-0.212	0.048	2.317e+00	-0.047	0.007	0.999	-4.489e-03
4.199	1.395	-0.100	0.224	0.975	0.004	5.011e+00	0.974	-0.223	0.044	2.578e+00	-0.044	0.006	0.999	-4.573e-03
4.399	1.395	-0.100	0.236	0.972	0.004	5.112e+00	0.971	-0.236	0.040	2.844e+00	-0.040	0.006	0.999	-4.496e-03
4.600	1.395	-0.100	0.250	0.968	0.004	5.206e+00	0.968	-0.250	0.036	3.110e+00	-0.036	0.005	0.999	-4.307e-03
4.800	1.395	-0.100	0.265	0.964	0.004	5.292e+00	0.964	-0.265	0.033	3.375e+00	-0.033	0.005	0.999	-4.045e-03
5.000	1.395	-0.100	0.284	0.959	0.004	5.373e+00	0.959	-0.284	0.030	3.636e+00	-0.030	0.004	1.000	-3.790e-03
-5.010	1.596	-0.100	0.999	-0.036	-0.002	1.134e+01	0.036	0.999	-0.000	5.956e+00	0.002	0.000	1.000	-5.211e-03
-4.810	1.596	-0.100	0.999	-0.032	-0.004	1.125e+01	0.032	0.999	-0.000	5.889e+00	0.004	0.000	1.000	-6.526e-03
-4.610	1.596	-0.100	1.000	-0.029	-0.006	1.112e+01	0.029	1.000	-0.000	5.805e+00	0.006	0.000	1.000	-8.327e-03

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-4.409	1.596	-0.100	1.000	-0.025	-0.009	1.094e+01	0.025	1.000	-0.000	5.702e+00	0.009	0.000	1.000	-1.089e-02
-4.209	1.596	-0.100	1.000	-0.020	-0.013	1.068e+01	0.020	1.000	-0.001	5.576e+00	0.013	0.000	1.000	-1.464e-02
-4.009	1.596	-0.100	1.000	-0.013	-0.019	1.035e+01	0.013	1.000	-0.001	5.418e+00	0.019	0.001	1.000	-2.027e-02
-3.809	1.596	-0.100	1.000	-0.005	-0.025	9.907e+00	0.005	1.000	-0.000	5.220e+00	0.027	0.001	1.000	-2.850e-02
-3.609	1.596	-0.100	0.999	0.010	-0.038	9.340e+00	-0.010	1.000	-0.001	4.970e+00	0.038	0.002	0.999	-3.827e-02
-3.408	1.596	-0.100	0.998	0.034	-0.051	8.633e+00	-0.034	0.999	0.000	4.659e+00	0.051	0.001	0.999	-2.744e-02
-3.208	1.596	-0.100	0.996	0.076	-0.045	7.757e+00	-0.076	0.997	0.005	4.316e+00	-0.045	-0.002	0.999	-1.265e-01
-3.008	1.596	-0.100	0.991	0.128	-0.031	6.694e+00	-0.129	0.991	0.019	4.045e+00	-0.029	0.023	0.999	-1.194e-01
-2.808	1.596	-0.100	0.953	0.164	-0.257	5.824e+00	0.163	0.986	-0.053	3.483e+00	0.257	-0.020	0.966	-9.813e-01
-2.608	1.596	-0.100	0.955	0.108	-0.276	4.285e+00	-0.134	0.988	-0.078	2.101e+00	0.264	0.112	0.958	-3.579e-03
-2.407	1.596	-0.100	0.999	-0.046	-0.030	4.467e+00	0.044	0.997	-0.061	2.149e+00	0.032	0.060	0.998	-1.316e-01
-2.207	1.596	-0.100	0.999	-0.047	0.020	5.007e+00	0.048	0.998	-0.042	2.022e+00	-0.018	0.043	0.999	-1.712e-02
-2.007	1.596	-0.100	0.999	-0.048	0.019	5.425e+00	0.049	0.998	-0.040	1.980e+00	-0.017	0.041	0.999	-9.045e-02
-1.807	1.596	-0.100	0.998	-0.051	0.009	5.733e+00	0.055	0.998	-0.042	1.944e+00	-0.007	0.042	0.999	-1.411e-02
-1.607	1.596	-0.100	0.998	-0.065	-0.002	5.935e+00	0.065	0.997	-0.046	1.882e+00	0.005	0.046	0.999	-1.410e-02
-1.406	1.596	-0.100	0.997	-0.078	-0.012	6.025e+00	0.077	0.996	-0.052	1.789e+00	0.016	0.051	0.999	-1.483e-02
-1.206	1.596	-0.100	0.995	-0.094	-0.023									

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-0.806	2.196	-0.100	0.973	-0.225	-0.044	5.566e+00	0.224	0.974	-0.031	1.192e+00	0.050	0.020	0.999	-2.164e-02
-0.806	2.196	-0.100	0.970	-0.237	-0.060	5.145e+00	0.235	0.971	-0.040	1.075e+00	0.067	0.024	0.997	-2.960e-02
-0.405	2.196	-0.100	0.965	-0.252	-0.080	4.584e+00	0.248	0.967	-0.050	9.754e-01	0.090	0.028	0.996	-3.950e-02
-0.205	2.196	-0.100	0.956	-0.273	-0.107	3.899e+00	0.268	0.961	-0.063	8.998e-01	0.120	0.032	0.992	-5.197e-02
-0.005	2.196	-0.100	0.930	-0.328	-0.163	3.117e+00	0.313	0.943	-0.114	8.500e-01	0.192	0.055	0.980	-1.705e-01
0.195	2.196	-0.100	0.793	-0.590	-0.151	2.444e+00	0.472	0.752	-0.461	7.286e-01	0.385	0.294	0.875	-3.623e-01
0.395	2.196	-0.100	0.601	0.748	0.281	7.829e+00	0.781	-0.625	-0.005	4.673e+00	-0.172	-0.223	0.960	-1.759e+00
0.596	2.196	-0.100	0.230	0.973	0.031	4.180e+00	0.967	-0.232	-0.104	8.244e-01	-0.108	-0.006	0.994	-0.417e+00
0.796	2.196	-0.100	0.173	0.965	0.011	4.892e+00	0.971	-0.173	0.164	4.483e-01	-0.163	0.019	0.986	-4.327e-02
0.996	2.196	-0.100	0.159	0.987	0.005	5.452e+00	0.983	-0.157	0.092	1.119e+00	-0.091	0.009	0.996	-2.666e-02
1.196	2.196	-0.100	0.142	0.990	0.003	5.925e+00	0.989	-0.142	0.039	1.387e+00	-0.039	0.003	0.999	-1.713e-02
1.396	2.196	-0.100	0.124	0.992	0.001	6.333e+00	0.992	-0.124	0.002	1.594e+00	-0.002	-0.000	1.000	-1.390e-02
1.597	2.196	-0.100	0.108	0.994	-0.001	6.699e+00	0.994	-0.108	-0.030	1.721e+00	0.030	-0.012	1.000	-1.309e-02
1.797	2.196	-0.100	0.101	0.995	-0.005	7.032e+00	0.993	-0.102	-0.065	1.765e+00	0.065	-0.022	0.998	-2.108e-02
1.997	2.196	-0.100	0.109	0.994	-0.013	7.353e+00	0.988	-0.109	-0.108	1.719e+00	0.109	0.001	0.994	-3.721e-02
2.197	2.196	-0.100	0.094	0.995	-0.025	7.689e+00	0.981	-0.097	-0.168	1.531e+00	0.170	0.008	0.985	-9.672e-02
2.397	2.196	-0.100	-0.072	0.997	-0.003	7.234e+00	0.964	0.069	-0.258	1.253e+00	0.255	0.022	0.967	-2.453e-02
2.598	2.196	-0.100	-0.211	0.977	0.032	4.696e+00	0.976	0.212	-0.046	1.692e+00	0.052	-0.021	0.998	5.798e-02
2.798	2.196	-0.100	0.111	0.994	0.009	5.894e+00	0.994	-0.111	-0.025	1.426e+00	0.024	-0.011	1.000	1.493e-02
2.998	2.196	-0.100	0.125	0.992	0.003	3.852e+00	0.992	-0.125	0.022	1.092e+00	-0.023	-0.000	1.000	1.166e-03
3.198	2.196	-0.100	0.104	0.995	0.002	4.106e+00	0.993	-0.104	0.057	1.097e+00	-0.057	0.004	0.998	3.009e-03
3.398	2.196	-0.100	0.096	0.995	0.002	4.315e+00	0.993	-0.096	0.069	1.252e+00	-0.069	0.005	0.998	-1.592e-03
3.599	2.196	-0.100	0.096	0.995	0.002	4.928e+00	0.993	-0.096	0.068	1.477e+00	-0.068	0.005	0.998	-4.099e-03
3.799	2.196	-0.100	0.099	0.995	0.002	4.646e+00	0.993	-0.099	0.063	1.739e+00	-0.063	0.005	0.998	-5.219e-03
3.999	2.196	-0.100	0.103	0.995	0.002	4.782e+00	0.993	-0.103	0.057	2.022e+00	-0.057	0.004	0.998	-5.567e-03
4.199	2.196	-0.100	0.107	0.994	0.002	4.904e+00	0.993	-0.107	0.051	2.315e+00	-0.051	0.004	0.999	-5.513e-03
4.399	2.196	-0.100	0.112	0.994	0.002	5.012e+00	0.993	-0.112	0.045	2.613e+00	-0.045	0.003	0.999	-5.240e-03
4.599	2.196	-0.100	0.117	0.993	0.002	5.109e+00	0.992	-0.117	0.040	2.915e+00	-0.040	0.003	0.999	-4.920e-03
4.800	2.196	-0.100	0.123	0.992	0.002	5.197e+00	0.992	-0.123	0.036	3.206e+00	-0.036	0.003	0.999	-4.549e-03
5.000	2.196	-0.100	0.130	0.991	0.002	5.277e+00	0.991	-0.130	0.032	3.496e+00	-0.032	0.002	0.999	-4.190e-03
-5.010	2.396	-0.100	1.000	-0.029	-0.002	1.136e+01	0.029	1.000	-0.002	5.856e+00	0.002	0.000	1.000	-6.568e-03
-4.810	2.396	-0.100	1.000	-0.021	-0.001	1.128e+01	0.026	1.000	-0.002	5.784e+00	0.004	0.002	1.000	-6.568e-03
-4.610	2.396	-0.100	1.000	-0.024	-0.006	1.116e+01	0.024	1.000	-0.002	5.688e+00	0.006	0.002	1.000	-8.417e-03
-4.409	2.396	-0.100	1.000	-0.021	-0.009	1.098e+01	0.021	1.000	-0.003	5.573e+00	0.009	0.002	1.000	-1.105e-02
-4.209	2.396	-0.100	1.000	-0.017	-0.013	1.074e+01	0.017	1.000	-0.003	5.438e+00	0.013	0.003	1.000	-1.452e-02
-4.009	2.396	-0.100	1.000	-0.014	-0.017	1.059e+01	0.014	1.000	-0.003	5.280e+00	0.017	0.003	1.000	-2.074e-02
-3.809	2.396	-0.100	1.000	-0.010	-0.027	1.042e+01	0.009	1.000	-0.003	5.098e+00	0.027	0.003	1.000	-2.930e-02
-3.609	2.396	-0.100	0.999	-0.005	-0.038	9.289e+00	0.004	1.000	-0.003	4.895e+00	0.038	0.003	0.999	-3.904e-02
-3.408	2.396	-0.100	0.999	0.001	-0.050	8.433e+00	-0.001	1.000	-0.003	4.675e+00	0.050	0.003	0.999	-2.670e-02
-3.208	2.396	-0.100	0.999	-0.004	-0.038	7.334e+00	0.004	1.000	-0.004	4.408e+00	0.038	0.003	0.999	1.289e-02
-3.008	2.396	-0.100	0.997	-0.051	0.064	6.433e+00	0.051	0.999	0.005	3.782e+00	-0.065	-0.001	0.998	9.606e-02
-2.808	2.396	-0.100	0.989	0.003	-0.148	6.382e+00	-0.002	1.000	0.005	2.485e+00	0.148	-0.005	0.989	-7.881e-01
-2.608	2.396	-0.100	0.969	0.121	-0.216	5.085e+00	-0.117	0.993	0.030	2.051e+00	0.216	-0.004	0.976	1.131e-01
-2.407	2.396	-0.100	0.999	-0.015	-0.030	4.685e+00	0.014	0.999	-0.038	2.055e+00	0.031	0.038	0.999	1.375e-01
-2.207	2.396	-0.100	0.990	-0.140	0.021	5.085e+00	0.141	0.990	-0.016	1.916e+00	-0.019	0.019	1.000	1.868e-02
-2.007	2.396	-0.100	0.982	-0.188	0.020	5.507e+00	0.188	0.982	-0.009	1.812e+00	-0.019	0.007	1.000	-9.320e-03
-1.807	2.396	-0.100	0.978	-0.208	0.010	5.813e+00	0.208	0.978	-0.001	1.736e+00	-0.010	0.003	1.000	-1.267e-02
-1.607	2.396	-0.100	0.975	-0.220	0.000	6.016e+00	0.220	0.975	-0.002	1.615e+00	-0.001	0.002	1.000	-1.209e-02
-1.406	2.396	-0.100	0.973	-0.229	-0.010	6.099e+00	0.229	0.974	-0.005	1.545e+00	-0.001	0.002	1.000	-1.195e-02
-1.206	2.396	-0.100	0.972	-0.236	-0.020	6.066e+00	0.216	0.972	-0.008	1.430e+00	-0.022	0.003	1.000	-1.309e-02
-1.006	2.396	-0.100	0.969	-0.243	-0.031	5.913e+00	0.243	0.970	-0.012	1.302e+00	-0.033	0.004	0.999	-1.579e-02
-0.806	2.396	-0.100	0.967	-0.251	-0.043	5.636e+00	0.250	0.968	-0.017	1.172e+00	-0.046	0.006	0.998	-2.047e-02
-0.606	2.396	-0.100	0.964	-0.258	-0.057	5.228e+00	0.257	0.966	-0.024	1.050e+00	-0.062	0.008	0.998	-2.773e-02
-0.405	2.396	-0.100	0.961	-0.267	-0.076	4.681e+00	0.265	0.963	-0.032	9.064e-01	-0.077	0.011	0.997	-7.702e-02
-0.205	2.396	-0.100	0.956	-0.277	-0.102	3.988e+00	0.273	0.961	-0.048	8.723e-01	-0.111	0.018	0.994	-5.310e-02
-0.005	2.396	-0.100	0.947	-0.279	-0.157	3.144e+00	0.265	0.958	-0.108	8.525e-01	0.181	0.060	0.982	-1.414e-01
0.195	2.396	-0.100	0.910	-0.220	-0.351	2.110e+00	0.141	0.961	-0.237	9.451e-01	0.389	0.166	0.906	-3.180e-01

trial 2 output: 60 of 81

0.395	2.396	-0.100	-0.175	0.970	0.168	2.243e+00	0.748	0.242	-0.619	6.344e-01	0.641	-0.017	0.768	-2.022e-01
0.596	2.396	-0.100	0.097	0.995	0.028	4.224e+00	0.851	-0.097	0.517	2.791e-01	-0.517	0.026	0.856	-1.297e-01
0.796	2.396	-0.100	0.122	0.992	0.007	4.915e+00	0.968	-0.121	0.218	6.868e-01	-0.217	0.020	0.976	-5.589e-02
0.996	2.396	-0.100	0.118	0.993	0.003	5.465e+00	0.988	-0.118	0.105	1.009e+00	-0.104	0.010	0.994	-2.877e-02
1.196	2.396	-0.100	0.103	0.995	0.001	5.956e+00	0.994	-0.103	0.045	1.267e+00	-0.045	0.003	0.999	-1.772e-02
1.396	2.396	-0.100	0.083	0.997	0.001	6.381e+00	0.997	-0.083	0.002	1.477e+00	-0.003	-0.001	1.000	-1.393e-02
1.597	2.396	-0.100	0.061	0.998	0.002	6.740e+00	0.998	-0.061	-0.036	1.639e+00	0.035	-0.004	0.999	-1.511e-02
1.797	2.396	-0.100	0.037	0.999	0.003	7.024e+00	0.996	-0.037	-0.078	1.794e+00	0.078	-0.006	0.997	-2.210e-02
1.997	2.396	-0.100	0.013	1.000	0.005	7.234e+00	0.991	-0.012	-0.134	2.067e+00	0.134	-0.007	0.991	-4.088e-02
2.197	2.396	-0.100	0.005	1.000	0.007	7.648e+00	0.978	-0.003	-0.205	2.789e+00	0.205	-0.007	0.978	-5.849e-02
2.397	2.396	-0.100	-0.038	0.999	0.012	1.134e+01	0.967	0.040	-0.251	2.851e+00	0.252	-0.002	0.968	4.331e-01
2.598	2.396	-0.100	0.867	0.488	-0.100	2.431e+00	-0.471	0.868	0.157	1.469e+00	0.163	-0.089	0.983	-2.948e-02
2.798	2.396	-0.100	0.208	0.978	-0.002	3.664e+00	0.975	-0.208	-0.074	3.623e-01	0.073	-0.014	0.997	1.390e-02
2.998	2.396	-0.100	0.113	0.994	0.001	3.971e+00	0.992	-0.113	0.005	4.123e-01	0.054	0.005	0.999	8.406e-03
3.198	2.396	-0.100	0.081	0.997	0.001	4.152e+00	0.994	-0.081	0.075	8.762e-01	-0.075	0.005	0.997	1.780e-03
3.398	2.396	-0.100	0.072	0.997	0.001	4.320e+00	0.994	-0.072	0.078	1.132e+00	-0.077	0.004	0.997	-2.364e-03
3.599	2.396	-0.100	0.071	0.998	0.001	4.482e+00	0.995	-0.070	0.073	1.397e				

trial 2 output: 63of 81

3.999	2.997	-0.100	-0.015	1.000	-0.000	4.759e+00	0.998	0.015	0.062	1.898e+00	-0.062	-0.000	0.998	-6.116e-03
4.199	2.997	-0.100	-0.018	1.000	-0.000	4.887e+00	0.998	0.018	0.054	2.208e+00	-0.054	-0.001	0.999	-5.926e-03
4.399	2.997	-0.100	-0.022	1.000	-0.000	4.999e+00	0.999	0.022	0.048	2.522e+00	-0.048	-0.001	0.999	-5.561e-03
4.600	2.997	-0.100	-0.026	1.000	-0.001	5.099e+00	0.999	0.026	0.042	2.835e+00	-0.042	-0.001	0.999	-5.135e-03
4.800	2.997	-0.100	-0.031	1.000	-0.001	5.187e+00	0.999	0.031	0.037	3.143e+00	-0.037	-0.001	0.999	-4.703e-03
5.000	2.997	-0.100	-0.036	0.999	-0.001	5.266e+00	0.999	0.036	0.033	3.445e+00	-0.033	-0.001	0.999	-4.288e-03
-3.609	3.197	-0.100	0.999	-0.033	-0.003	1.139e+01	0.033	0.999	-0.003	5.723e+00	0.003	0.003	0.999	-5.168e-03
-4.810	3.197	-0.100	0.999	-0.032	-0.004	1.132e+01	0.032	0.999	-0.004	5.630e+00	0.005	0.003	1.000	-6.544e-03
-4.610	3.197	-0.100	0.999	-0.031	-0.007	1.121e+01	0.031	1.000	-0.004	5.521e+00	0.007	0.004	1.000	-8.439e-03
-4.409	3.197	-0.100	1.000	-0.030	-0.010	1.104e+01	0.030	1.000	-0.004	5.394e+00	0.010	0.004	1.000	-1.114e-02
-4.209	3.197	-0.100	0.999	-0.028	-0.014	1.080e+01	0.028	1.000	-0.004	5.246e+00	0.014	0.004	1.000	-1.511e-02
-4.009	3.197	-0.100	0.999	-0.028	-0.020	1.047e+01	0.028	1.000	-0.004	5.074e+00	0.020	0.004	1.000	-2.108e-02
-3.809	3.197	-0.100	0.999	-0.030	-0.028	1.002e+01	0.030	1.000	-0.004	4.871e+00	0.029	0.004	1.000	-2.988e-02
-3.609	3.197	-0.100	0.999	-0.037	-0.040	9.132e+00	0.037	0.999	-0.004	4.636e+00	0.040	0.003	0.999	-3.929e-02
-3.408	3.197	-0.100	0.999	-0.058	-0.052	8.887e+00	0.058	0.998	-0.003	4.359e+00	0.052	0.000	0.999	-2.765e-02
-3.208	3.197	-0.100	0.995	-0.095	-0.040	7.798e+00	0.095	0.995	0.001	4.076e+00	0.040	-0.005	0.999	1.298e-01
-3.008	3.197	-0.100	0.994	-0.092	-0.060	7.074e+00	0.091	0.996	0.020	3.807e+00	-0.061	-0.014	0.998	1.004e-01
-2.808	3.197	-0.100	0.992	-0.046	-0.119	6.953e+00	-0.045	0.999	0.006	3.270e+00	0.119	-0.000	0.993	-7.353e-01
-2.608	3.197	-0.100	0.979	-0.102	-0.174	5.783e+00	-0.102	0.995	0.000	2.618e+00	0.174	0.010	0.985	1.708e-01
-2.407	3.197	-0.100	0.996	-0.086	-0.022	5.243e+00	0.086	0.996	-0.033	2.350e+00	0.025	0.031	0.999	1.373e-01
-2.207	3.197	-0.100	0.968	-0.252	0.021	5.436e+00	0.252	0.968	0.002	2.190e+00	-0.021	0.004	1.000	1.747e-02
-2.007	3.197	-0.100	0.948	-0.318	0.020	5.805e+00	0.318	0.948	0.020	2.064e+00	-0.025	-0.013	1.000	-1.129e-02
-1.807	3.197	-0.100	0.940	-0.341	0.010	6.129e+00	0.341	0.940	0.025	1.956e+00	-0.018	-0.020	1.000	-1.479e-02
-1.607	3.197	-0.100	0.937	-0.350	0.000	6.354e+00	0.349	0.937	0.026	1.841e+00	-0.009	-0.024	1.000	-1.395e-02
-1.406	3.197	-0.100	0.936	-0.352	-0.009	6.469e+00	0.352	0.936	0.025	1.713e+00	-0.001	-0.026	1.000	-1.333e-02
-1.206	3.197	-0.100	0.936	-0.352	-0.017	6.471e+00	0.353	0.935	0.024	1.571e+00	0.008	-0.029	1.000	-1.379e-02
-1.006	3.197	-0.100	0.936	-0.351	-0.024	6.357e+00	0.351	0.936	0.024	1.421e+00	0.016	-0.032	0.999	-1.552e-02
-0.805	3.197	-0.100	0.937	-0.348	-0.037	6.124e+00	0.349	0.937	0.025	1.248e+00	0.026	-0.036	0.999	-1.875e-02
-0.606	3.197	-0.100	0.938	-0.343	-0.048	5.767e+00	0.344	0.939	0.026	1.119e+00	0.036	-0.041	0.998	-2.401e-02
-0.405	3.197	-0.100	0.940	-0.335	-0.064	5.280e+00	0.337	0.941	0.029	9.798e-01	0.050	-0.049	0.998	-3.184e-02
-0.205	3.197	-0.100	0.942	-0.324	-0.084	4.659e+00	0.327	0.944	0.037	8.570e-01	0.067	-0.062	0.996	-4.131e-02
-0.005	3.197	-0.100	0.944	-0.308	-0.115	3.295e+00	0.317	0.945	0.066	7.537e-01	0.088	-0.099	0.991	-6.500e-02
0.195	3.197	-0.100	0.933	-0.303	-0.195	3.035e+00	0.337	0.925	0.175	6.977e-01	0.128	-0.229	0.995	-2.011e-01
0.395	3.197	-0.100	0.682	-0.531	-0.503	1.963e+00	0.717	0.622	0.315	5.880e-01	0.146	-0.575	0.805	-7.888e-01
0.596	3.197	-0.100	0.228	0.830	-0.510	7.222e+00	0.886	-0.394	-0.245	3.918e+00	0.404	0.396	0.825	-1.506e-01
0.796	3.197	-0.100	0.064	0.997	-0.041	4.640e+00	0.997	-0.062	0.048	8.985e-01	-0.045	0.044	0.998	-5.882e-03
0.996	3.197	-0.100	0.031	0.999	-0.017	5.459e+00	0.991	-0.028	0.131	7.501e-01	-0.130	0.050	0.991	-3.323e-02
1.196	3.197	-0.100	0.005	1.000	-0.008	6.111e+00	0.997	-0.005	0.075	8.859e-01	-0.075	0.008	0.997	-2.273e-02
1.396	3.197	-0.100	-0.007	1.000	-0.003	6.650e+00	1.000	0.007	0.019	1.044e+00	-0.019	0.003	1.000	-1.606e-02
1.597	3.197	-0.100	-0.006	1.000	-0.002	7.113e+00	1.000	0.006	-0.029	1.162e+00	0.029	0.002	1.000	-1.574e-02
1.797	3.197	-0.100	0.011	1.000	-0.003	7.231e+00	0.997	-0.012	0.078	1.217e+00	-0.078	0.002	0.997	-2.170e-02
1.997	3.197	-0.100	0.047	0.999	-0.011	7.871e+00	0.990	-0.048	-0.131	1.242e+00	0.131	0.005	0.991	-3.667e-02
2.197	3.197	-0.100	0.062	0.998	-0.023	8.255e+00	0.981	-0.066	-0.180	1.113e+00	0.181	0.012	0.983	-7.337e-02
2.397	3.197	-0.100	-0.090	0.996	-0.006	7.748e+00	0.976	-0.087	-0.200	9.427e-01	0.199	0.023	0.980	-4.151e-03
2.598	3.197	-0.100	-0.298	0.954	0.032	4.572e+00	0.953	0.299	-0.040	1.598e+00	0.047	-0.018	0.999	-5.065e-02
2.798	3.197	-0.100	0.014	1.000	-0.005	3.255e+00	0.999	-0.014	0.038	1.431e+00	-0.038	0.004	0.999	-1.916e-02
2.998	3.197	-0.100	0.033	0.999	-0.002	3.657e+00	0.999	-0.033	0.015	9.998e-01	-0.014	0.002	1.000	1.205e-02
3.198	3.197	-0.100	-0.001	1.000	-0.002	3.984e+00	0.998	0.002	0.062	9.461e-01	-0.062	0.001	0.998	3.944e-03
3.398	3.197	-0.100	-0.021	1.000	-0.001	4.244e+00	0.997	0.021	0.079	1.086e+00	-0.079	-0.000	0.997	-1.958e-03
3.599	3.197	-0.100	-0.023	0.999	-0.001	4.452e+00	0.997	0.023	0.077	1.319e+00	-0.077	-0.001	0.997	-8.832e-03
3.799	3.197	-0.100	-0.039	0.999	-0.001	4.624e+00	0.997	0.039	0.070	1.588e+00	-0.070	-0.002	0.998	-5.902e-03
3.999	3.197	-0.100	-0.045	0.999	-0.001	4.771e+00	0.997	0.045	0.062	1.899e+00	-0.062	-0.002	0.998	-6.097e-03
4.199	3.197	-0.100	-0.051	0.999	-0.001	4.899e+00	0.997	0.051	0.054	2.211e+00	-0.054	-0.002	0.999	-5.895e-03
4.399	3.197	-0.100	-0.057	0.998	-0.001	5.012e+00	0.997	0.057	0.047	2.525e+00	-0.047	-0.002	0.999	-5.527e-03
4.600	3.197	-0.100	-0.063	0.998	-0.001	5.111e+00	0.997	0.063	0.042	2.839e+00	-0.042	-0.002	0.999	-5.101e-03
4.800	3.197	-0.100	-0.071	0.997	-0.001	5.200e+00	0.997	0.071	0.037	3.147e+00	-0.037	-0.001	0.999	-4.670e-03
5.000	3.197	-0.100	-0.079	0.997	-0.001	5.279e+00	0.996	0.079	0.033	3.448e+00	-0.033	-0.001	0.999	-4.259e-03

trial 2 output: 64of 81

trial 2 output: 64of 81

-5.010	3.197	-0.100	0.999	-0.037	-0.003	1.140e+01	0.037	0.999	-0.003	5.686e+00	0.003	0.003	1.000	-5.135e-03
-4.810	3.197	-0.100	0.999	-0.036	-0.005	1.133e+01	0.036	0.999	-0.004	5.590e+00	0.005	0.004	1.000	-6.515e-03
-4.610	3.197	-0.100	0.999	-0.035	-0.007	1.122e+01	0.035	0.999	-0.004	5.478e+00	0.007	0.004	1.000	-8.420e-03
-4.409	3.197	-0.100	0.999	-0.034	-0.010	1.105e+01	0.034	0.999	-0.004	5.349e+00	0.010	0.004	1.000	-1.114e-02
-4.209	3.197	-0.100	0.999	-0.033	-0.015	1.081e+01	0.033	0.999	-0.005	5.202e+00	0.015	0.004	1.000	-1.514e-02
-4.009	3.197	-0.100	0.999	-0.032	-0.020	1.047e+01	0.031	0.999	-0.005	5.036e+00	0.020	0.004	1.000	-2.116e-02
-3.809	3.197	-0.100	0.999	-0.031	-0.029	9.995e+00	0.031	1.000	-0.005	4.852e+00	0.029	0.004	1.000	-3.003e-02
-3.609	3.197	-0.100	0.999	-0.033	-0.040	9.345e+00	0.033	0.999	-0.004	4.657e+00	0.040	0.003	0.999	-4.019e-02
-3.408	3.197	-0.100	0.998	-0.044	-0.052	8.463e+00	0.043	0.999	-0.003	4.457e+00	0.052	0.001	0.999	-2.827e-02
-3.208	3.197	-0.100	0.996	-0.079	-0.049	7.321e+00	0.079	0.995	0.002	4.223e+00	0.049	0.002	0.999	-2.271e-02
-3.008	3.197	-0.100	0.990	-0.126	-0.061	6.382e+00	0.124	0.992	0.032	3.650e+00	-0.065	-0.024	0.998	9.603e-03
-2.808	3.197	-0.100	0.988	-0.091	-0.152	6.188e+00	0.092	1.000	0.003	2.672e+00	0.152	-0.003	0.988	-7.845e-01
-2.608	3.197	-0.100	0.966	0.129	-0.224	4.746e+00	-0.130	0.991	0.012	2.775e+00	0.224	0.018	0.974	1.065e-01
-2.407	3.197	-0.100	0.972	-0.233	-0.019	4.555e+00	0.233	0.972	-0.035	2.803e+00	0.027	-0.030	0.999	1.349e-01
-2.207	3.197	-0.100	0.935	-0.353	0.024	5.257e+00	0.353	0.935	0.009	2.456e+00	-0.024	-0.000	0.930	-2.111e-02
-2.007	3.197	-0.100	0.927	-0.376	0.020	5.820e+00	0.375	0.927	0.026	2.215e+00	-0.028	-0.016	0.999	-1.231e-02
-1.807	3.197	-0.100	0.924	-0.382	0.010	6.213e+00	0.382	0.924						

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-1.406	3.998	-0.100	0.881	-0.474	-0.007	7.127e+00	0.474	0.880	0.041	2.113e+00	-0.013	-0.039	0.999	-1.486e-02
-1.206	3.998	-0.100	0.885	-0.466	-0.015	7.190e+00	0.466	0.884	0.043	1.957e+00	-0.007	-0.045	0.999	-1.500e-02
-1.006	3.998	-0.100	0.889	-0.457	-0.023	7.137e+00	0.457	0.888	0.047	1.791e+00	-0.001	-0.052	0.999	-1.636e-02
-0.806	3.998	-0.100	0.895	-0.446	-0.031	6.965e+00	0.447	0.893	0.053	1.620e+00	0.004	-0.061	0.998	-1.916e-02
-0.606	3.998	-0.100	0.901	-0.432	-0.040	6.671e+00	0.434	0.899	0.062	1.450e+00	0.010	-0.073	0.997	-2.385e-02
-0.405	3.998	-0.100	0.909	-0.414	-0.052	6.244e+00	0.417	0.906	0.074	1.287e+00	0.016	-0.089	0.996	-3.133e-02
-0.205	3.998	-0.100	0.918	-0.390	-0.067	5.679e+00	0.395	0.914	0.093	1.136e+00	0.025	-0.112	0.993	-4.229e-02
-0.005	3.998	-0.100	0.931	-0.354	-0.087	4.965e+00	0.363	0.924	0.122	1.006e+00	0.038	-0.144	0.989	-5.635e-02
0.155	3.998	-0.100	0.951	-0.286	-0.118	4.127e+00	0.303	0.940	0.155	8.854e-01	0.067	-0.183	0.981	-1.004e-01
0.395	3.998	-0.100	0.967	-0.125	-0.224	3.314e+00	0.273	0.963	0.207	6.871e-01	0.190	-0.239	0.952	-2.473e-01
0.596	3.998	-0.100	0.831	0.385	-0.402	2.832e+00	-0.238	0.898	0.370	5.156e-01	0.504	-0.212	0.838	-3.558e-01
0.796	3.998	-0.100	0.281	0.932	-0.228	4.591e+00	0.722	-0.049	6.990	1.586e-01	0.632	-0.259	0.687	-3.751e-01
0.996	3.998	-0.100	-0.004	0.998	-0.067	5.541e+00	0.960	0.022	2.279	3.846e-01	-0.280	0.063	0.958	-9.856e-02
1.196	3.998	-0.100	-0.090	0.996	-0.028	6.203e+00	0.992	0.083	0.998	7.053e-01	-0.100	0.020	0.995	-3.484e-02
1.396	3.998	-0.100	-0.104	0.995	-0.013	6.830e+00	0.994	0.104	0.040	8.771e-01	-0.042	0.009	0.999	-2.226e-02
1.597	3.998	-0.100	-0.103	0.995	-0.005	7.360e+00	0.995	0.103	-0.002	9.859e-01	0.001	0.005	1.000	-1.861e-02
1.797	3.998	-0.100	-0.079	0.997	-0.001	7.822e+00	0.996	0.079	-0.035	9.769e-01	0.034	0.004	0.999	-2.052e-02
1.997	3.998	-0.100	-0.033	0.999	-0.003	8.208e+00	0.998	0.032	-0.062	7.754e-01	0.062	0.005	0.998	-2.618e-02
2.197	3.998	-0.100	0.019	1.000	-0.010	8.159e+00	0.993	-0.020	-0.113	5.085e-01	0.113	0.008	0.994	-4.689e-02
2.397	3.998	-0.100	0.024	1.000	-0.019	8.726e+00	0.970	-0.028	-0.241	8.006e-01	0.242	0.013	0.970	-5.160e-02
2.598	3.998	-0.100	-0.123	0.992	-0.014	4.577e+00	0.987	0.120	-0.109	1.339e+00	0.107	0.028	0.994	-5.054e-02
2.798	3.998	-0.100	-0.243	0.970	-0.004	3.813e+00	0.969	0.243	-0.047	1.263e+00	0.044	0.015	0.999	-2.371e-02
2.998	3.998	-0.100	-0.196	0.981	-0.004	3.889e+00	0.980	0.196	-0.009	1.097e+00	-0.010	0.002	1.000	-1.312e-02
3.198	3.998	-0.100	-0.163	0.987	-0.004	4.150e+00	0.985	0.163	-0.050	1.102e+00	-0.050	-0.004	0.999	-4.730e-03
3.398	3.998	-0.100	-0.156	0.988	-0.004	4.392e+00	0.986	0.156	-0.066	1.252e+00	-0.066	-0.006	0.998	-9.257e-04
3.599	3.998	-0.100	-0.161	0.987	-0.004	4.592e+00	0.985	0.161	-0.066	1.484e+00	-0.066	-0.007	0.998	-3.762e-03
3.799	3.998	-0.100	-0.170	0.985	-0.003	4.758e+00	0.984	0.170	-0.061	1.757e+00	-0.061	-0.007	0.998	-4.924e-03
3.999	3.998	-0.100	-0.181	0.983	-0.003	4.899e+00	0.982	0.181	-0.055	2.050e+00	-0.055	-0.007	0.998	-5.294e-03
4.199	3.998	-0.100	-0.193	0.981	-0.003	5.021e+00	0.980	0.193	-0.049	2.351e+00	-0.049	-0.006	0.999	-5.178e-03
4.399	3.998	-0.100	-0.206	0.979	-0.003	5.129e+00	0.978	0.206	-0.043	2.653e+00	-0.043	-0.005	0.999	-4.927e-03
4.600	3.998	-0.100	-0.220	0.976	-0.004	5.225e+00	0.975	0.220	-0.038	2.953e+00	-0.038	-0.005	0.999	-4.602e-03
4.800	3.998	-0.100	-0.236	0.972	-0.004	5.312e+00	0.971	0.236	-0.034	3.246e+00	-0.034	-0.004	0.999	-4.256e-03
5.000	3.998	-0.100	-0.255	0.967	-0.004	5.391e+00	0.966	0.255	-0.031	3.531e+00	-0.031	-0.004	1.000	-3.914e-03
-5.010	4.198	-0.100	0.998	-0.059	-0.003	1.141e+01	0.999	0.998	-0.004	5.561e+00	0.004	0.003	1.000	-4.841e-03
-4.810	4.198	-0.100	0.998	-0.060	-0.005	1.135e+01	0.999	0.998	-0.004	5.561e+00	0.004	0.003	1.000	-6.213e-03
-4.610	4.198	-0.100	0.998	-0.062	-0.005	1.125e+01	0.999	0.998	-0.004	5.561e+00	0.004	0.003	1.000	-8.123e-03
-4.409	4.198	-0.100	0.998	-0.062	-0.011	1.109e+01	0.999	0.998	-0.004	5.561e+00	0.004	0.003	1.000	-1.087e-02
-4.209	4.198	-0.100	0.998	-0.063	-0.016	1.086e+01	0.999	0.998	-0.004	5.561e+00	0.004	0.003	1.000	-1.494e-02
-4.009	4.198	-0.100	0.998	-0.063	-0.022	1.053e+01	0.999	0.998	-0.004	5.561e+00	0.004	0.003	1.000	-2.109e-02
-3.809	4.198	-0.100	0.997	-0.065	-0.030	1.009e+01	0.995	0.998	-0.005	5.468e+00	0.005	0.003	1.000	-3.028e-02
-3.609	4.198	-0.100	0.997	-0.070	-0.042	9.531e+00	0.990	0.998	-0.005	5.350e+00	0.005	0.002	0.999	-4.088e-02
-3.408	4.198	-0.100	0.995	-0.086	-0.055	8.812e+00	0.985	0.996	-0.004	4.054e+00	0.005	-0.001	0.998	-3.015e-02
-3.208	4.198	-0.100	0.992	-0.114	-0.045	7.968e+00	0.984	0.993	-0.002	3.784e+00	0.004	-0.007	0.999	-1.228e-01
-3.008	4.198	-0.100	0.992	-0.134	0.048	7.202e+00	0.983	0.993	-0.003	3.717e+00	-0.003	-0.017	0.999	-1.055e-01
-2.808	4.198	-0.100	0.992	-0.144	-0.119	6.846e+00	-0.034	0.998	-0.001	3.717e+00	0.111	0.005	0.993	-7.093e-01
-2.608	4.198	-0.100	0.976	0.136	-0.171	5.525e+00	-0.137	0.991	0.023	3.654e+00	0.170	0.021	0.985	-1.712e-01
-2.407	4.198	-0.100	0.958	-0.287	-0.010	5.161e+00	0.286	0.958	-0.031	3.453e+00	0.018	0.027	0.999	-1.305e-01
-2.207	4.198	-0.100	0.875	-0.483	0.024	5.763e+00	0.483	0.875	-0.016	3.030e+00	-0.029	-0.002	1.000	-1.311e-02
-2.007	4.198	-0.100	0.855	-0.518	0.019	5.364e+00	0.518	0.855	-0.035	2.720e+00	-0.034	-0.020	0.999	-2.445e-02
-1.807	4.198	-0.100	0.854	-0.520	-0.010	5.022e+00	0.519	0.854	-0.040	2.542e+00	-0.029	-0.029	0.999	-1.742e-02
-1.607	4.198	-0.100	0.858	-0.513	0.001	7.145e+00	0.513	0.858	-0.042	2.394e+00	-0.022	-0.036	0.999	-1.623e-02
-1.406	4.198	-0.100	0.864	-0.504	-0.007	7.345e+00	0.504	0.863	-0.044	2.247e+00	-0.016	-0.041	0.999	-1.528e-02
-1.206	4.198	-0.100	0.869	-0.494	-0.014	7.429e+00	0.494	0.868	-0.047	2.092e+00	-0.011	-0.048	0.998	-1.424e-02
-1.006	4.198	-0.100	0.875	-0.483	-0.021	7.397e+00	0.483	0.874	-0.052	1.930e+00	0.004	-0.056	0.998	-1.682e-02
-0.806	4.198	-0.100	0.882	-0.471	-0.029	7.264e+00	0.471	0.880	-0.059	1.763e+00	-0.002	-0.066	0.998	-1.971e-02
-0.606	4.198	-0.100	0.889	-0.455	-0.039	6.970e+00	0.457	0.887	-0.069	1.595e+00	0.003	-0.079	0.997	-2.456e-02
-0.405	4.198	-0.100	0.899	-0.436	-0.050	6.564e+00	0.439	0.895	-0.084	1.433e+00	0.008	-0.097	0.995	-3.231e-02

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-0.205	4.198	-0.100	0.910	-0.410	-0.064	6.018e+00	0.415	0.904	0.105	1.280e+00	0.015	-0.122	0.992	-4.401e-02
-0.005	4.198	-0.100	0.924	-0.373	-0.083	5.322e+00	0.381	0.914	0.139	1.143e+00	0.024	-0.160	0.987	-6.033e-02
0.195	4.198	-0.100	0.941	-0.310	-0.113	4.474e+00	0.336	0.916	0.219	1.039e+00	0.034	-0.244	0.989	-1.152e-01
0.395	4.198	-0.100	0.952	-0.229	-0.201	3.442e+00	0.296	0.954	0.427	1.191e+00	0.023	-0.288	0.981	-5.062e-01
0.596	4.198	-0.100	0.925	-0.703	0.625	2.700e+00	0.625	0.925	0.702	1.718e+00	0.203	-0.702	0.987	-3.399e-01
0.796	4.198	-0.100	0.910	-0.868	0.477	1.818e+00	0.477	0.913	0.868	1.200e+00	0.151	-0.868	0.985	-2.946e-01
0.996	4.198	-0.100	0.902	-0.992	-0.091	5.093e+00	0.993	0.085	-0.081	1.213e+00	0.072	0.098	0.993	-3.951e-02
1.196	4.198	-0.100	0.866	-0.994	-0.038	6.093e+00	0.993	0.088	0.050	8.568e-01	-0.053	0.032	0.998	-2.729e-02
1.396	4.198	-0.100	0.814	-0.991	-0.017	6.800e+00	0.991	0.017	0.014	9.582e-01	-0.011	0.013	0.999	-2.361e-02
1.597	4.198	-0.100	0.746	-0.997	0.007	7.262e+00	0.991	0.135	-0.014	1.169e+00	0.013	0.009	1.000	-1.912e-02
1.797	4.198	-0.100	0.607	-0.994	-0.004	7.547e+00	0.993	0.107	-0.054	1.394e+00	0.054	0.009	0.999	-2.133e-02
1.997	4.198	-0.100	0.406	-0.999	-0.008	7.732e+00	0.995	0.045	-0.092	1.577e+00	0.092	0.012	0.996	-2.935e-02
2.197	4.198	-0.100	0.009	1.000	-0.019	7.963e+00	0.994	-0.011	-0.112	1.580e+00	0.113	0.018	0.993	-4.842e-02
2.397	4.198	-0.100	0.115	0.990	-0.007	7.948e+00	0.987	0.115	-0.115	1.462e+00	0.113	0.019	0.993	-1.775e-02
2.598	4.198	-0.100	0.378	0.925	0.026	4.816e+00	0.924	0.379	-0.050	1.911e+00	0.056	-0.005	0.998	6.156e-02
2.798	4.198	-0.100	0.185	0.983	0.002	3.526e+00	0.982	0.185	-0.037	1.833e+00	0.037	0.005	0.999	2.571e-02
2.998	4.198	-0.100	0.127	0.992	-0.006	3.800e+00	0.992	0.127	0.006	1.779e+00				

trial 2 output: 71of 81

3.398 4.798 -0.100 -0.292 0.956 -0.007 4.754e+00 0.955 0.292 0.046 1.705e+00 -0.046 -0.007 0.999 -5.672e-04
3.599 4.798 -0.100 -0.305 0.952 -0.006 4.885e+00 0.951 0.305 0.046 1.949e+00 -0.046 -0.008 0.999 -2.477e-03
3.799 4.798 -0.100 -0.319 0.948 -0.006 5.011e+00 0.947 0.319 0.045 2.196e+00 -0.044 -0.008 0.999 -3.436e-03
3.999 4.798 -0.100 -0.333 0.943 -0.006 5.128e+00 0.945 0.333 0.042 2.449e+00 -0.041 -0.008 0.999 -4.853e-03
4.199 4.798 -0.100 -0.348 0.938 -0.006 5.236e+00 0.937 0.348 0.038 2.706e+00 -0.038 -0.008 0.999 -3.962e-03
4.399 4.798 -0.100 -0.364 0.931 -0.006 5.333e+00 0.931 0.364 0.035 2.956e+00 -0.035 -0.007 0.999 -3.901e-03
4.600 4.798 -0.100 -0.383 0.924 -0.006 5.424e+00 0.923 0.383 0.032 3.221e+00 -0.032 -0.007 0.999 -3.747e-03
4.800 4.798 -0.100 -0.404 0.915 -0.006 5.509e+00 0.914 0.404 0.029 3.473e+00 -0.029 -0.006 1.000 -3.548e-03
5.000 4.798 -0.100 -0.428 0.904 -0.006 5.589e+00 0.904 0.428 0.026 3.719e+00 -0.027 -0.006 1.000 -3.468e-03
5.200 4.798 -0.100 -0.454 0.891 -0.006 5.664e+00 0.891 0.454 0.023 3.956e+00 -0.023 -0.006 1.000 -3.396e-03
5.400 4.798 -0.100 -0.482 0.876 -0.006 5.734e+00 0.876 0.482 0.020 4.184e+00 -0.020 -0.006 1.000 -3.332e-03
5.600 4.798 -0.100 -0.512 0.860 -0.006 5.799e+00 0.860 0.512 0.017 4.404e+00 -0.017 -0.006 1.000 -3.274e-03
5.800 4.798 -0.100 -0.544 0.843 -0.006 5.859e+00 0.843 0.544 0.014 4.616e+00 -0.014 -0.006 1.000 -3.221e-03
6.000 4.798 -0.100 -0.578 0.825 -0.006 5.914e+00 0.825 0.578 0.011 4.820e+00 -0.011 -0.006 1.000 -3.171e-03
6.200 4.798 -0.100 -0.614 0.806 -0.006 5.964e+00 0.806 0.614 0.008 5.016e+00 -0.008 -0.006 1.000 -3.124e-03
6.400 4.798 -0.100 -0.652 0.786 -0.006 6.009e+00 0.786 0.652 0.005 5.204e+00 -0.005 -0.006 1.000 -3.079e-03
6.600 4.798 -0.100 -0.692 0.766 -0.006 6.049e+00 0.766 0.692 0.002 5.384e+00 -0.002 -0.006 1.000 -3.036e-03
6.800 4.798 -0.100 -0.734 0.745 -0.006 6.074e+00 0.745 0.734 0.000 5.554e+00 -0.000 -0.006 1.000 -2.994e-03
7.000 4.798 -0.100 -0.778 0.723 -0.006 6.094e+00 0.723 0.778 0.000 5.714e+00 -0.000 -0.006 1.000 -2.954e-03
7.200 4.798 -0.100 -0.824 0.700 -0.006 6.109e+00 0.700 0.824 0.000 5.864e+00 -0.000 -0.006 1.000 -2.914e-03
7.400 4.798 -0.100 -0.872 0.676 -0.006 6.119e+00 0.676 0.872 0.000 6.004e+00 -0.000 -0.006 1.000 -2.874e-03
7.600 4.798 -0.100 -0.922 0.651 -0.006 6.114e+00 0.651 0.922 0.000 6.134e+00 -0.000 -0.006 1.000 -2.834e-03
7.800 4.798 -0.100 -0.974 0.625 -0.006 6.094e+00 0.625 0.974 0.000 6.254e+00 -0.000 -0.006 1.000 -2.794e-03
8.000 4.798 -0.100 -1.028 0.598 -0.006 6.059e+00 0.598 1.028 0.000 6.364e+00 -0.000 -0.006 1.000 -2.754e-03
8.200 4.798 -0.100 -1.084 0.570 -0.006 6.009e+00 0.570 1.084 0.000 6.454e+00 -0.000 -0.006 1.000 -2.714e-03
8.400 4.798 -0.100 -1.142 0.541 -0.006 5.944e+00 0.541 1.142 0.000 6.524e+00 -0.000 -0.006 1.000 -2.674e-03
8.600 4.798 -0.100 -1.202 0.511 -0.006 5.864e+00 0.511 1.202 0.000 6.574e+00 -0.000 -0.006 1.000 -2.634e-03
8.800 4.798 -0.100 -1.264 0.480 -0.006 5.774e+00 0.480 1.264 0.000 6.604e+00 -0.000 -0.006 1.000 -2.594e-03
9.000 4.798 -0.100 -1.328 0.448 -0.006 5.674e+00 0.448 1.328 0.000 6.614e+00 -0.000 -0.006 1.000 -2.554e-03
9.200 4.798 -0.100 -1.394 0.415 -0.006 5.564e+00 0.415 1.394 0.000 6.604e+00 -0.000 -0.006 1.000 -2.514e-03
9.400 4.798 -0.100 -1.462 0.381 -0.006 5.444e+00 0.381 1.462 0.000 6.574e+00 -0.000 -0.006 1.000 -2.474e-03
9.600 4.798 -0.100 -1.532 0.346 -0.006 5.314e+00 0.346 1.532 0.000 6.524e+00 -0.000 -0.006 1.000 -2.434e-03
9.800 4.798 -0.100 -1.604 0.310 -0.006 5.174e+00 0.310 1.604 0.000 6.454e+00 -0.000 -0.006 1.000 -2.394e-03
10.000 4.798 -0.100 -1.678 0.273 -0.006 5.024e+00 0.273 1.678 0.000 6.364e+00 -0.000 -0.006 1.000 -2.354e-03
10.200 4.798 -0.100 -1.754 0.235 -0.006 4.864e+00 0.235 1.754 0.000 6.254e+00 -0.000 -0.006 1.000 -2.314e-03
10.400 4.798 -0.100 -1.832 0.196 -0.006 4.694e+00 0.196 1.832 0.000 6.124e+00 -0.000 -0.006 1.000 -2.274e-03
10.600 4.798 -0.100 -1.912 0.156 -0.006 4.514e+00 0.156 1.912 0.000 5.974e+00 -0.000 -0.006 1.000 -2.234e-03
10.800 4.798 -0.100 -1.994 0.115 -0.006 4.324e+00 0.115 1.994 0.000 5.804e+00 -0.000 -0.006 1.000 -2.194e-03
11.000 4.798 -0.100 -2.078 0.073 -0.006 4.124e+00 0.073 2.078 0.000 5.614e+00 -0.000 -0.006 1.000 -2.154e-03
11.200 4.798 -0.100 -2.164 0.030 -0.006 3.914e+00 0.030 2.164 0.000 5.404e+00 -0.000 -0.006 1.000 -2.114e-03
11.400 4.798 -0.100 -2.252 0.000 -0.006 3.694e+00 0.000 2.252 0.000 5.174e+00 -0.000 -0.006 1.000 -2.074e-03
11.600 4.798 -0.100 -2.342 0.000 -0.006 3.464e+00 0.000 2.342 0.000 4.924e+00 -0.000 -0.006 1.000 -2.034e-03
11.800 4.798 -0.100 -2.434 0.000 -0.006 3.224e+00 0.000 2.434 0.000 4.654e+00 -0.000 -0.006 1.000 -1.994e-03
12.000 4.798 -0.100 -2.528 0.000 -0.006 2.974e+00 0.000 2.528 0.000 4.364e+00 -0.000 -0.006 1.000 -1.954e-03
12.200 4.798 -0.100 -2.624 0.000 -0.006 2.714e+00 0.000 2.624 0.000 4.054e+00 -0.000 -0.006 1.000 -1.914e-03
12.400 4.798 -0.100 -2.722 0.000 -0.006 2.434e+00 0.000 2.722 0.000 3.724e+00 -0.000 -0.006 1.000 -1.874e-03
12.600 4.798 -0.100 -2.822 0.000 -0.006 2.144e+00 0.000 2.822 0.000 3.374e+00 -0.000 -0.006 1.000 -1.834e-03
12.800 4.798 -0.100 -2.924 0.000 -0.006 1.844e+00 0.000 2.924 0.000 3.004e+00 -0.000 -0.006 1.000 -1.794e-03
13.000 4.798 -0.100 -3.028 0.000 -0.006 1.534e+00 0.000 3.028 0.000 2.614e+00 -0.000 -0.006 1.000 -1.754e-03
13.200 4.798 -0.100 -3.134 0.000 -0.006 1.214e+00 0.000 3.134 0.000 2.204e+00 -0.000 -0.006 1.000 -1.714e-03
13.400 4.798 -0.100 -3.242 0.000 -0.006 8.84e+00 0.000 3.242 0.000 1.774e+00 -0.000 -0.006 1.000 -1.674e-03
13.600 4.798 -0.100 -3.352 0.000 -0.006 5.56e+00 0.000 3.352 0.000 1.324e+00 -0.000 -0.006 1.000 -1.634e-03
13.800 4.798 -0.100 -3.464 0.000 -0.006 2.28e+00 0.000 3.464 0.000 7.74e+00 -0.000 -0.006 1.000 -1.594e-03
14.000 4.798 -0.100 -3.578 0.000 -0.006 -0.000 0.000 3.578 0.000 2.28e+00 -0.000 -0.006 1.000 -1.554e-03
14.200 4.798 -0.100 -3.694 0.000 -0.006 -0.000 0.000 3.694 0.000 1.000 -1.514e-03
14.400 4.798 -0.100 -3.812 0.000 -0.006 -0.000 0.000 3.812 0.000 5.56e+00 -0.000 -0.006 1.000 -1.474e-03
14.600 4.798 -0.100 -3.932 0.000 -0.006 -0.000 0.000 3.932 0.000 2.97e+00 -0.000 -0.006 1.000 -1.434e-03
14.800 4.798 -0.100 -4.054 0.000 -0.006 -0.000 0.000 4.054 0.000 1.53e+00 -0.000 -0.006 1.000 -1.394e-03
15.000 4.798 -0.100 -4.178 0.000 -0.006 -0.000 0.000 4.178 0.000 7.74e+00 -0.000 -0.006 1.000 -1.354e-03
15.200 4.798 -0.100 -4.304 0.000 -0.006 -0.000 0.000 4.304 0.000 4.05e+00 -0.000 -0.006 1.000 -1.314e-03
15.400 4.798 -0.100 -4.432 0.000 -0.006 -0.000 0.000 4.432 0.000 2.20e+00 -0.000 -0.006 1.000 -1.274e-03
15.600 4.798 -0.100 -4.562 0.000 -0.006 -0.000 0.000 4.562 0.000 1.000 -1.234e-03
15.800 4.798 -0.100 -4.694 0.000 -0.006 -0.000 0.000 4.694 0.000 5.56e+00 -0.000 -0.006 1.000 -1.194e-03
16.000 4.798 -0.100 -4.828 0.000 -0.006 -0.000 0.000 4.828 0.000 2.97e+00 -0.000 -0.006 1.000 -1.154e-03
16.200 4.798 -0.100 -4.964 0.000 -0.006 -0.000 0.000 4.964 0.000 1.53e+00 -0.000 -0.006 1.000 -1.114e-03
16.400 4.798 -0.100 -5.102 0.000 -0.006 -0.000 0.000 5.102 0.000 7.74e+00 -0.000 -0.006 1.000 -1.074e-03
16.600 4.798 -0.100 -5.242 0.000 -0.006 -0.000 0.000 5.242 0.000 4.05e+00 -0.000 -0.006 1.000 -1.034e-03
16.800 4.798 -0.100 -5.384 0.000 -0.006 -0.000 0.000 5.384 0.000 2.20e+00 -0.000 -0.006 1.000 -9.94e-04
17.000 4.798 -0.100 -5.528 0.000 -0.006 -0.000 0.000 5.528 0.000 1.000 -9.54e-04
17.200 4.798 -0.100 -5.674 0.000 -0.006 -0.000 0.000 5.674 0.000 5.56e+00 -0.000 -0.006 1.000 -9.14e-04
17.400 4.798 -0.100 -5.822 0.000 -0.006 -0.000 0.000 5.822 0.000 2.97e+00 -0.000 -0.006 1.000 -8.74e-04
17.600 4.798 -0.100 -5.972 0.000 -0.006 -0.000 0.000 5.972 0.000 1.53e+00 -0.000 -0.006 1.000 -8.34e-04
17.800 4.798 -0.100 -6.124 0.000 -0.006 -0.000 0.000 6.124 0.000 7.74e+00 -0.000 -0.006 1.000 -7.94e-04
18.000 4.798 -0.100 -6.278 0.000 -0.006 -0.000 0.000 6.278 0.000 4.05e+00 -0.000 -0.006 1.000 -7.54e-04
18.200 4.798 -0.100 -6.434 0.000 -0.006 -0.000 0.000 6.434 0.000 2.20e+00 -0.000 -0.006 1.000 -7.14e-04
18.400 4.798 -0.100 -6.592 0.000 -0.006 -0.000 0.000 6.592 0.000 1.000 -6.74e-04
18.600 4.798 -0.100 -6.752 0.000 -0.006 -0.000 0.000 6.752 0.000 5.56e+00 -0.000 -0.006 1.000 -6.34e-04
18.800 4.798 -0.100 -6.914 0.000 -0.006 -0.000 0.000 6.914 0.000 2.97e+00 -0.000 -0.006 1.000 -5.94e-04
19.000 4.798 -0.100 -7.078 0.000 -0.006 -0.000 0.000 7.078 0.000 1.53e+00 -0.000 -0.006 1.000 -5.54e-04
19.200 4.798 -0.100 -7.244 0.000 -0.006 -0.000 0.000 7.244 0.000 7.74e+00 -0.000 -0.006 1.000 -5.14e-04
19.400 4.798 -0.100 -7.412 0.000 -0.006 -0.000 0.000 7.412 0.000 4.05e+00 -0.000 -0.006 1.000 -4.74e-04
19.600 4.798 -0.100 -7.582 0.000 -0.006 -0.000 0.000 7.582 0.000 2.20e+00 -0.000 -0.006 1.000 -4.34e-04
19.800 4.798 -0.100 -7.754 0.000 -0.006 -0.000 0.000 7.754 0.000 1.000 -3.94e-04
20.000 4.798 -0.100 -7.928 0.000 -0.006 -0.000 0.000 7.928 0.000 5.56e+00 -0.000 -0.006 1.000 -3.54e-04
20.200 4.798 -0.100 -8.104 0.000 -0.006 -0.000 0.000 8.104 0.000 2.97e+00 -0.000 -0.006 1.000 -3.14e-04
20.400 4.798 -0.100 -8.282 0.000 -0.006 -0.000 0.000 8.282 0.000 1.53e+00 -0.000 -0.006 1.000 -2.74e-04
20.600 4.798 -0.100 -8.462 0.000 -0.006 -0.000 0.000 8.462 0.000 7.74e+00 -0.000 -0.006 1.000 -2.34e-04
20.800 4.798 -0.100 -8.644 0.000 -0.006 -0.000 0.000 8.644 0.000 4.05e+00 -0.000 -0.006 1.000 -1.94e-04
21.000 4.798 -0.100 -8.828 0.000 -0.006 -0.000 0.000 8.828 0.000 2.20e+00 -0.000 -0.006 1.000 -1.54e-04
21.200 4.798 -0.100 -9.014 0.000 -0.006 -0.000 0.000 9.014 0.000 1.000 -1.14e-04
21.400 4.798 -0.100 -9.202 0.000 -0.006 -0.000 0.000 9.202 0.000 5.56e+00 -0.000 -0.006 1.000 -7.4e-05
21.600 4.798 -0.100 -9.392 0.000 -0.006 -0.000 0.000 9.392 0.000 2.97e+00 -0.000 -0.006 1.000 -3.4e-05
21.800 4.798 -0.100 -9.584 0.000 -0.006 -0.000 0.000 9.584 0.000 1.53e+00 -0.000 -0.006 1.000 6.6e-06
22.000 4.798 -0.100 -9.778 0.000 -0.006 -0.000 0.000 9.778 0.000 7.74e+00 -0.000 -0.006 1.000 2.6e-06
22.200 4.798 -0.100 -9.974 0.000 -0.006 -0.000 0.000 9.974 0.000 4.05e+00 -0.000 -0.006 1.000 8.6e-07
22.400 4.798 -0.100 -10.172 0.000 -0.006 -0.000 0.000 10.172 0.000 2.20e+00 -0.000 -0.006 1.000 4.6e-07
22.600 4.798 -0.100 -10.372 0.000 -0.006 -0.000 0.000 10.372 0.000 1.000 6.6e-08
22.800 4.798 -0.100 -10.574 0.000 -0.006 -0.000 0.000 10.574 0.000 5.56e+00 -0.000 -0.006 1.000 2.6e-08
23.000 4.798 -0.100 -10.778 0.000 -0.006 -0.000 0.000 10.778 0.000 2.97e+00 -0.000 -0.006 1.000 8.6e-09
23.200 4.798 -0.100 -10.984 0.000 -0.006 -0.000 0.000 10.984 0.000 1.53e+00 -0.000 -0.006 1.000 4.6e-09
23.400 4.798 -0.100 -11.192 0.000 -0.006 -0.000 0.000 11.192 0.000 7.74e+00 -0.000 -0.006 1.000 6.6e-10
23.600 4.798 -0.100 -11.402 0.000 -0.006 -0.000 0.000 11.402 0.000 4.05e+00 -0.000 -0.006 1.000 2.6e-10
23.800 4.798 -0.100 -11.614 0.000 -0.006 -0.000 0.000 11.614 0.000 2.20e+00 -0.000 -0.006 1.000 8.6e-11
24.000 4.798 -0.100 -11.828 0.000 -0.006 -0.000 0.000 11.828 0.000 1.000 4.6e-11
24.200 4.798 -0.100 -12.044 0.000 -0.006 -0.000 0.000 12.044 0.000 5.56e+00 -0.000 -0.006 1.000 6.6e-12
24.400 4.798 -0.100 -12.262 0.000 -0.006 -0.000 0.000 12.262 0.000 2.97e+00 -0.000 -0.006 1.000 2.6e-12
24.600 4.798 -0.100 -12.482 0.000 -0.006 -0.000 0.000 12.482 0.000 1.53e+00 -0.000 -0.006 1.000 8.6e-13
24.800 4.798 -0.100 -12.704 0.000 -0.006 -0.000 0.000 12.704 0.000 7.74e+00 -0.000 -0.006 1.000 4.6e-13
25.000 4.798 -0.100 -12.928 0.000 -0.006 -0.000 0.000 12.928 0.000 4.05e+00 -0.000 -0.006 1.000 6.6e-14
25.200 4.798 -0.100 -13.154 0.000 -0.006 -0.000 0.000 13.154 0.000 2.20e+00 -0.000 -0.006 1.000 2.6e-14
25.400 4.798 -0.100 -13.382 0.000 -0.006 -0.000 0.000 13.382 0.000 1.000 8.6e-15
25.600 4.798 -0.100 -13.612 0.000 -0.006 -0.000 0.000 13.612 0.000 5.56e+00 -0.000 -0.006 1.000 4.6e-15
25.800 4.798 -0.100 -13.844 0.000 -0.006 -0.000 0.000 13.844 0.000 2.97e+00 -0.000 -0.006 1.000 6.6e-16
26.000 4.798 -0.100 -14.078 0.000 -0.006 -0.000 0.000 14.078 0.000 1.53e+00 -0.000 -0.006 1.000 2.6e-16
26.200 4.798 -0.100 -14.314 0.000 -0.006 -0.000 0.000 14.314 0.000 7.74e+00 -0.000 -0.006 1.000 8.6e-17
26.400 4.798 -0.100 -14.552 0.000 -0.006 -0.000 0.000 14.552 0.000 4.05e+00 -0.000 -0.006 1.000 4.6e-17
26.600 4.798 -0.100 -14.792 0.000 -0.006 -0.000 0.000 14.792 0.000 2.20e+00 -0.000 -0.006 1.000 6.6e-18
26.800 4.798 -0.100 -15.034 0.000 -0.006 -0.000 0.000 15.034 0.000 1.000 2.6e-18
27.000 4.798 -0.100 -15.278 0.000 -0.006 -0.000 0.000 15.278 0.000 5.56e+00 -0.000 -0.006 1.000 8.6e-19
27.200 4.798 -0.100 -15.524 0.000 -0.006 -0.000 0.000 15.524 0.000 2.97e+00 -0.000 -0.006 1.000 4.6e-19
27.400 4.798 -0.100 -15.772 0.000 -0.006 -0.000 0.000 15.772 0.000 1.53e+00 -0.000 -0.006 1.000 6.6e-20
27.600 4.798 -0.100 -16.022 0.000 -0.006 -0.000 0.000 16.022 0.000 7.74e+00 -0.000 -0.006 1.000 2.6e-20
27.800 4.798 -0.100 -16.274 0.000 -0.006 -0.000 0.000 16.274 0.000 4.05e+00 -0.000 -0.006 1.000 8.6e-21
28.000 4.798 -0.100 -16.528 0.000 -0.006 -0.000 0.000 16.528 0.000 2.20e+00 -0.000 -0.006 1.000 4.

trial 2 output: 75of 81

trial 2 output: 77 of 81

trial 2 output: 76of 81

trial 2 output: 78 of 8

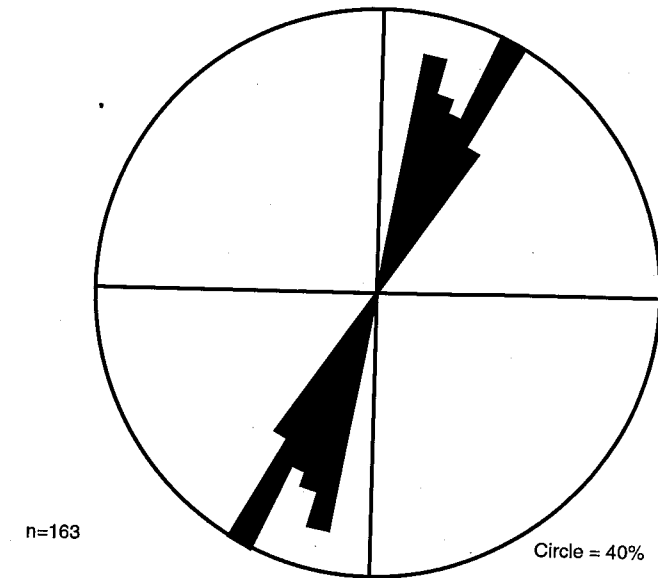
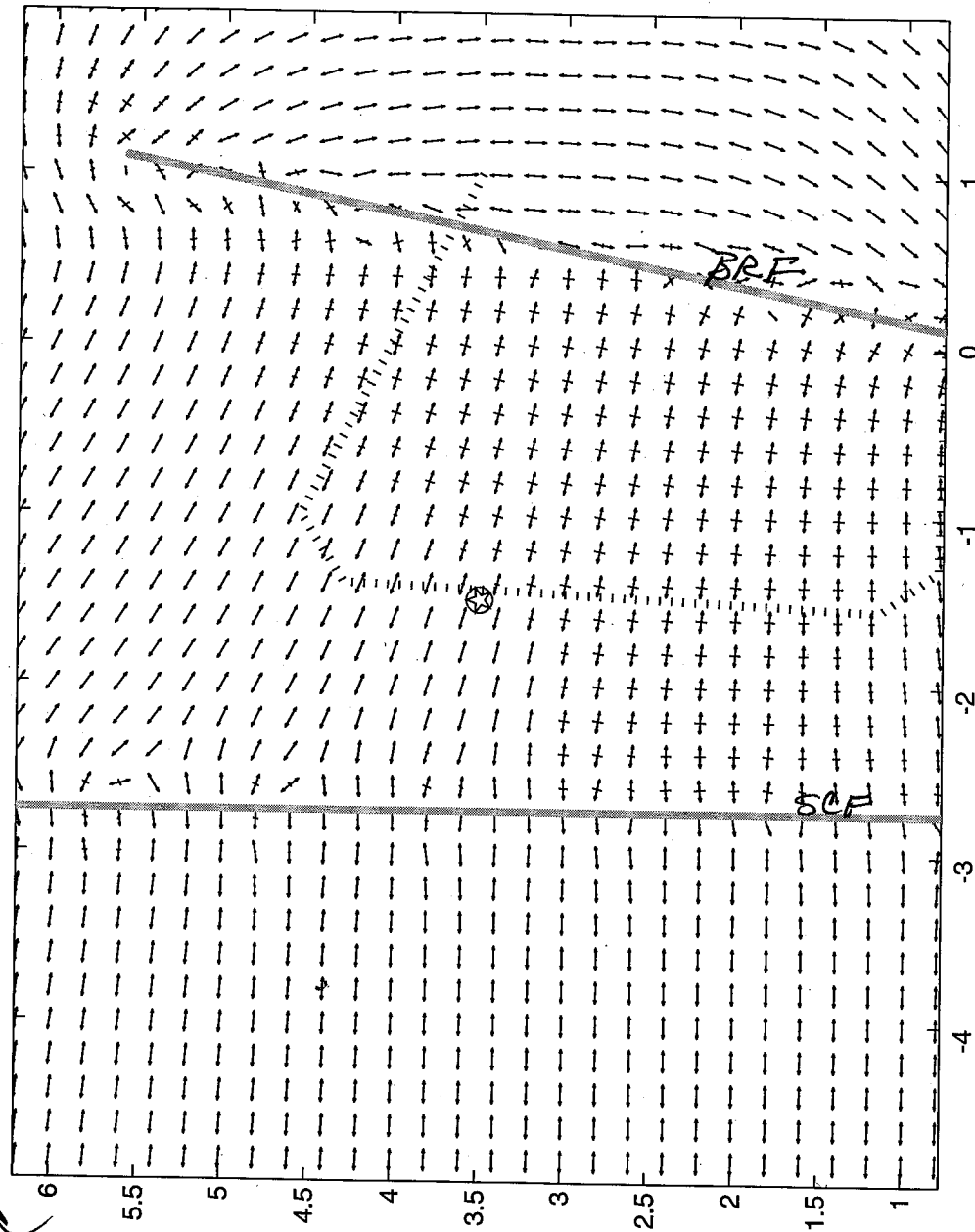
trial 2 output: 79 of 81

2.798	6.600	-0.100	0.315	0.949	-0.014	5.071e+00	0.949	-0.315	0.001	3.961e+00	0.004	0.013	1.000	9.851e-02
2.798	6.600	-0.100	-0.238	0.971	-0.019	4.712e+00	0.971	-0.238	0.027	3.973e+00	-0.030	0.012	0.999	6.458e-03
3.198	6.600	-0.100	-0.472	0.882	-0.021	4.909e+00	0.881	0.472	0.026	3.781e+00	-0.033	0.006	0.999	-7.890e-03
3.398	6.600	-0.100	-0.543	0.840	-0.018	5.120e+00	0.839	0.543	0.024	3.698e+00	-0.030	0.002	1.000	-7.669e-03
3.599	6.600	-0.100	-0.580	0.815	-0.015	5.299e+00	0.814	0.580	0.022	3.691e+00	-0.027	-0.001	1.000	-5.945e-03
3.799	6.600	-0.100	-0.605	0.796	-0.013	5.453e+00	0.796	0.605	0.021	3.730e+00	-0.025	-0.003	1.000	-4.617e-03
3.999	6.600	-0.100	-0.625	0.780	-0.012	5.591e+00	0.780	0.624	0.020	3.798e+00	-0.023	-0.004	1.000	-3.760e-03
4.199	6.600	-0.100	-0.644	0.765	-0.011	5.717e+00	0.765	0.644	0.020	3.885e+00	-0.022	-0.004	1.000	-3.221e-03
4.399	6.600	-0.100	-0.662	0.750	-0.010	5.835e+00	0.750	0.662	0.019	3.987e+00	-0.021	-0.005	1.000	-2.873e-03
4.600	6.600	-0.100	-0.680	0.734	-0.010	5.947e+00	0.733	0.680	0.018	4.097e+00	-0.020	-0.005	1.000	-2.634e-03
4.800	6.600	-0.100	-0.698	0.716	-0.009	6.054e+00	0.716	0.698	0.017	4.213e+00	-0.019	-0.005	1.000	-2.454e-03
5.000	6.600	-0.100	-0.717	0.697	-0.009	6.158e+00	0.697	0.717	0.016	4.333e+00	-0.018	-0.005	1.000	-2.307e-03
-5.010	6.800	-0.100	0.986	-0.167	0.000	1.126e+01	0.167	0.986	0.005	6.290e+00	-0.001	-0.005	1.000	-1.566e-03
-4.810	6.800	-0.100	0.984	-0.179	-0.000	1.128e+01	0.179	0.984	0.007	6.324e+00	-0.001	-0.007	1.000	-2.142e-03
-4.610	6.800	-0.100	0.982	-0.191	-0.001	1.128e+01	0.191	0.982	0.010	6.366e+00	-0.001	-0.010	1.000	-3.029e-03
-4.409	6.800	-0.100	0.980	-0.201	-0.002	1.127e+01	0.201	0.979	0.014	6.423e+00	-0.001	-0.014	1.000	-4.462e-03
-4.209	6.800	-0.100	0.978	-0.209	-0.003	1.123e+01	0.209	0.978	0.020	6.498e+00	-0.001	-0.020	1.000	-6.886e-03
-4.009	6.800	-0.100	0.977	-0.212	-0.005	1.117e+01	0.212	0.977	0.028	6.603e+00	-0.001	-0.028	1.000	-1.121e-02
-3.809	6.800	-0.100	0.979	-0.204	-0.007	1.107e+01	0.204	0.978	0.040	6.752e+00	-0.001	-0.041	0.999	-1.938e-02
-3.609	6.800	-0.100	0.985	-0.172	-0.009	1.095e+01	0.172	0.983	0.060	6.966e+00	-0.001	-0.060	0.998	-3.585e-02
-3.408	6.800	-0.100	0.997	-0.078	-0.005	1.087e+01	0.078	0.992	0.094	7.268e+00	-0.002	-0.095	0.996	-7.164e-02
-3.208	6.800	-0.100	0.986	0.163	0.031	1.134e+01	-0.165	0.973	0.160	7.553e+00	-0.004	-0.163	0.987	-1.803e-01
-3.008	6.800	-0.100	0.895	0.425	0.134	1.529e+01	-0.445	0.835	0.323	7.323e+00	0.026	-0.349	0.937	-1.201e+00
-2.808	6.800	-0.100	0.914	0.186	0.360	5.494e+01	-0.299	0.910	0.287	2.405e+01	-0.274	-0.370	0.888	-1.657e+01
-2.608	6.800	-0.100	0.879	-0.470	0.080	2.346e+01	-0.310	-0.436	0.845	2.169e+00	0.362	0.768	0.529	-5.411e+00
-2.407	6.800	-0.100	0.842	-0.539	0.022	1.671e+01	0.409	0.612	-0.676	5.283e-01	0.351	0.578	0.736	-3.472e-01
-2.207	6.800	-0.100	0.847	-0.532	0.014	1.449e+01	0.532	0.847	-0.010	1.988e+00	-0.006	0.015	1.000	2.182e-03
-2.007	6.800	-0.100	0.858	-0.514	0.010	1.346e+01	0.513	0.858	0.022	3.029e+00	-0.020	-0.014	1.000	-8.964e-03
-1.807	6.800	-0.100	0.868	-0.497	0.008	1.287e+01	0.496	0.868	0.024	3.702e+00	-0.019	-0.017	1.000	-1.912e-02
-1.607	6.800	-0.100	0.875	-0.483	0.005	1.248e+01	0.483	0.875	0.023	4.205e+00	-0.017	-0.017	1.000	-9.358e-03
-1.406	6.800	-0.100	0.881	-0.473	0.005	1.218e+01	0.472	0.881	0.022	4.630e+00	-0.015	-0.017	1.000	-8.694e-03
-1.206	6.800	-0.100	0.886	-0.463	0.005	1.193e+01	0.463	0.886	0.022	5.022e+00	-0.014	-0.017	1.000	-8.419e-03
-1.006	6.800	-0.100	0.892	-0.453	0.005	1.171e+01	0.453	0.891	0.021	5.403e+00	-0.014	-0.016	1.000	-8.493e-03
-0.806	6.800	-0.100	0.898	-0.440	0.006	1.151e+01	0.449	0.898	0.019	5.789e+00	-0.014	-0.015	1.000	-8.634e-03
-0.606	6.800	-0.100	0.906	-0.423	0.007	1.133e+01	0.423	0.906	0.018	6.185e+00	-0.013	-0.013	1.000	-9.354e-03
-0.405	6.800	-0.100	0.918	-0.396	0.008	1.115e+01	0.396	0.918	0.015	6.592e+00	-0.013	-0.011	1.000	-9.963e-03
-0.205	6.800	-0.100	0.935	-0.355	0.009	1.100e+01	0.355	0.935	0.011	6.996e+00	-0.013	-0.007	1.000	-1.055e-02
-0.005	6.800	-0.100	0.958	-0.287	0.011	1.087e+01	0.287	0.958	0.005	7.366e+00	-0.012	-0.002	1.000	-1.100e-02
0.195	6.800	-0.100	0.983	-0.185	0.011	1.081e+01	0.185	0.983	0.003	7.633e+00	-0.010	0.005	1.000	-1.119e-02
0.395	6.800	-0.100	0.998	-0.055	0.008	1.086e+01	0.055	0.998	-0.013	7.690e+00	-0.007	0.013	1.000	-1.111e-02
0.596	6.800	-0.100	0.998	0.059	0.001	1.101e+01	-0.059	0.998	-0.022	7.450e+00	-0.003	0.022	1.000	-1.093e-02
0.796	6.800	-0.100	0.993	0.120	-0.007	1.118e+01	-0.121	0.992	-0.028	6.916e+00	0.004	0.029	1.000	-1.111e-02
0.996	6.800	-0.100	0.991	0.132	-0.016	1.123e+01	-0.132	0.991	-0.032	6.175e+00	0.011	0.034	0.999	-1.238e-02
1.196	6.800	-0.100	0.984	0.111	0.024	1.103e+01	-0.112	0.993	-0.033	5.347e+00	0.020	0.035	0.999	-1.564e-02
1.396	6.800	-0.100	0.996	0.078	-0.032	1.055e+01	-0.079	0.996	-0.032	4.537e+00	0.029	0.034	0.999	-2.195e-02
1.597	6.800	-0.100	0.998	0.047	-0.041	9.801e+00	-0.049	0.998	-0.030	3.795e+00	0.040	0.032	0.999	-3.228e-02
1.797	6.800	-0.100	0.998	0.032	-0.055	8.814e+00	-0.034	0.999	-0.032	3.115e+00	0.054	0.034	0.998	-4.335e-02
1.997	6.800	-0.100	0.997	0.040	-0.070	7.625e+00	-0.043	0.998	-0.043	2.458e+00	0.068	0.046	0.997	-9.340e-03
2.197	6.800	-0.100	0.998	0.046	-0.044	6.275e+00	-0.050	0.995	-0.082	1.792e+00	0.040	0.084	0.996	-1.799e-01
2.397	6.800	-0.100	0.983	-0.162	-0.085	5.440e+00	0.160	0.987	-0.032	1.717e+00	0.089	0.018	0.996	-5.404e-01
2.598	6.800	-0.100	-0.440	0.893	0.093	4.701e+00	0.866	0.449	-0.221	3.003e+00	0.239	0.016	0.971	-1.717e-02
2.798	6.800	-0.100	-0.040	0.999	-0.006	5.020e+00	0.999	-0.006	0.000	2.216e+00	-0.000	0.006	1.000	1.081e-01
2.998	6.800	-0.100	-0.150	0.989	-0.015	4.917e+00	0.988	0.150	0.039	3.615e+00	-0.041	0.009	0.999	4.939e-03
3.198	6.800	-0.100	-0.374	0.927	-0.019	4.975e+00	0.927	0.375	0.033	3.768e+00	-0.038	0.005	0.999	-9.909e-03
3.398	6.800	-0.100	-0.510	0.860	-0.018	5.143e+00	0.860	0.510	0.026	3.800e+00	-0.032	0.002	0.999	-8.876e-03
3.598	6.800	-0.100	-0.577	0.817	-0.015	5.317e+00	0.817	0.577	0.023	3.822e+00	-0.027	-0.001	1.000	-6.126e-03
3.799	6.800	-0.100	-0.615	0.789	-0.013	5.477e+00	0.788	0.615	0.021	3.863e+00	-0.025	-0.002	1.000	-4.979e-03

trial 2 output: 80 of 81

3.999	6.800	-0.100	-0.641	0.767	-0.012	5.622e+00	0.767	0.641	0.020	3.924e+00	-0.023	-0.003	1.000	-3.947e-03
4.199	6.800	-0.100	-0.662	0.749	-0.011	5.756e+00	0.749	0.662	0.019	4.000e+00	-0.020	-0.005	1.000	-2.893e-03
4.399	6.800	-0.100	-0.681	0.732	-0.010	5.880e+00	0.732	0.681	0.018	4.089e+00	-0.020	-0.005	1.000	-2.893e-03
4.600	6.800	-0.100	-0.700	0.714	-0.010	5.998e+00	0.714	0.700	0.017	4.187e+00	-0.019	-0.005	1.000	-2.616e-03
4.800	6.800	-0.100	-0.718	-0.696	0.009	6.110e+00	0.696	0.718	0.016	4.292e+00	-0.018	-0.005	1.000	-2.415e-03
5.000	6.800	-0.100	-0.736	-0.676	0.009	6.218e+00	0.676	0.736	0.015	4.400e+00	-0.017	-0.005	1.000	-2.256e-03
-5.010	7.000	-0.100	0.986	-0.169	0.001	1.123e+01	0.169	0.986	0.005	6.400e+00	-0.002	-0.004	1.000	-1.300e-03
-4.810	7.000	-0.100	0.984	-0.181	0.001	1.126e+01	0.181	0.984	0.007	6.465e+00	-0.002	-0.007	1.000	-1.781e-03
-4.610	7.000	-0.100	0.981	-0.192	0.001	1.128e+01	0.192	0.981	0.010	6.538e+00	-0.002	-0.009	1.000	-2.516e-03
-4.409	7.000	-0.100	0.979	-0.202	0.000	1.129e+01	0.202	0.979	0.013	6.632e+00	-0.003	-0.013	1.000	-3.687e-03
-4.209	7.000	-0.100	0.978	-0.209	-0.000	1.130e+01	0.209	0.978	0.018	6.756e+00	-0.004	-0.018	1.000	-5.637e-03
-4.009	7.000	-0.100	0.977	-0.212	-0.000	1.131e+01	0.212	0.977	0.025	6.920e+00	-0.005	-0.024	1.000	-9.048e-03
-3.809	7.000	-0.100	0.979	-0.205	0.001	1.135e+01	0.205	0.978	0.034	7.147e+00	-0.008	-0.033	0.999	-1.535e-02
-3.609	7.000	-0.100	0.983	-0.181	0.004	1.146e+01	0.181	0.982	0.048	7.469e+00	-0.012	-0.046	0.999	-2.778e-02
-3.408	7.000	-0.100	0.992	-0.129	0.013	1.181e+01	0.129	0.990	0.088	7.947e+00	-0.022	-0.065	0.998	-5.442e-02
-3.208	7.000	-0.100	0.998	-0.052	0.038	1.278e+01	0.049	0.995	0.091	8.767e+00	-0.042	-0.089	0.995	-1.215e-01
-3.008	7.000	-0.100	0.995	0.020	0.094	1.498e+01	0.029	0.996	0.090	1.07				

Trial 2, fine grid output



Rose diagram of predicted fractures orientation in the vicinity of Live Yucca Ridge, revised trial 2.

Fig 10 c REV 5/18/01

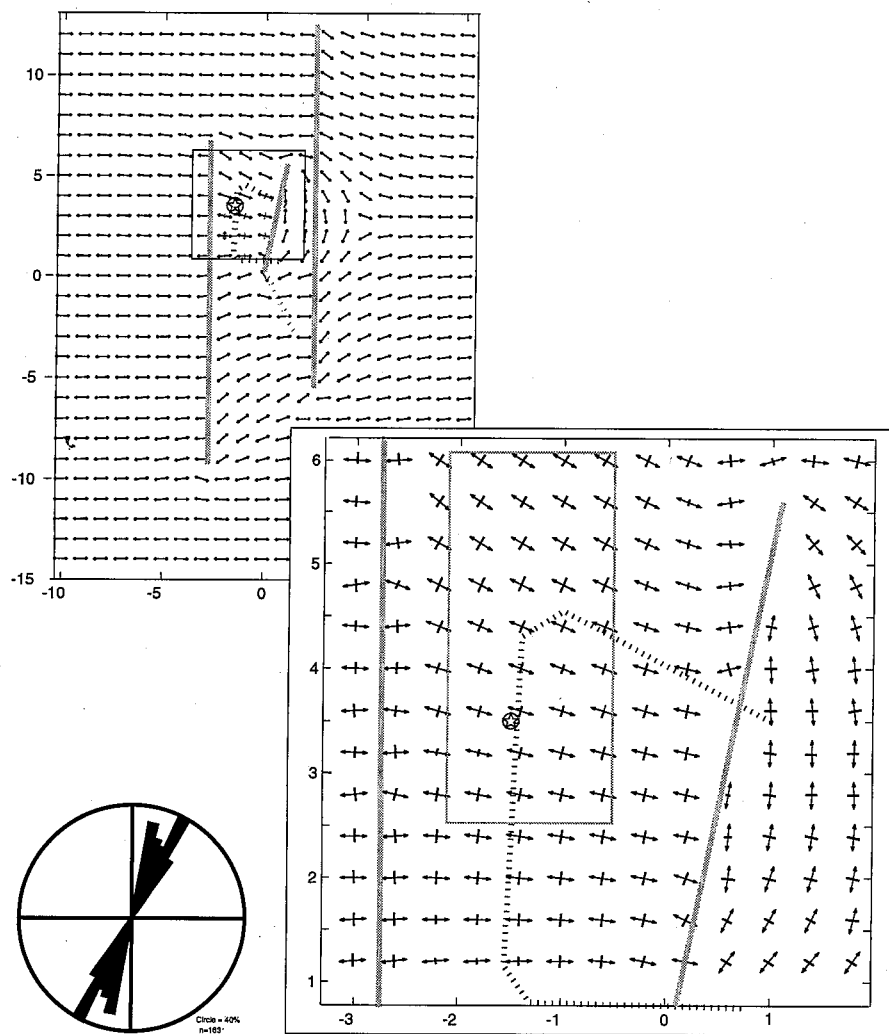


Figure 10. Dunne et al. (revised 07/02/01)

Figure 10. Modeled stress trajectories and joint orientations for the case of E-W tension = 10 MPa and N-S tension = 4 MPa. Model results for 100 m depth. All symbols as in Fig. 9. (A) Regional view. Greater deflection is observed in the footwall of both the SCF and PCF, especially near fault terminations. (B) Details of the stress perturbation in the region around Live Yucca Ridge. (C) Rose diagrams of expected joint orientations in the vicinity of Live Yucca Ridge. Range is from 008° to 037° with a mode between 030° and 035°.

H. Lawrence McKague
GLGP Element Manager

WLM:K
10/31/03

Date _____

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*****
**      SECTION 5: OBJECTS/ELEMENTS/VERTICES/POINTS      **
*****
v      pcf_001      global      2.400  9.500  0.000
v      pcf_002      global      2.550  8.500  0.000
v      pcf_003      global      2.700  7.500  0.000
v      pcf_004      global      2.850  6.500  0.000
v      pcf_005      global      3.000  5.500  0.000
v      pcf_006      global      2.830  4.500  0.000
v      pcf_007      global      2.670  3.500  0.000
v      pcf_008      global      2.500  2.500  0.000
v      pcf_009      global      2.250  1.500  0.000
v      pcf_010      global      2.000  0.500  0.000
```

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v	pcf_011a	global	1.750	-0.500	0.000
v	pcf_012	global	1.875	-1.500	0.000
v	pcf_013	global	2.000	-2.500	0.000
v	pcf_014	global	1.500	-3.500	0.000
v	pcf_015	global	1.000	-4.500	0.000
v	pcf_016	global	0.500	-5.500	0.000
v	pcf_017	global	0.000	-6.500	0.000
v	pcf_101	global	2.058	9.452	-0.940
v	pcf_102	global	2.208	8.452	-0.940
v	pcf_103	global	2.358	7.452	-0.940
v	pcf_104	global	2.508	6.452	-0.940
v	pcf_105	global	2.658	5.452	-0.940
v	pcf_106	global	2.488	4.560	-0.940
v	pcf_107	global	2.328	3.560	-0.940
v	pcf_108	global	2.158	2.560	-0.940
v	pcf_109	global	1.908	1.592	-0.940
v	pcf_110	global	1.658	0.592	-0.940
v	pcf_111b	global	1.408	-0.554	-0.940
v	pcf_112	global	1.533	-1.554	-0.940
v	pcf_113	global	1.658	-2.554	-0.940
v	pcf_114	global	1.158	-3.326	-0.940
v	pcf_115	global	0.658	-4.326	-0.940
v	pcf_116	global	0.158	-5.326	-0.940
v	pcf_117	global	-0.342	-6.326	-0.940
v	pcf_201	global	1.716	9.404	-1.879
v	pcf_202	global	1.866	8.404	-1.879
v	pcf_203	global	2.016	7.404	-1.879
v	pcf_204	global	2.166	6.404	-1.879
v	pcf_205	global	2.316	5.404	-1.879
v	pcf_206	global	2.146	4.621	-1.879
v	pcf_207	global	1.986	3.621	-1.879
v	pcf_208	global	1.816	2.621	-1.879
v	pcf_209	global	1.566	1.683	-1.879
v	pcf_210	global	1.316	0.683	-1.879
v	pcf_211a	global	1.066	-0.317	-1.879
v	pcf_211b	global	1.066	-0.608	-1.879
v	pcf_212	global	1.191	-1.608	-1.879
v	pcf_213	global	1.000	-2.608	-1.879
v	pcf_214	global	0.816	-3.151	-1.879
v	pcf_215	global	0.316	-4.151	-1.879
v	pcf_216	global	-0.184	-5.151	-1.879
v	pcf_217	global	-0.684	-6.151	-1.879
v	pcf_301	global	1.374	9.356	-2.819
v	pcf_302	global	1.524	8.356	-2.819
v	pcf_303	global	1.674	7.356	-2.819
v	pcf_304	global	1.824	6.356	-2.819
v	pcf_305	global	1.974	5.356	-2.819
v	pcf_306	global	1.804	4.681	-2.819
v	pcf_307	global	1.644	3.681	-2.819
v	pcf_308	global	1.474	2.681	-2.819
v	pcf_309	global	1.224	1.775	-2.819
v	pcf_310	global	0.974	0.775	-2.819
v	pcf_311a	global	0.724	-0.225	-2.819
v	pcf_311b	global	0.724	-0.663	-2.819
v	pcf_312	global	0.849	-1.663	-2.819
v	pcf_314	global	0.474	-2.977	-2.819
v	pcf_315	global	-0.026	-3.977	-2.819

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v	pcf_316	global	-0.526	-4.977	-2.819			
v	pcf_317	global	-1.026	-5.977	-2.819			
v	pcf_401	global	1.032	9.308	-3.759			
v	pcf_402	global	1.182	8.308	-3.759			
v	pcf_403	global	1.332	7.308	-3.759			
v	pcf_404	global	1.482	6.308	-3.759			
v	pcf_405	global	1.632	5.308	-3.759			
v	pcf_406	global	1.462	4.741	-3.759			
v	pcf_407	global	1.302	3.741	-3.759			
v	pcf_408	global	1.132	2.741	-3.759			
v	pcf_409	global	0.882	1.867	-3.759			
v	pcf_410	global	0.632	0.867	-3.759			
v	pcf_411a	global	0.382	-0.133	-3.759			
v	pcf_411b	global	0.382	-0.717	-3.759			
v	pcf_412	global	0.507	-1.717	-3.759			
v	pcf_414	global	0.132	-2.803	-3.759			
v	pcf_415	global	-0.368	-3.803	-3.759			
v	pcf_416	global	-0.868	-4.803	-3.759			
v	pcf_417	global	-1.368	-5.803	-3.759			
v	pcf_501	global	0.690	9.260	-4.698			
v	pcf_502	global	0.840	8.260	-4.698			
v	pcf_503	global	0.990	7.260	-4.698			
v	pcf_504	global	1.140	6.260	-4.698			
v	pcf_505	global	1.290	5.260	-4.698			
v	pcf_506	global	1.120	4.802	-4.698			
v	pcf_507	global	0.960	3.802	-4.698			
v	pcf_508	global	0.790	2.802	-4.698			
v	pcf_509	global	0.540	1.958	-4.698			
v	pcf_510	global	0.290	0.958	-4.698			
v	pcf_511a	global	0.040	-0.042	-4.698			
v	pcf_511b	global	0.040	-0.771	-4.698			
v	pcf_512	global	0.165	-1.771	-4.698			
v	pcf_514	global	-0.210	-2.629	-4.698			
v	pcf_515	global	-0.710	-3.629	-4.698			
v	pcf_516	global	-1.210	-4.629	-4.698			
v	pcf_517	global	-1.710	-5.629	-4.698			
o "pcf" b global								
e	3	elocal	tth	0	0	0	pcf_001	
e	3	elocal	ttt	0	0	-6.442	pcf_001	
e	3	elocal	tth	0	0	0	pcf_002	
e	3	elocal	tth	0	0	0	pcf_002	
e	3	elocal	tth	0	0	0	pcf_003	
e	3	elocal	tth	0	0	0	pcf_003	
e	3	elocal	tth	0	0	0	pcf_004	
e	3	elocal	tth	0	0	0	pcf_004	
e	3	elocal	tth	0	0	0	pcf_005	
e	3	elocal	tth	0	0	0	pcf_005	
e	3	elocal	tth	0	0	0	pcf_006	
e	3	elocal	tth	0	0	0	pcf_006	
e	3	elocal	tth	0	0	0	pcf_007	
e	3	elocal	tth	0	0	0	pcf_007	
e	3	elocal	tth	0	0	0	pcf_008	
e	3	elocal	tth	0	0	0	pcf_008	
e	3	elocal	tth	0	0	0	pcf_009	
e	3	elocal	tth	0	0	0	pcf_009	
e	3	elocal	tth	0	0	0	pcf_010	
e	3	elocal	tth	0	0	0	pcf_010	

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e	3	elocal	tth	0	0	0	pcf_401	pcf_501	pcf_502
e	3	elocal	tth	0	0	0	pcf_401	pcf_502	pcf_402
e	3	elocal	tth	0	0	0	pcf_402	pcf_502	pcf_503
e	3	elocal	tth	0	0	0	pcf_402	pcf_503	pcf_403
e	3	elocal	tth	0	0	0	pcf_403	pcf_503	pcf_504
e	3	elocal	tth	0	0	0	pcf_403	pcf_504	pcf_404
e	3	elocal	tth	0	0	0	pcf_404	pcf_504	pcf_505
e	3	elocal	tth	0	0	0	pcf_404	pcf_505	pcf_405
e	3	elocal	tth	0	0	0	pcf_405	pcf_505	pcf_506
e	3	elocal	tth	0	0	0	pcf_405	pcf_506	pcf_406
e	3	elocal	tth	0	0	0	pcf_406	pcf_506	pcf_507
e	3	elocal	tth	0	0	0	pcf_406	pcf_507	pcf_407
e	3	elocal	tth	0	0	0	pcf_407	pcf_507	pcf_508
e	3	elocal	tth	0	0	0	pcf_407	pcf_508	pcf_408
e	3	elocal	tth	0	0	0	pcf_408	pcf_508	pcf_509
e	3	elocal	tth	0	0	0	pcf_408	pcf_509	pcf_409
e	3	elocal	tth	0	0	0	pcf_409	pcf_509	pcf_510
e	3	elocal	tth	0	0	0	pcf_409	pcf_510	pcf_410
e	3	elocal	tth	0	0	0	pcf_410	pcf_510	pcf_511a
e	3	elocal	tth	0	0	0	pcf_410	pcf_511a	pcf_411a
e	3	elocal	tth	0	0	0	pcf_411a	pcf_511a	pcf_511b
e	3	elocal	tth	0	0	0	pcf_411a	pcf_511b	pcf_411b
e	3	elocal	tth	0	0	0	pcf_411b	pcf_511b	pcf_512
e	3	elocal	tth	0	0	0	pcf_411b	pcf_512	pcf_412
e	3	elocal	tth	0	0	0	pcf_412	pcf_512	pcf_514
e	3	elocal	tth	0	0	0	pcf_412	pcf_514	pcf_414
e	3	elocal	tth	0	0	0	pcf_414	pcf_514	pcf_515
e	3	elocal	tth	0	0	0	pcf_414	pcf_515	pcf_415
e	3	elocal	tth	0	0	0	pcf_415	pcf_515	pcf_516
e	3	elocal	tth	0	0	0	pcf_415	pcf_516	pcf_416
e	3	elocal	tth	0	0	0	pcf_416	pcf_516	pcf_517
e	3	elocal	tth	0	0	0	pcf_416	pcf_517	pcf_417

v	brf_003	global	1.000	5.500	0.000
v	brf_004	global	1.000	4.500	0.000
v	brf_005	global	0.850	3.500	0.000
v	brf_006	global	0.710	2.500	0.000
v	brf_007	global	0.570	1.500	0.000
v	brf_008	global	0.500	1.000	0.000
v	brf_009b	global	0.010	0.010	0.000
v	brf_010b	global	0.010	-0.750	0.000
v	brf_011	global	0.500	-1.375	0.000
v	brf_012	global	1.000	-2.000	0.000
v	brf_103	global	0.658	5.500	-0.940
v	brf_104	global	0.658	4.500	-0.940
v	brf_105	global	0.508	3.548	-0.940
v	brf_106	global	0.368	2.548	-0.940
v	brf_107	global	0.228	1.548	-0.940
v	brf_108	global	0.158	1.182	-0.940
v	brf_109a	global	-0.332	0.192	-0.940
v	brf_109b	global	-0.332	0.010	-0.940
v	brf_110a	global	-0.332	-0.750	-0.940
v	brf_110b	global	-0.332	-1.017	-0.940
v	brf_111	global	0.158	-1.642	-0.940
v	brf_112	global	0.658	-2.267	-0.940
v	brf_203	global	0.316	5.500	-1.879
v	brf_204	global	0.316	4.500	-1.879

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v	brf_205	global	0.166	3.596	-1.879
v	brf_206	global	0.026	2.596	-1.879
v	brf_207	global	-0.114	1.596	-1.879
v	brf_208	global	-0.184	1.364	-1.879
v	brf_209a	global	-0.674	0.374	-1.879
v	brf_209b	global	-0.674	0.010	-1.879
v	brf_210a	global	-0.674	-0.750	-1.879
v	brf_210b	global	-0.674	-1.284	-1.879
v	brf_211	global	-0.184	-1.909	-1.879
v	brf_212	global	0.316	-2.534	-1.879
v	brf_303	global	-0.026	5.500	-2.819
v	brf_304	global	-0.026	4.500	-2.819
v	brf_305	global	-0.176	3.644	-2.819
v	brf_306	global	-0.316	2.644	-2.819
v	brf_308	global	-0.526	1.546	-2.819
v	brf_309a	global	-1.016	0.556	-2.819
v	brf_309b	global	-1.016	0.010	-2.819
v	brf_310a	global	-1.016	-0.750	-2.819
v	brf_310b	global	-1.016	-1.552	-2.819
v	brf_311	global	-0.526	-2.177	-2.819
v	brf_312	global	-0.026	-2.802	-2.819
v	brf_403	global	-0.368	5.500	-3.759
v	brf_404	global	-0.368	4.500	-3.759
v	brf_405	global	-0.518	3.692	-3.759
v	brf_406	global	-0.658	2.692	-3.759
v	brf_408	global	-0.868	1.727	-3.759
v	brf_409a	global	-1.358	0.737	-3.759
v	brf_409b	global	-1.358	0.010	-3.759
v	brf_410a	global	-1.358	-0.750	-3.759
v	brf_410b	global	-1.358	-1.819	-3.759
v	brf_411	global	-0.868	-2.444	-3.759
v	brf_412	global	-0.368	-3.069	-3.759
v	brf_503	global	-0.710	5.500	-4.698
v	brf_504	global	-0.710	4.500	-4.698
v	brf_505	global	-0.860	3.740	-4.698
v	brf_506	global	-1.000	2.740	-4.698
v	brf_508	global	-1.210	1.909	-4.698
v	brf_509a	global	-1.700	0.919	-4.698
v	brf_509b	global	-1.700	0.010	-4.698
v	brf_510a	global	-1.700	-0.750	-4.698
v	brf_510b	global	-1.700	-2.086	-4.698
v	brf_511	global	-1.210	-2.711	-4.698
v	brf_512	global	-0.710	-3.336	-4.698

o "brf" t global

*row 1

e	3	elocal	tth	0	0	0	brf_003	brf_103	brf_104
e	3	elocal	tth	0	0	0	brf_003	brf_104	brf_004
e	3	elocal	tth	0	0	0	brf_004	brf_104	brf_105
e	3	elocal	tth	0	0	0	brf_004	brf_105	brf_005
e	3	elocal	tth	0	0	0	brf_005	brf_105	brf_106
e	3	elocal	tth	0	0	0	brf_005	brf_106	brf_006
e	3	elocal	tth	0	0	0	brf_006	brf_106	brf_107
e	3	elocal	tth	0	0	0	brf_006	brf_107	brf_007
e	3	elocal	tth	0	0	0	brf_007	brf_107	brf_108
e	3	elocal	tth	0	0	0	brf_007	brf_108	brf_008
e	3	elocal	tth	0	0	0	brf_008	brf_108	brf_109a
e	3	elocal	tth	0	0	0	brf_008	brf_109a	brf_009b

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e	3	elocal	tth	0	0	0	brf_009b	brf_109a	brf_109b
e	3	elocal	tth	0	0	0	brf_009b	brf_109b	brf_110a
e	3	elocal	tth	0	0	0	brf_009b	brf_110a	brf_010b
e	3	elocal	tth	0	0	0	brf_010b	brf_110a	brf_110b
e	3	elocal	tth	0	0	0	brf_010b	brf_110b	brf_111
e	3	elocal	tth	0	0	0	brf_010b	brf_111	brf_011
e	3	elocal	tth	0	0	0	brf_011	brf_111	brf_112
e	3	elocal	tth	0	0	0	brf_011	brf_112	brf_012
*row 2									
e	3	elocal	tth	0	0	0	brf_103	brf_203	brf_204
e	3	elocal	tth	0	0	0	brf_103	brf_204	brf_104
e	3	elocal	tth	0	0	0	brf_104	brf_204	brf_205
e	3	elocal	tth	0	0	0	brf_104	brf_205	brf_105
e	3	elocal	tth	0	0	0	brf_105	brf_205	brf_206
e	3	elocal	tth	0	0	0	brf_105	brf_206	brf_106
e	3	elocal	tth	0	0	0	brf_106	brf_206	brf_207
e	3	elocal	tth	0	0	0	brf_106	brf_207	brf_107
e	3	elocal	tth	0	0	0	brf_107	brf_207	brf_208
e	3	elocal	tth	0	0	0	brf_107	brf_208	brf_108
e	3	elocal	tth	0	0	0	brf_108	brf_208	brf_209a
e	3	elocal	tth	0	0	0	brf_108	brf_209a	brf_109a
e	3	elocal	tth	0	0	0	brf_109a	brf_209a	brf_209b
e	3	elocal	tth	0	0	0	brf_109a	brf_209b	brf_109b
e	3	elocal	tth	0	0	0	brf_109b	brf_209b	brf_210a
e	3	elocal	tth	0	0	0	brf_109b	brf_210a	brf_110a
e	3	elocal	tth	0	0	0	brf_110a	brf_210a	brf_210b
e	3	elocal	tth	0	0	0	brf_110a	brf_210b	brf_110b
e	3	elocal	tth	0	0	0	brf_110b	brf_210b	brf_211
e	3	elocal	tth	0	0	0	brf_110b	brf_211	brf_111
e	3	elocal	tth	0	0	0	brf_111	brf_211	brf_212
e	3	elocal	tth	0	0	0	brf_111	brf_212	brf_112
*row 3									
e	3	elocal	tth	0	0	0	brf_203	brf_303	brf_304
e	3	elocal	tth	0	0	0	brf_203	brf_304	brf_204
e	3	elocal	tth	0	0	0	brf_204	brf_304	brf_305
e	3	elocal	tth	0	0	0	brf_204	brf_305	brf_205
e	3	elocal	tth	0	0	0	brf_205	brf_305	brf_306
e	3	elocal	tth	0	0	0	brf_205	brf_306	brf_206
e	3	elocal	tth	0	0	0	brf_206	brf_306	brf_308
e	3	elocal	tth	0	0	0	brf_206	brf_308	brf_207
e	3	elocal	tth	0	0	0	brf_207	brf_308	brf_208
e	3	elocal	tth	0	0	0	brf_208	brf_308	brf_309a
e	3	elocal	tth	0	0	0	brf_208	brf_309a	brf_209a
e	3	elocal	tth	0	0	0	brf_209a	brf_309a	brf_309b
e	3	elocal	tth	0	0	0	brf_209a	brf_309b	brf_209b
e	3	elocal	tth	0	0	0	brf_209b	brf_309b	brf_310a
e	3	elocal	tth	0	0	0	brf_209b	brf_310a	brf_210a
e	3	elocal	tth	0	0	0	brf_210a	brf_310a	brf_310b
e	3	elocal	tth	0	0	0	brf_210a	brf_310b	brf_210b
e	3	elocal	tth	0	0	0	brf_210b	brf_310b	brf_311
e	3	elocal	tth	0	0	0	brf_210b	brf_311	brf_211
e	3	elocal	tth	0	0	0	brf_211	brf_311	brf_312
e	3	elocal	tth	0	0	0	brf_211	brf_312	brf_212
*row 4									
e	3	elocal	tth	0	0	0	brf_303	brf_403	brf_404
e	3	elocal	tth	0	0	0	brf_303	brf_404	brf_304
e	3	elocal	tth	0	0	0	brf_304	brf_404	brf_405

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e	3	elocal	tth	0	0	0	brf_304	brf_405	brf_305
e	3	elocal	tth	0	0	0	brf_305	brf_405	brf_406
e	3	elocal	tth	0	0	0	brf_305	brf_406	brf_306
e	3	elocal	tth	0	0	0	brf_306	brf_406	brf_408
e	3	elocal	tth	0	0	0	brf_306	brf_408	brf_308
e	3	elocal	tth	0	0	0	brf_308	brf_408	brf_409a
e	3	elocal	tth	0	0	0	brf_308	brf_409a	brf_309a
e	3	elocal	tth	0	0	0	brf_309a	brf_409a	brf_409b
e	3	elocal	tth	0	0	0	brf_309a	brf_409b	brf_309b
e	3	elocal	tth	0	0	0	brf_309b	brf_409b	brf_410a
e	3	elocal	tth	0	0	0	brf_309b	brf_410a	brf_310a
e	3	elocal	tth	0	0	0	brf_310a	brf_410a	brf_410b
e	3	elocal	tth	0	0	0	brf_310a	brf_410b	brf_310b
e	3	elocal	tth	0	0	0	brf_310b	brf_410b	brf_411
e	3	elocal	tth	0	0	0	brf_310b	brf_411	brf_311
e	3	elocal	tth	0	0	0	brf_311	brf_411	brf_412
e	3	elocal	tth	0	0	0	brf_311	brf_412	brf_312
*row 5									
e	3	elocal	tth	0	0	0	brf_403	brf_503	brf_504
e	3	elocal	tth	0	0	0	brf_403	brf_504	brf_404
e	3	elocal	tth	0	0	0	brf_404	brf_504	brf_505
e	3	elocal	tth	0	0	0	brf_404	brf_505	brf_405
e	3	elocal	tth	0	0	0	brf_405	brf_505	brf_506
e	3	elocal	tth	0	0	0	brf_405	brf_506	brf_406
e	3	elocal	tth	0	0	0	brf_406	brf_506	brf_508
e	3	elocal	tth	0	0	0	brf_406	brf_508	brf_408
e	3	elocal	tth	0	0	0	brf_408	brf_508	brf_509a
e	3	elocal	tth	0	0	0	brf_408	brf_509a	brf_409a
e	3	elocal	tth	0	0	0	brf_409a	brf_509a	brf_509b
e	3	elocal	tth	0	0	0	brf_409a	brf_509b	brf_409b
e	3	elocal	tth	0	0	0	brf_409b	brf_509b	brf_510a
e	3	elocal	tth	0	0	0	brf_409b	brf_510a	brf_410a
e	3	elocal	tth	0	0	0	brf_410a	brf_510a	brf_510b
e	3	elocal	tth	0	0	0	brf_410a	brf_510b	brf_410b
e	3	elocal	tth	0	0	0	brf_410b	brf_510b	brf_511
e	3	elocal	tth	0	0	0	brf_410b	brf_511	brf_411
e	3	elocal	tth	0	0	0	brf_411	brf_511	brf_512
e	3	elocal	tth	0	0	0	brf_411	brf_512	brf_412

v	scf_000	global	-2.300	7.000	0.000
v	scf_001	global	-2.500	6.000	0.000
v	scf_002b	global	-2.700	5.000	0.000
v	scf_003	global	-2.700	4.000	0.000
v	scf_004	global	-2.700	3.000	0.000
v	scf_005b	global	-3.100	2.200	0.000
v	scf_006	global	-3.000	1.500	0.000
v	scf_007	global	-3.000	0.500	0.000
v	scf_008	global	-3.000	-0.500	0.000
v	scf_009	global	-3.000	-1.000	0.000
v	scf_010	global	-3.250	-2.000	0.000
v	scf_011	global	-3.500	-3.000	0.000
v	scf_012	global	-4.000	-3.500	0.000
v	scf_013	global	-4.500	-4.000	0.000
v	scf_014b	global	-5.000	-4.500	0.000

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v	scf_015	global	-5.140	-5.000	0.000
v	scf_016	global	-5.430	-6.000	0.000
v	scf_017	global	-5.710	-7.000	0.000
v	scf_018	global	-6.000	-8.000	0.000
v	scf_100	global	-2.642	7.066	-0.940
v	scf_101	global	-2.842	6.066	-0.940
v	scf_102b	global	-3.042	5.000	-0.940
v	scf_103	global	-3.042	4.000	-0.940
v	scf_104	global	-3.042	3.000	-0.940
v	scf_105a	global	-3.442	2.367	-0.940
v	scf_105b	global	-3.442	2.152	-0.940
v	scf_106	global	-3.342	1.500	-0.940
v	scf_107	global	-3.342	0.500	-0.940
v	scf_108	global	-3.342	-0.500	-0.940
v	scf_109	global	-3.342	-1.000	-0.940
v	scf_110	global	-3.592	-1.915	-0.940
v	scf_111	global	-3.842	-2.915	-0.940
v	scf_112	global	-4.342	-3.181	-0.940
v	scf_113	global	-4.842	-3.681	-0.940
v	scf_114a	global	-5.342	-4.181	-0.940
v	scf_114b	global	-5.342	-4.395	-0.940
v	scf_115	global	-5.482	-4.895	-0.940
v	scf_116	global	-5.772	-5.895	-0.940
v	scf_117	global	-6.052	-6.895	-0.940
v	scf_118	global	-6.342	-7.895	-0.940
v	scf_200	global	-2.984	7.133	-1.879
v	scf_201	global	-3.184	6.133	-1.879
v	scf_202a	global	-3.384	5.133	-1.879
v	scf_202b	global	-3.384	5.000	-1.879
v	scf_203	global	-3.384	4.000	-1.879
v	scf_204	global	-3.384	3.000	-1.879
v	scf_205a	global	-3.784	2.534	-1.879
v	scf_205b	global	-3.784	2.104	-1.879
v	scf_206	global	-3.684	1.500	-1.879
v	scf_207	global	-3.684	0.500	-1.879
v	scf_208	global	-3.684	-0.500	-1.879
v	scf_209	global	-3.684	-1.000	-1.879
v	scf_210	global	-3.934	-1.829	-1.879
v	scf_211	global	-4.184	-2.829	-1.879
v	scf_212	global	-4.684	-2.862	-1.879
v	scf_213	global	-5.184	-3.362	-1.879
v	scf_214a	global	-5.684	-3.862	-1.879
v	scf_214b	global	-5.684	-4.291	-1.879
v	scf_215	global	-5.824	-4.791	-1.879
v	scf_216	global	-6.114	-5.791	-1.879
v	scf_217	global	-6.394	-6.791	-1.879
v	scf_218	global	-6.684	-7.791	-1.879
v	scf_300	global	-3.326	7.199	-2.819
v	scf_301	global	-3.526	6.199	-2.819
v	scf_302a	global	-3.726	5.199	-2.819
v	scf_302b	global	-3.726	5.000	-2.819
v	scf_303	global	-3.726	4.000	-2.819
v	scf_304	global	-3.726	3.000	-2.819
v	scf_305a	global	-4.126	2.700	-2.819
v	scf_305b	global	-4.126	2.056	-2.819
v	scf_306	global	-4.026	1.500	-2.819
v	scf_307	global	-4.026	0.500	-2.819

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v	scf_308	global	-4.026	-0.500	-2.819
v	scf_309	global	-4.026	-1.000	-2.819
v	scf_310	global	-4.276	-1.744	-2.819
v	scf_312	global	-5.026	-2.543	-2.819
v	scf_313	global	-5.526	-3.043	-2.819
v	scf_314a	global	-6.026	-3.543	-2.819
v	scf_314b	global	-6.026	-4.186	-2.819
v	scf_315	global	-6.166	-4.686	-2.819
v	scf_316	global	-6.456	-5.686	-2.819
v	scf_317	global	-6.736	-6.686	-2.819
v	scf_318	global	-7.026	-7.686	-2.819
v	scf_400	global	-3.668	7.266	-3.759
v	scf_401	global	-3.868	6.266	-3.759
v	scf_402a	global	-4.068	5.266	-3.759
v	scf_402b	global	-4.068	5.000	-3.759
v	scf_403	global	-4.068	4.000	-3.759
v	scf_404	global	-4.068	3.000	-3.759
v	scf_405a	global	-4.468	2.867	-3.759
v	scf_405b	global	-4.468	2.008	-3.759
v	scf_406	global	-4.368	1.500	-3.759
v	scf_407	global	-4.368	0.500	-3.759
v	scf_408	global	-4.368	-0.500	-3.759
v	scf_409	global	-4.368	-1.000	-3.759
v	scf_410	global	-4.618	-1.659	-3.759
v	scf_412	global	-5.368	-2.224	-3.759
v	scf_413	global	-5.868	-2.724	-3.759
v	scf_414a	global	-6.368	-3.224	-3.759
v	scf_414b	global	-6.368	-4.082	-3.759
v	scf_415	global	-6.508	-4.582	-3.759
v	scf_416	global	-6.798	-5.582	-3.759
v	scf_417	global	-7.078	-6.582	-3.759
v	scf_418	global	-7.368	-7.582	-3.759
v	scf_500	global	-4.010	7.332	-4.698
v	scf_501	global	-4.210	6.332	-4.698
v	scf_502a	global	-4.410	5.332	-4.698
v	scf_502b	global	-4.410	5.000	-4.698
v	scf_503	global	-4.410	4.000	-4.698
v	scf_505a	global	-4.810	3.034	-4.698
v	scf_505b	global	-4.810	1.960	-4.698
v	scf_506	global	-4.710	1.500	-4.698
v	scf_507	global	-4.710	0.500	-4.698
v	scf_508	global	-4.710	-0.500	-4.698
v	scf_509	global	-4.710	-1.000	-4.698
v	scf_510	global	-4.960	-1.574	-4.698
v	scf_512	global	-5.710	-1.905	-4.698
v	scf_513	global	-6.210	-2.405	-4.698
v	scf_514a	global	-6.710	-2.905	-4.698
v	scf_514b	global	-6.710	-3.977	-4.698
v	scf_515	global	-6.850	-4.477	-4.698
v	scf_516	global	-7.140	-5.477	-4.698
v	scf_517	global	-7.420	-6.477	-4.698
v	scf_518	global	-7.710	-7.477	-4.698

o "scf" t global
*row 1
e 3 elocal ttb 0 0 0 scf_000 scf_100 scf_101
e 3 elocal ttt 0 0 -6.442 scf_000 scf_101 scf_001

e 3 elocal ttb 0 0 0 scf_001 scf_101 scf_102b
 e 3 elocal ttb 0 0 -6.442 scf_001 scf_102b scf_002b
 e 3 elocal ttb 0 0 0 scf_002b scf_102b scf_103
 e 3 elocal ttb 0 0 -6.442 scf_002b scf_103 scf_003
 e 3 elocal ttb 0 0 0 scf_003 scf_103 scf_104
 e 3 elocal ttb 0 0 -6.442 scf_003 scf_104 scf_004
 e 3 elocal ttb 0 0 0 scf_004 scf_104 scf_105a
 e 3 elocal ttb 0 0 0 scf_004 scf_105a scf_005b
 e 3 elocal ttb 0 0 -12.90 scf_005b scf_105a scf_105b
 e 3 elocal ttb 0 0 0 scf_005b scf_105b scf_106
 e 3 elocal ttb 0 0 -6.442 scf_005b scf_106 scf_006
 e 3 elocal ttb 0 0 0 scf_006 scf_106 scf_107
 e 3 elocal ttb 0 0 -6.442 scf_006 scf_107 scf_007
 e 3 elocal ttb 0 0 0 scf_007 scf_107 scf_108
 e 3 elocal ttb 0 0 -6.442 scf_007 scf_108 scf_008
 e 3 elocal ttb 0 0 0 scf_008 scf_108 scf_109
 e 3 elocal ttb 0 0 -6.442 scf_008 scf_109 scf_009
 e 3 elocal ttb 0 0 0 scf_009 scf_109 scf_110
 e 3 elocal ttb 0 0 -6.442 scf_009 scf_110 scf_010
 e 3 elocal ttb 0 0 0 scf_010 scf_110 scf_111
 e 3 elocal ttb 0 0 -6.442 scf_010 scf_111 scf_011
 e 3 elocal ttb 0 0 0 scf_011 scf_111 scf_112
 e 3 elocal ttb 0 0 0 scf_011 scf_112 scf_012
 e 3 elocal ttb 0 0 0 scf_012 scf_112 scf_113
 e 3 elocal ttb 0 0 0 scf_012 scf_113 scf_013
 e 3 elocal ttb 0 0 0 scf_013 scf_113 scf_114a
 e 3 elocal ttb 0 0 0 scf_013 scf_114a scf_014b
 e 3 elocal ttb 0 0 -12.90 scf_014b scf_114a scf_114b
 e 3 elocal ttb 0 0 0 scf_014b scf_114b scf_115
 e 3 elocal ttb 0 0 -6.442 scf_014b scf_115 scf_015
 e 3 elocal ttb 0 0 0 scf_015 scf_115 scf_116
 e 3 elocal ttb 0 0 -6.442 scf_015 scf_116 scf_016
 e 3 elocal ttb 0 0 0 scf_016 scf_116 scf_117
 e 3 elocal ttb 0 0 -6.442 scf_016 scf_117 scf_017
 e 3 elocal ttb 0 0 0 scf_017 scf_117 scf_118
 e 3 elocal ttb 0 0 -6.442 scf_017 scf_118 scf_018
 *row 2 ? ? ?
 e 3 elocal ttb 0 0 0 scf_100 scf_200 scf_201
 e 3 elocal ttb 0 0 0 scf_100 scf_201 scf_101
 e 3 elocal ttb 0 0 0 scf_101 scf_201 scf_202a
 e 3 elocal ttb 0 0 0 scf_101 scf_202a scf_102b
 e 3 elocal ttb 0 0 0 scf_102b scf_202a scf_202b
 e 3 elocal ttb 0 0 0 scf_102b scf_202b scf_203
 e 3 elocal ttb 0 0 0 scf_102b scf_203 scf_103
 e 3 elocal ttb 0 0 0 scf_103 scf_203 scf_204
 e 3 elocal ttb 0 0 0 scf_103 scf_204 scf_104
 e 3 elocal ttb 0 0 0 scf_104 scf_204 scf_205a
 e 3 elocal ttb 0 0 0 scf_104 scf_205a scf_105a
 e 3 elocal ttb 0 0 0 scf_105a scf_205a scf_205b
 e 3 elocal ttb 0 0 0 scf_105a scf_205b scf_105b
 e 3 elocal ttb 0 0 0 scf_105b scf_205b scf_206
 e 3 elocal ttb 0 0 0 scf_105b scf_206 scf_106
 e 3 elocal ttb 0 0 0 scf_106 scf_206 scf_207
 e 3 elocal ttb 0 0 0 scf_106 scf_207 scf_107
 e 3 elocal ttb 0 0 0 scf_107 scf_207 scf_208
 e 3 elocal ttb 0 0 0 scf_107 scf_208 scf_108
 e 3 elocal ttb 0 0 0 scf_108 scf_208 scf_209

e 3 elocal ttb 0 0 0 scf_108 scf_209 scf_109
 e 3 elocal ttb 0 0 0 scf_109 scf_209 scf_210
 e 3 elocal ttb 0 0 0 scf_109 scf_210 scf_110
 e 3 elocal ttb 0 0 0 scf_110 scf_210 scf_211
 e 3 elocal ttb 0 0 0 scf_110 scf_211 scf_111
 e 3 elocal ttb 0 0 0 scf_111 scf_211 scf_212
 e 3 elocal ttb 0 0 0 scf_111 scf_212 scf_112
 e 3 elocal ttb 0 0 0 scf_112 scf_212 scf_213
 e 3 elocal ttb 0 0 0 scf_112 scf_213 scf_113
 e 3 elocal ttb 0 0 0 scf_113 scf_213 scf_214a
 e 3 elocal ttb 0 0 0 scf_113 scf_214a scf_114a
 e 3 elocal ttb 0 0 0 scf_114a scf_214a scf_214b
 e 3 elocal ttb 0 0 0 scf_114a scf_214b scf_114b
 e 3 elocal ttb 0 0 0 scf_114b scf_214b scf_215
 e 3 elocal ttb 0 0 0 scf_114b scf_215 scf_115
 e 3 elocal ttb 0 0 0 scf_115 scf_215 scf_216
 e 3 elocal ttb 0 0 0 scf_115 scf_216 scf_116
 e 3 elocal ttb 0 0 0 scf_116 scf_216 scf_217
 e 3 elocal ttb 0 0 0 scf_116 scf_217 scf_117
 e 3 elocal ttb 0 0 0 scf_117 scf_217 scf_218
 e 3 elocal ttb 0 0 0 scf_117 scf_218 scf_118
 *row 3 ? ? ?
 e 3 elocal ttb 0 0 0 scf_200 scf_300 scf_301
 e 3 elocal ttb 0 0 0 scf_200 scf_301 scf_201
 e 3 elocal ttb 0 0 0 scf_201 scf_301 scf_302a
 e 3 elocal ttb 0 0 0 scf_201 scf_302a scf_202a
 e 3 elocal ttb 0 0 0 scf_202a scf_302a scf_302b
 e 3 elocal ttb 0 0 0 scf_202a scf_302b scf_202b
 e 3 elocal ttb 0 0 0 scf_202b scf_302b scf_303
 e 3 elocal ttb 0 0 0 scf_202b scf_303 scf_203
 e 3 elocal ttb 0 0 0 scf_203 scf_303 scf_304
 e 3 elocal ttb 0 0 0 scf_203 scf_304 scf_204
 e 3 elocal ttb 0 0 0 scf_204 scf_304 scf_305a
 e 3 elocal ttb 0 0 0 scf_204 scf_305a scf_205a
 e 3 elocal ttb 0 0 0 scf_205a scf_305a scf_305b
 e 3 elocal ttb 0 0 0 scf_205a scf_305b scf_205b
 e 3 elocal ttb 0 0 0 scf_205b scf_305b scf_306
 e 3 elocal ttb 0 0 0 scf_205b scf_306 scf_206
 e 3 elocal ttb 0 0 0 scf_206 scf_306 scf_307
 e 3 elocal ttb 0 0 0 scf_206 scf_307 scf_207
 e 3 elocal ttb 0 0 0 scf_207 scf_307 scf_308
 e 3 elocal ttb 0 0 0 scf_207 scf_308 scf_208
 e 3 elocal ttb 0 0 0 scf_208 scf_308 scf_309
 e 3 elocal ttb 0 0 0 scf_208 scf_309 scf_209
 e 3 elocal ttb 0 0 0 scf_209 scf_309 scf_310
 e 3 elocal ttb 0 0 0 scf_209 scf_310 scf_210
 e 3 elocal ttb 0 0 0 scf_210 scf_310 scf_312
 e 3 elocal ttb 0 0 0 scf_210 scf_312 scf_211
 e 3 elocal ttb 0 0 0 scf_211 scf_312 scf_212
 e 3 elocal ttb 0 0 0 scf_212 scf_312 scf_313
 e 3 elocal ttb 0 0 0 scf_212 scf_313 scf_213
 e 3 elocal ttb 0 0 0 scf_213 scf_313 scf_314a
 e 3 elocal ttb 0 0 0 scf_213 scf_314a scf_214a
 e 3 elocal ttb 0 0 0 scf_214a scf_314a scf_314b
 e 3 elocal ttb 0 0 0 scf_214a scf_314b scf_214b
 e 3 elocal ttb 0 0 0 scf_214b scf_314b scf_315
 e 3 elocal ttb 0 0 0 scf_214b scf_315 scf_215

scf

e	3	elocal	tth	0	0	0	scf_215	scf_315	scf_316
e	3	elocal	tth	0	0	0	scf_215	scf_316	scf_216
e	3	elocal	tth	0	0	0	scf_216	scf_316	scf_317
e	3	elocal	tth	0	0	0	scf_216	scf_317	scf_217
e	3	elocal	tth	0	0	0	scf_217	scf_317	scf_318
e	3	elocal	tth	0	0	0	scf_217	scf_318	scf_218
e	3	elocal	tth	0	0	0	?	?	?
*row 4									
e	3	elocal	tth	0	0	0	scf_300	scf_400	scf_401
e	3	elocal	tth	0	0	0	scf_300	scf_401	scf_301
e	3	elocal	tth	0	0	0	scf_301	scf_401	scf_402a
e	3	elocal	tth	0	0	0	scf_301	scf_402a	scf_302a
e	3	elocal	tth	0	0	0	scf_302a	scf_402a	scf_402b
e	3	elocal	tth	0	0	0	scf_302a	scf_402b	scf_302b
e	3	elocal	tth	0	0	0	scf_302b	scf_402b	scf_403
e	3	elocal	tth	0	0	0	scf_302b	scf_403	scf_303
e	3	elocal	tth	0	0	0	scf_303	scf_403	scf_404
e	3	elocal	tth	0	0	0	scf_303	scf_404	scf_304
e	3	elocal	tth	0	0	0	scf_304	scf_404	scf_405a
e	3	elocal	tth	0	0	0	scf_304	scf_405a	scf_305a
e	3	elocal	tth	0	0	0	scf_305a	scf_405a	scf_405b
e	3	elocal	tth	0	0	0	scf_305a	scf_405b	scf_305b
e	3	elocal	tth	0	0	0	scf_305b	scf_405b	scf_406
e	3	elocal	tth	0	0	0	scf_305b	scf_406	scf_306
e	3	elocal	tth	0	0	0	scf_306	scf_406	scf_407
e	3	elocal	tth	0	0	0	scf_306	scf_407	scf_307
e	3	elocal	tth	0	0	0	scf_307	scf_407	scf_408
e	3	elocal	tth	0	0	0	scf_307	scf_408	scf_308
e	3	elocal	tth	0	0	0	scf_308	scf_408	scf_409
e	3	elocal	tth	0	0	0	scf_308	scf_409	scf_309
e	3	elocal	tth	0	0	0	scf_309	scf_409	scf_410
e	3	elocal	tth	0	0	0	scf_309	scf_410	scf_310
e	3	elocal	tth	0	0	0	scf_310	scf_410	scf_412
e	3	elocal	tth	0	0	0	scf_310	scf_412	scf_312
e	3	elocal	tth	0	0	0	scf_312	scf_412	scf_413
e	3	elocal	tth	0	0	0	scf_312	scf_413	scf_313
e	3	elocal	tth	0	0	0	scf_313	scf_413	scf_414a
e	3	elocal	tth	0	0	0	scf_313	scf_414a	scf_314a
e	3	elocal	tth	0	0	0	scf_314a	scf_414a	scf_414b
e	3	elocal	tth	0	0	0	scf_314a	scf_414b	scf_314b
e	3	elocal	tth	0	0	0	scf_314b	scf_414b	scf_415
e	3	elocal	tth	0	0	0	scf_314b	scf_415	scf_315
e	3	elocal	tth	0	0	0	scf_315	scf_415	scf_416
e	3	elocal	tth	0	0	0	scf_315	scf_416	scf_316
e	3	elocal	tth	0	0	0	scf_316	scf_416	scf_417
e	3	elocal	tth	0	0	0	scf_316	scf_417	scf_317
e	3	elocal	tth	0	0	0	scf_317	scf_417	scf_418
e	3	elocal	tth	0	0	0	scf_317	scf_418	scf_318
e	3	elocal	tth	0	0	0	?	?	?
*row 5									
e	3	elocal	tth	0	0	0	scf_400	scf_500	scf_501
e	3	elocal	tth	0	0	0	scf_400	scf_501	scf_401
e	3	elocal	tth	0	0	0	scf_401	scf_501	scf_502a
e	3	elocal	tth	0	0	0	scf_401	scf_502a	scf_402a
e	3	elocal	tth	0	0	0	scf_402a	scf_502a	scf_502b
e	3	elocal	tth	0	0	0	scf_402a	scf_502b	scf_402b
e	3	elocal	tth	0	0	0	scf_402a	scf_502b	scf_503
e	3	elocal	tth	0	0	0	scf_402b	scf_503	scf_403
e	3	elocal	tth	0	0	0	scf_402b	scf_503	scf_505a
e	3	elocal	tth	0	0	0	scf_403	scf_503	

scf

e	3	elocal	tth	0	0	0	scf_403	scf_505a	scf_404
e	3	elocal	tth	0	0	0	scf_404	scf_505a	scf_405a
e	3	elocal	tth	0	0	0	scf_405a	scf_505a	scf_505b
e	3	elocal	tth	0	0	0	scf_405a	scf_505b	scf_405b
e	3	elocal	tth	0	0	0	scf_405b	scf_505b	scf_506
e	3	elocal	tth	0	0	0	scf_405b	scf_506	scf_406
e	3	elocal	tth	0	0	0	scf_406	scf_506	scf_507
e	3	elocal	tth	0	0	0	scf_406	scf_507	scf_407
e	3	elocal	tth	0	0	0	scf_407	scf_507	scf_508
e	3	elocal	tth	0	0	0	scf_407	scf_508	scf_408
e	3	elocal	tth	0	0	0	scf_408	scf_508	scf_509
e	3	elocal	tth	0	0	0	scf_408	scf_509	scf_409
e	3	elocal	tth	0	0	0	scf_409	scf_509	scf_510
e	3	elocal	tth	0	0	0	scf_409	scf_510	scf_410
e	3	elocal	tth	0	0	0	scf_410	scf_510	scf_512
e	3	elocal	tth	0	0	0	scf_410	scf_512	scf_412
e	3	elocal	tth	0	0	0	scf_412	scf_512	scf_513
e	3	elocal	tth	0	0	0	scf_412	scf_513	scf_413
e	3	elocal	tth	0	0	0	scf_413	scf_513	scf_514a
e	3	elocal	tth	0	0	0	scf_413	scf_514a	scf_414a
e	3	elocal	tth	0	0	0	scf_414a	scf_514a	scf_514b
e	3	elocal	tth	0	0	0	scf_414a	scf_514b	scf_414b
e	3	elocal	tth	0	0	0	scf_414b	scf_514b	scf_515
e	3	elocal	tth	0	0	0	scf_414b	scf_515	scf_415
e	3	elocal	tth	0	0	0	scf_415	scf_515	scf_516
e	3	elocal	tth	0	0	0	scf_415	scf_516	scf_416
e	3	elocal	tth	0	0	0	scf_416	scf_516	scf_517
e	3	elocal	tth	0	0	0	scf_416	scf_517	scf_417
e	3	elocal	tth	0	0	0	scf_417	scf_517	scf_518
e	3	elocal	tth	0	0	0	scf_417	scf_518	scf_418

irf

v	irf_001	global	-2.3	-2	0	
v	irf_002	global	-2.3	-3	0	
v	irf_003	global	-2.3	-4	0	
v	irf_004	global	-2.3	-5	0	
v	irf_005	global	-2.3	-6	0	
v	irf_006	global	-2.3	-7	0	
v	irf_007	global	-2.3	-8	0	
v	irf_008	global	-2.3	-9	0	
v	irf_101	global	-2.64202	-2	-0.93969	
v	irf_102	global	-2.64202	-3	-0.93969	
v	irf_103	global	-2.64202	-4	-0.93969	
v	irf_104	global	-2.64202	-5	-0.93969	
v	irf_105	global	-2.64202	-6	-0.93969	
v	irf_106	global	-2.64202	-7	-0.93969	
v	irf_107	global	-2.64202	-8	-0.93969	
v	irf_108	global	-2.64202	-9	-0.93969	
v	irf_201	global	-2.98404	-2	-1.87939	
v	irf_202	global	-2.98404	-3	-1.87939	
v	irf_203	global	-2.98404	-4	-1.87939	
v	irf_204	global	-2.98404	-5	-1.87939	
v	irf_205	global	-2.98404	-6	-1.87939	
v	irf_206	global	-2.98404	-7	-1.87939	
v	irf_207	global	-2.98404	-8	-1.87939	
v	irf_208	global	-2.98404	-9	-1.87939	
v	irf_301	global	-3.32606	-2	-2.81908	

irf
v irf_302 global -3.32606 -3 -2.81908
v irf_303 global -3.32606 -4 -2.81908
v irf_304 global -3.32606 -5 -2.81908
v irf_305 global -3.32606 -6 -2.81908
v irf_306 global -3.32606 -7 -2.81908
v irf_307 global -3.32606 -8 -2.81908
v irf_308 global -3.32606 -9 -2.81908
v irf_401 global -3.66808 -2 -3.75877
v irf_402 global -3.66808 -3 -3.75877
v irf_403 global -3.66808 -4 -3.75877
v irf_404 global -3.66808 -5 -3.75877
v irf_405 global -3.66808 -6 -3.75877
v irf_406 global -3.66808 -7 -3.75877
v irf_407 global -3.66808 -8 -3.75877
v irf_408 global -3.66808 -9 -3.75877
v irf_501 global -4.0101 -2 -4.69846
v irf_502 global -4.0101 -3 -4.69846
v irf_503 global -4.0101 -4 -4.69846
v irf_504 global -4.0101 -5 -4.69846
v irf_505 global -4.0101 -6 -4.69846
v irf_506 global -4.0101 -7 -4.69846
v irf_507 global -4.0101 -8 -4.69846
v irf_508 global -4.0101 -9 -4.69846

o "irf" t global

100
e 3 elocal ttb 0 0 0 irf_001 irf_101 irf_102
e 3 elocal ttb 0 0 0 irf_001 irf_102 irf_002
e 3 elocal ttb 0 0 0 irf_002 irf_102 irf_103
e 3 elocal ttb 0 0 0 irf_002 irf_103 irf_003
e 3 elocal ttb 0 0 0 irf_003 irf_103 irf_104
e 3 elocal ttb 0 0 0 irf_003 irf_104 irf_004
e 3 elocal ttb 0 0 0 irf_004 irf_104 irf_105
e 3 elocal ttb 0 0 0 irf_004 irf_105 irf_005
e 3 elocal ttb 0 0 0 irf_005 irf_105 irf_106
e 3 elocal ttb 0 0 0 irf_005 irf_106 irf_006
e 3 elocal ttb 0 0 0 irf_006 irf_106 irf_107
e 3 elocal ttb 0 0 0 irf_006 irf_107 irf_007
e 3 elocal ttb 0 0 0 irf_007 irf_107 irf_108
e 3 elocal ttt 0 0 0 -6.442 irf_007 irf_108 irf_008
e 3 elocal ttb 0 0 0 irf_101 irf_201 irf_202
e 3 elocal ttb 0 0 0 irf_101 irf_202 irf_102
e 3 elocal ttb 0 0 0 irf_102 irf_202 irf_203
e 3 elocal ttb 0 0 0 irf_102 irf_203 irf_103
e 3 elocal ttb 0 0 0 irf_103 irf_203 irf_204
e 3 elocal ttb 0 0 0 irf_103 irf_204 irf_104
e 3 elocal ttb 0 0 0 irf_104 irf_204 irf_205
e 3 elocal ttb 0 0 0 irf_104 irf_205 irf_105
e 3 elocal ttb 0 0 0 irf_105 irf_205 irf_206
e 3 elocal ttb 0 0 0 irf_105 irf_206 irf_106
e 3 elocal ttb 0 0 0 irf_106 irf_206 irf_207
e 3 elocal ttb 0 0 0 irf_106 irf_207 irf_107
e 3 elocal ttb 0 0 0 irf_107 irf_207 irf_208
e 3 elocal ttb 0 0 0 irf_107 irf_208 irf_108
e 3 elocal ttb 0 0 0 irf_201 irf_301 irf_302
e 3 elocal ttb 0 0 0 irf_201 irf_302 irf_202
e 3 elocal ttb 0 0 0 irf_202 irf_302 irf_303

100
e 3 elocal ttb 0 0 0 irf_202 irf_303 irf_203
e 3 elocal ttb 0 0 0 irf_203 irf_303 irf_304
e 3 elocal ttb 0 0 0 irf_203 irf_304 irf_204
e 3 elocal ttb 0 0 0 irf_204 irf_304 irf_305
e 3 elocal ttb 0 0 0 irf_204 irf_305 irf_205
e 3 elocal ttb 0 0 0 irf_205 irf_305 irf_306
e 3 elocal ttb 0 0 0 irf_205 irf_306 irf_206
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e 3 elocal ttb 0 0 0 irf_206 irf_307 irf_207
e 3 elocal ttb 0 0 0 irf_207 irf_307 irf_308
e 3 elocal ttb 0 0 0 irf_207 irf_308 irf_208
e 3 elocal ttb 0 0 0 irf_301 irf_401 irf_402
e 3 elocal ttb 0 0 0 irf_301 irf_402 irf_302
e 3 elocal ttb 0 0 0 irf_302 irf_402 irf_403
e 3 elocal ttb 0 0 0 irf_302 irf_403 irf_303
e 3 elocal ttb 0 0 0 irf_303 irf_403 irf_404
e 3 elocal ttb 0 0 0 irf_303 irf_404 irf_304
e 3 elocal ttb 0 0 0 irf_304 irf_404 irf_405
e 3 elocal ttb 0 0 0 irf_304 irf_405 irf_305
e 3 elocal ttb 0 0 0 irf_305 irf_405 irf_406
e 3 elocal ttb 0 0 0 irf_305 irf_406 irf_306
e 3 elocal ttb 0 0 0 irf_306 irf_406 irf_407
e 3 elocal ttb 0 0 0 irf_306 irf_407 irf_307
e 3 elocal ttb 0 0 0 irf_307 irf_407 irf_408
e 3 elocal ttb 0 0 0 irf_307 irf_408 irf_308
e 3 elocal ttb 0 0 0 irf_401 irf_501 irf_502
e 3 elocal ttb 0 0 0 irf_401 irf_502 irf_402
e 3 elocal ttb 0 0 0 irf_402 irf_502 irf_503
e 3 elocal ttb 0 0 0 irf_402 irf_503 irf_403
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e 3 elocal ttb 0 0 0 irf_403 irf_504 irf_404
e 3 elocal ttb 0 0 0 irf_404 irf_504 irf_505
e 3 elocal ttb 0 0 0 irf_404 irf_505 irf_405

e 3 elocal ttb 0 0 0 irf_405 irf_505 irf_506
e 3 elocal ttb 0 0 0 irf_405 irf_506 irf_406
e 3 elocal ttb 0 0 0 irf_406 irf_506 irf_507
e 3 elocal ttb 0 0 0 irf_406 irf_507 irf_407
e 3 elocal ttb 0 0 0 irf_407 irf_507 irf_508
e 3 elocal ttb 0 0 0 irf_407 irf_508 irf_408

end

OUTPUT FROM: poly3d.c, version Beta-Release
COMPILED: Feb 2 1999

INPUT FILE: combined_trial.in
TITLE: "four-fault model"
TITLE2: "slir = 10"

ELASTIC CONSTANTS:
Shear Modulus = 30000.000000
Poisson's Ratio = 0.250000
Young's Modulus = 75000.000000
Bulk Modulus = 50000.000000
Lame's Lambda = 30000.000000

NULL OUTPUT VALUE = -999.000000

COEF EXCLUSION VALUE = 0.000000

CONDITION NUMBER = 474.637831

OBJECT: pcf
ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT U2(+)	X1C U2(-)	X2C	X3C	B1 U3(+)	B2 U3(-)	U1(+)	U1(-)	B2
1	2.222	9.135	-0.627	4.378e-004	1.998e-004	-2.380e-004	-1.116e-004	-
3	0.066e-005	8.154e-005	0.000e+000	-6.269e-005	-6.269e-005	elocal		
2	2.386	8.817	-0.313	5.481e-004	-2.935e-004	-8.416e-004	-9.876e-005	
8	3.922e-005	1.827e-004	0.000e+000	-9.777e-005	-9.777e-005	elocal		
3	2.372	8.135	-0.627	7.025e-004	3.396e-004	-3.629e-004	-1.502e-004	-
5	1.066e-005	9.911e-005	0.000e+000	-1.271e-004	-1.271e-004	elocal		
4	2.536	7.817	-0.313	7.704e-004	-4.031e-004	-1.174e-003	-1.369e-004	-
9	7.988e-005	2.349e-004	0.000e+000	-1.617e-004	-1.617e-004	elocal		
5	2.522	7.135	-0.627	8.456e-004	4.120e-004	-4.336e-004	-1.665e-004	-
6	3.088e-005	1.034e-004	0.000e+000	-1.829e-004	-1.829e-004	elocal		
6	2.686	6.817	-0.313	8.921e-004	4.257e-004	-4.664e-004	-1.553e-004	-
5	3.322e-005	1.021e-004	0.000e+000	-2.153e-004	-2.153e-004	elocal		
7	2.672	6.135	-0.627	9.227e-004	-4.743e-004	-1.397e-003	-1.602e-004	-
9	9.656e-005	2.567e-004	0.000e+000	-2.373e-004	-2.373e-004	elocal		
8	2.836	5.817	-0.313	9.548e-004	-5.015e-004	-1.456e-003	-1.434e-004	-
9	2.655e-005	2.360e-004	0.000e+000	-2.699e-004	-2.699e-004	elocal		
9	2.715	5.171	-0.627	9.511e-004	-4.954e-004	-1.447e-003	3.214e-005	-
1	1.030e-004	-1.352e-004	0.000e+000	-2.791e-004	-2.791e-004	elocal		
10	2.773	4.853	-0.313	9.644e-004	-5.421e-004	-1.507e-003	3.584e-005	-
1	1.076e-004	-1.434e-004	0.000e+000	-3.050e-004	-3.050e-004	elocal		
11	2.549	4.207	-0.627	9.192e-004	-5.431e-004	-1.462e-003	7.011e-005	-
1	1.084e-004	-1.785e-004	0.000e+000	-3.239e-004	-3.239e-004	elocal		
12	2.609	3.853	-0.313	9.206e-004	3.477e-004	-5.728e-004	8.076e-005	-
3	7.84e-005	-1.186e-004	0.000e+000	-3.512e-004	-3.512e-004	elocal		

41	2.373	5.159	-1.566	8.728e-004	4.244e-004	-4.484e-004	6.124e-005	-
2	2.995e-005	9.119e-005	0.000e+000	-1.973e-004	-1.973e-004	elocal		
42	2.431	4.878	-1.253	8.988e-004	-4.840e-004	-1.384e-003	7.211e-005	-
9	9.977e-005	-1.719e-004	0.000e+000	-2.505e-004	-2.505e-004	elocal		
43	2.207	4.267	-1.566	8.525e-004	3.590e-004	-4.935e-004	1.037e-004	-
6	5.400e-006	-9.720e-005	0.000e+000	-2.275e-004	-2.275e-004	elocal		
4	2.267	3.914	-1.253	8.715e-004	3.510e-004	-5.205e-004	1.158e-004	-
6	4.436e-006	-1.094e-004	0.000e+000	-2.821e-004	-2.821e-004	elocal		
45	2.043	3.267	-1.566	8.188e-004	-5.189e-004	-1.338e-003	1.647e-004	-
1	1.239e-004	-2.885e-004	0.000e+000	-2.504e-004	-2.504e-004	elocal		
46	2.101	2.914	-1.253	8.352e-004	-5.411e-004	-1.376e-003	1.780e-004	-
1	1.335e-004	-3.114e-004	0.000e+000	-3.032e-004	-3.032e-004	elocal		
47	1.847	2.289	-1.566	7.812e-004	2.500e-004	-5.311e-004	2.498e-004	-
6	2.070e-005	-1.877e-004	0.000e+000	-2.569e-004	-2.569e-004	elocal		
48	1.877	1.945	-1.253	7.964e-004	-5.563e-004	-1.353e-003	2.573e-004	-
1	1.957e-004	-4.531e-004	0.000e+000	-3.057e-004	-3.057e-004	elocal		
49	1.597	1.319	-1.566	7.598e-004	2.068e-004	-5.530e-004	2.764e-004	-
8	2.72e-005	-1.937e-004	0.000e+000	-2.581e-004	-2.581e-004	elocal		
50	1.627	0.956	-1.253	7.762e-004	2.041e-004	-5.721e-004	2.820e-004	-
8	2.87e-005	-1.991e-004	0.000e+000	-3.058e-004	-3.058e-004	elocal		
51	1.347	0.319	-1.566	7.553e-004	1.871e-004	-5.682e-004	2.873e-004	-
9	3.95e-005	-1.934e-004	0.000e+000	-2.521e-004	-2.521e-004	elocal		
52	1.377	-0.093	-1.253	7.813e-004	1.855e-004	-5.958e-004	2.699e-004	-
9	2.96e-005	-1.769e-004	0.000e+000	-2.930e-004	-2.930e-004	elocal		
53	1.180	-0.493	-1.566	7.887e-004	2.051e-004	-5.836e-004	1.695e-004	-
1	1.041e-004	-6.534e-005	0.000e+000	-2.473e-004	-2.473e-004	elocal		
54	1.222	-0.923	-1.566	7.979e-004	2.394e-004	-5.585e-004	1.092e-004	-
1	1.245e-004	1.523e-005	0.000e+000	-2.577e-004	-2.577e-004	elocal		
55	1.377	-1.239	-1.253	8.221e-004	5.467e-004	-1.369e-003	1.280e-004	-
3	1.88e-005	-9.613e-005	0.000e+000	-3.137e-004	-3.137e-004	elocal		
56	1.241	-1.923	-1.566	7.722e-004	2.864e-004	-4.858e-004	2.762e-004	-
1	1.395e-004	-1.367e-004	0.000e+000	-2.875e-004	-2.875e-004	elocal		
57	1.397	-2.239	-1.253	8.522e-004	-5.619e-004	-1.414e-003	1.876e-004	-
2	2.888e-005	-1.587e-004	0.000e+000	-2.645e-004	-2.645e-004	elocal		
58	1.158	-2.771	-1.566	7.799e-004	2.888e-004	-4.911e-004	4.164e-004	-
1	1.952e-004	-2.213e-004	0.000e+000	-2.236e-004	-2.236e-004	elocal		
59	1.211	-3.010	-1.253	7.350e-004	-4.089e-004	-1.144e-003	5.210e-004	-
3	4.45e-004	-8.665e-004	0.000e+000	-2.459e-004	-2.459e-004	elocal		
60	0.763	-3.543	-1.566	7.323e-004	3.120e-004	-4.203e-004	4.647e-004	-
1	1.631e-004	-3.016e-004	0.000e+000	-1.899e-004	-1.899e-004	elocal		
61	0.711	-3.934	-1.253	7.193e-004	2.972e-004	-4.221e-004	4.446e-004	-
1	1.432e-004	-3.014e-004	0.000e+000	-2.036e-004	-2.036e-004	elocal		
62	0.263	-4.543	-1.566	6.096e-004	2.255e-004	-3.841e-004	4.269e-004	-
1	1.390e-004	-2.879e-004	0.000e+000	-1.537e-004	-1.537e-004	elocal		
63	0.211	-4.934	-1.253	5.711e-004	1.917e-004	-3.794e-004	3.924e-004	-
1	1.45e-004	-2.778e-004	0.000e+000	-1.656e-004	-1.656e-004	elocal		
64	-0.237	-5.543	-1.566	4.063e-004	8.747e-005	-3.189e-004	3.377e-004	-
9	7.42e-005	-2.402e-004	0.000e+000	-1.114e-004	-1.114e-004	elocal		
65	-0.289	-5.934	-1.253	3.336e-004	3.548e-005	-2.981e-004	2.658e-004	-
5	5.65e-005	-2.102e-004	0.000e+000	-1.149e-004	-1.149e-004	elocal		
66	1.538	9.039	-2.506	3.628e-004	1.652e-004	-1.976e-004	-1.305e-004	-
5	5.049e-005	8.003e-005	0.000e+000	-8.456e-006	-8.456e-006	elocal		
67	1.702	8.721	-2.192	4.410e-004	2.066e-004	-2.344e-004	-1.528e-004	-
6	1.31e-005	9.147e-005	0.000e+000	-3.390e-005	-3.390e-005	elocal		
68	1.688	8.039	-2.506	5.573e-004	2.671e-004	-2.902e-004	-1.822e-004	-
7	7.03e-005	1.051e-004	0.000e+000	-3.238e-005	-3.238e-005	elocal		

13	2.385	3.207	-0.627	8.764e-004	3.109e-004	-5.655e-004	1.353e-004	-
3	6.82e-006	-1.316e-004	0.000e+000	-3.581e-004	-3.581e-004	elocal		
14	2.443	2.853	-0.313	8.767e-004	-5.905e-004	-1.467e-003	1.502e-004	-
1	1.400e-004	-2.903e-004	0.000e+000	-3.805e-004	-3.805e-004	elocal		
15	2.189	2.217	-0.627	8.313e-004	-5.751e-004	-1.406e-003	2.256e-004	-
1	1.977e-004	-4.233e-004	0.000e+000	-3.707e-004	-3.707e-004	elocal		
16	2.219	1.864	-0.313	8.298e-004	2.251e-004	-6.047e-004	2.341e-004	-
3	0.45e-005	-2.037e-004	0.000e+000	-3.874e-004	-3.874e-004	elocal		
17	1.939	1.228	-0.627	8.033e-004	-5.957e-004	-1.399e-003	2.658e-004	-
2	2.034e-004	-4.692e-004	0.000e+000	-3.764e-004	-3.764e-004	elocal		
18	1.969	0.864	-0.313	8.038e-004	1.868e-004	-6.170e-004	2.729e-004	-
6	3.41e-005	-2.094e-004	0.000e+000	-3.932e-004	-3.932e-004	elocal		
19	1.689	0.179	-0.627	7.987e-004	1.904e-004	-6.084e-004	2.749e-004	-
9	1.12e-005	-1.838e-004	0.000e+000	-3.776e-004	-3.776e-004	elocal		
20	1.719	-0.185	-0.313	7.988e-004	1.933e-004	-6.065e-004	2.815e-004	-
8	0.059e-005	-2.008e-004	0.000e+000	-4.046e-004	-4.046e-004	elocal		
21	1.564	-0.869	-0.627	8.432e-004	-5.979e-004	-1.441e-003	1.449e-004	-
4	4.22e-005	-1.007e-004	0.000e+000	-3.719e-004	-3.719e-004	elocal		
22	1.719	-1.185	-0.313	8.596e-004	-5.917e-004	-1.451e-003	1.695e-004	-
6	0.033e-005	-1.091e-004	0.000e+000	-3.869e-004	-3.869e-004	elocal		
23	1.689	-1.869	-0.627	8.667e-004	-5.170e-004	-1.384e-003	2.004e-004	-
4	8.02e-005	-1.523e-004	0.000e+000	-3.479e-004	-3.479e-004	elocal		
24	1.844	-2.185	-0.313	9.024e-004	3.846e-004	-5.178e-004	2.340e-004	-
2	9.13e-004	5.730e-005	0.000e+000	-3.267e-004	-3.267e-004	elocal		
25	1.605	-2.793	-0.627	7.662e-004	3.743e-004	-3.920e-004	4.950e-004	-
1	1.602e-004	-3.347e-004	0.000e+000	-3.083e-004	-3.083e-004	elocal		
26	1.553	-3.109	-0.313	7.889e-004	-4.764e-004	-1.265e-003	4.556e-004	-
3	0.42e-004	-7.597e-004	0.000e+000	-2.785e-004	-2.785e-004	elocal		
27	1.105	-3.717	-0.627	7.527e-004	-4.469e-004	-1.200e-003	4.273e-004	-
2	2.995e-004	-7.268e-004	0.000e+000	-2.531e-004	-2.531e-004	elocal		
28	1.053	-4.109	-0.313	7.335e-004	2.770e-004	-4.565e-004	3.926e-004	-
9	6.58e-005	-2.960e-004	0.000e+000	-2.434e-004	-2.434e-004	el		

97 -0.579 -5.368 -2.506 3.954e-004 9.008e-005 -3.054e-004 3.617e-004
1.330e-004 -2.287e-004 0.000e+000 -4.072e-005 -4.072e-005 elocal
98 -0.631 -5.760 -2.132 3.370e-004 4.721e-005 -2.898e-004 2.938e-004
9.234e-005 -2.014e-004 0.000e+000 -4.715e-005 -4.715e-005 elocal
99 1.196 8.991 -3.446 3.100e-004 1.379e-004 -1.721e-004 -1.222e-004 -
4.742e-005 7.476e-005 0.000e+000 1.269e-005 1.269e-005 elocal
100 1.360 8.673 -3.132 2.841e-004 1.763e-004 -2.078e-004 -1.446e-004 -
5.873e-005 8.586e-005 0.000e+000 -6.139e-006 -6.139e-006 elocal
101 1.346 7.991 -3.446 4.599e-004 -2.448e-004 -7.047e-004 -1.660e-004
9.588e-005 2.619e-004 0.000e+000 2.441e-006 2.441e-006 elocal
102 1.510 7.673 -3.132 5.256e-004 2.497e-004 -2.759e-004 -1.716e-004 -
7.273e-005 9.891e-005 0.000e+000 -2.475e-005 -2.475e-005 elocal
103 1.496 6.991 -3.446 5.441e-004 2.578e-004 -2.863e-004 -1.625e-004 -
6.820e-005 9.433e-005 0.000e+000 -1.339e-005 -1.339e-005 elocal
104 1.660 6.673 -3.132 6.105e-004 -3.178e-004 -9.283e-004 -1.560e-004
9.194e-005 2.480e-004 0.000e+000 -4.748e-005 -4.748e-005 elocal
105 1.646 5.991 -3.446 5.969e-004 2.820e-004 -3.148e-004 -1.192e-004 -
4.425e-005 7.491e-005 0.000e+000 -3.385e-005 -3.385e-005 elocal
106 1.810 5.673 -3.132 6.633e-004 -3.457e-004 -1.009e-003 -9.469e-005
6.506e-005 1.598e-004 0.000e+000 -7.351e-005 -7.351e-005 elocal
107 1.689 5.135 -3.446 6.198e-004 -3.360e-004 -9.558e-004 1.057e-004 -
6.989e-005 -1.756e-004 0.000e+000 -5.002e-005 -5.002e-005 elocal
108 1.747 4.926 -3.132 6.648e-004 2.946e-004 -3.702e-004 1.262e-004
4.193e-005 -8.430e-005 0.000e+000 -8.506e-005 -8.506e-005 elocal
109 1.523 4.388 -3.446 6.047e-004 -3.663e-004 -9.710e-004 1.356e-004 -
7.332e-005 -2.089e-004 0.000e+000 -4.942e-005 -4.942e-005 elocal
110 1.593 4.034 -3.132 6.563e-004 -4.055e-004 -1.062e-003 1.565e-004 -
8.900e-005 -2.455e-004 0.000e+000 -8.349e-005 -8.349e-005 elocal
111 1.359 3.388 -3.446 5.888e-004 -3.915e-004 -9.803e-004 1.854e-004 -
9.907e-005 -2.844e-004 0.000e+000 -4.655e-005 -4.655e-005 elocal
112 1.417 3.034 -3.132 6.375e-004 2.098e-004 -4.276e-004 2.047e-004
9.132e-005 -1.133e-004 0.000e+000 -8.255e-005 -8.255e-005 elocal
113 1.163 2.430 -3.446 5.666e-004 -4.052e-004 -9.718e-004 2.553e-004 -
1.456e-004 -4.010e-004 0.000e+000 -3.886e-005 -3.886e-005 elocal
114 1.193 2.105 -3.132 6.113e-004 -4.417e-004 -1.053e-003 2.690e-004 -
1.617e-004 -4.308e-004 0.000e+000 -7.364e-005 -7.364e-005 elocal
115 0.913 1.503 -3.446 5.580e-004 -4.259e-004 -9.840e-004 2.599e-004 -
1.512e-004 -4.112e-004 0.000e+000 -2.804e-005 -2.804e-005 elocal
116 0.943 1.139 -3.132 6.045e-004 -4.609e-004 -1.065e-003 2.732e-004 -
1.635e-004 -4.367e-004 0.000e+000 -6.279e-005 -6.279e-005 elocal
117 0.663 0.503 -3.446 5.537e-004 -4.402e-004 -9.939e-004 2.578e-004 -
1.503e-004 -4.082e-004 0.000e+000 -1.124e-005 -1.124e-005 elocal
118 0.693 0.139 -3.132 6.008e-004 1.259e-004 -4.749e-004 2.575e-004
1.006e-004 -1.569e-004 0.000e+000 -4.463e-005 -4.463e-005 elocal
119 0.496 -0.358 -3.446 5.751e-004 -4.598e-004 -1.035e-003 1.349e-004 -
8.310e-005 -2.180e-004 0.000e+000 -3.333e-006 -3.333e-006 elocal
120 0.610 -0.535 -3.132 6.089e-004 -4.760e-004 -1.085e-003 1.229e-004 -
6.969e-005 -1.926e-004 0.000e+000 -5.659e-005 -5.659e-005 elocal
121 0.538 -1.032 -3.446 5.847e-004 -4.385e-004 -1.023e-003 6.041e-005 -
2.797e-005 -8.838e-005 0.000e+000 -2.867e-005 -2.867e-005 elocal
122 0.693 -1.348 -3.132 6.435e-004 -4.494e-004 -1.093e-003 8.246e-005 -
2.029e-005 -1.028e-004 0.000e+000 -8.721e-005 -8.721e-005 elocal
123 0.496 -2.061 -3.446 5.512e-004 1.745e-004 -3.768e-004 2.756e-004
1.073e-004 -1.683e-004 0.000e+000 -7.098e-005 -7.098e-005 elocal
124 0.485 -2.481 -3.132 6.130e-004 2.076e-004 -4.053e-004 3.105e-004
1.346e-004 -1.760e-004 0.000e+000 -1.090e-004 -1.090e-004 elocal

153 0.196 -1.086 -4.385 3.608e-004 4.075e-005 -3.200e-004 1.693e-005 -
1.370e-005 -3.052e-005 0.000e+000 6.163e-005 6.163e-005 elocal
154 0.351 -1.402 -4.072 4.619e-004 1.039e-004 -3.580e-004 4.762e-005
1.612e-005 -3.150e-005 0.000e+000 1.272e-005 1.272e-005 elocal
155 0.154 -2.039 -4.385 3.329e-004 5.513e-005 -2.778e-004 2.146e-004
8.954e-005 -1.251e-004 0.000e+000 3.001e-005 3.001e-005 elocal
156 0.143 -2.383 -4.072 4.368e-004 1.174e-004 -3.195e-004 2.574e-004
1.097e-004 -1.477e-004 0.000e+000 -3.066e-006 -3.066e-006 elocal
157 -0.263 -3.020 -4.385 3.134e-004 6.616e-005 -2.473e-004 2.712e-004
1.176e-004 -1.536e-004 0.000e+000 2.292e-005 2.292e-005 elocal
158 -0.315 -3.412 -4.072 4.406e-004 -2.870e-004 -7.276e-004 3.781e-004 -
2.065e-004 -5.846e-004 0.000e+000 2.235e-005 2.235e-005 elocal
159 -0.763 -4.020 -4.385 3.114e-004 8.210e-005 -2.293e-004 3.165e-004
1.487e-004 -1.678e-004 0.000e+000 5.934e-005 5.934e-005 elocal
160 -0.815 -4.412 -4.072 3.726e-004 -2.667e-004 -6.393e-004 3.606e-004 -
1.940e-004 -5.546e-004 0.000e+000 4.681e-005 4.681e-005 elocal
161 -1.263 -5.020 -4.385 2.403e-004 2.682e-005 -2.134e-004 2.829e-004
1.354e-004 -1.475e-004 0.000e+000 7.397e-005 7.397e-005 elocal
162 -1.315 -5.412 -4.072 2.558e-004 2.551e-005 -2.303e-004 2.729e-004
1.247e-004 -1.481e-004 0.000e+000 6.905e-005 6.905e-005 elocal

OBJECT: brf
ELT CENTER COORD SYS: global
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DISPLACEMENTS:

ELT	X1C	X2C	X3C	B1	U1(+)	U1(-)	B2
U2(+)	U2(-)	B3	U3(+)	U3(-)	Coord Sys		
1	0.772	4.833	-0.627	2.464e-004	2.997e-004	5.330e-005	8.791e-007
4.719e-005	4.631e-005	0.000e+000	-2.819e-004	-2.819e-004	elocal		
2	0.886	4.667	-0.313	3.407e-004	3.497e-004	8.974e-006	2.480e-005
7.099e-005	4.619e-005	0.000e+000	-3.448e-004	-3.448e-004	elocal		
3	0.722	4.183	-0.627	4.548e-004	3.952e-004	-5.956e-005	6.723e-005
5.380e-005	-1.343e-005	0.000e+000	-3.231e-004	-3.231e-004	elocal		
4	0.786	3.849	-0.313	5.199e-004	4.144e-004	-1.055e-004	9.851e-005
7.542e-005	-2.309e-005	0.000e+000	-3.846e-004	-3.846e-004	elocal		
5	0.575	3.199	-0.627	5.848e-004	4.397e-004	-1.450e-004	9.186e-005
8.654e-005	-5.327e-006	0.000e+000	-3.559e-004	-3.559e-004	elocal		
6	0.643	2.849	-0.313	6.240e-004	4.495e-004	-1.745e-004	1.075e-004
9.931e-005	-8.228e-006	0.000e+000	-4.086e-004	-4.086e-004	elocal		
7	0.435	2.199	-0.627	6.450e-004	4.588e-004	-1.862e-004	9.951e-005
1.081e-004	8.600e-006	0.000e+000	-3.654e-004	-3.654e-004	elocal		
8	0.503	1.849	-0.313	6.684e-004	4.615e-004	-2.069e-004	1.022e-004
1.156e-004	1.339e-005	0.000e+000	-4.118e-004	-4.118e-004	elocal		
9	0.319	1.410	-0.627	6.572e-004	4.646e-004	-1.926e-004	1.113e-004
1.164e-004	5.082e-006	0.000e+000	-3.688e-004	-3.688e-004	elocal		
10	0.409	1.227	-0.313	6.575e-004	4.503e-004	-2.154e-004	9.503e-005
1.273e-004	3.228e-004	0.000e+000	-4.267e-004	-4.267e-004	elocal		
11	0.109	0.791	-0.627	6.299e-004	3.883e-004	-2.416e-004	1.817e-004
6.262e-005	-1.191e-004	0.000e+000	-3.599e-004	-3.599e-004	elocal		
12	0.059	0.401	-0.313	6.334e-004	3.489e-004	-2.845e-004	1.512e-004
1.813e-005	-1.331e-004	0.000e+000	-3.911e-004	-3.911e-004	elocal		

125 0.079 -3.194 -3.446 5.405e-004 -3.398e-004 -8.803e-004 4.520e-004 -
2.516e-004 -7.035e-004 0.000e+000 -4.737e-005 -4.737e-005 elocal
126 0.027 -3.586 -3.132 5.990e-004 -3.569e-004 -9.599e-004 4.502e-004 -
2.610e-004 -7.113e-004 0.000e+000 -4.551e-005 -4.551e-005 elocal
127 -0.421 -4.194 -3.446 4.879e-004 1.722e-004 -3.157e-004 4.266e-004
1.841e-004 -2.425e-004 0.000e+000 -2.722e-006 -2.722e-006 elocal
128 -0.473 -4.586 -3.132 4.933e-004 1.642e-004 -3.291e-004 4.235e-004
1.769e-004 -2.466e-004 0.000e+000 -1.643e-005 -1.643e-005 elocal
129 -0.921 -5.194 -3.446 3.518e-004 7.568e-005 -2.761e-004 3.576e-004
1.537e-004 -2.040e-004 0.000e+000 2.369e-005 2.369e-005 elocal
130 -0.973 -5.586 -3.132 3.152e-004 4.563e-005 -2.696e-004 3.016e-004
1.189e-004 -1.827e-004 0.000e+000 1.782e-005 1.782e-005 elocal
131 0.854 8.943 -4.385 2.110e-004 8.760e-005 -1.234e-004 -9.822e-005 -
3.571e-005 6.251e-005 0.000e+000 2.967e-005 2.967e-005 elocal
132 1.018 8.625 -4.072 2.917e-004 -1.631e-004 -4.548e-004 -1.207e-004
7.349e-005 1.942e-004 0.000e+000 1.777e-005 1.777e-005 elocal
133 1.004 7.943 -4.385 2.946e-004 1.298e-004 -1.649e-004 -1.236e-004 -
4.898e-005 7.461e-005 0.000e+000 3.284e-005 3.284e-005 elocal
134 1.168 7.625 -4.072 3.826e-004 -2.080e-004 -5.906e-004 -1.358e-004
8.050e-005 2.163e-004 0.000e+000 1.335e-005 1.335e-005 elocal
135 1.154 6.943 -4.385 3.401e-004 1.509e-004 -1.892e-004 -1.178e-004 -
4.629e-005 7.148e-005 0.000e+000 2.967e-005 2.967e-005 elocal
136 1.318 6.625 -4.072 4.364e-004 1.994e-004 -2.370e-004 -1.196e-004 -
4.706e-005 7.254e-005 0.000e+000 4.247e-006 4.247e-006 elocal
137 1.304 5.943 -4.385 3.686e-004 1.585e-004 -2.101e-004 -8.541e-005 -
2.986e-005 5.556e-005 0.000e+000 2.272e-005 2.272e-005 elocal
138 1.468 5.625 -4.072 4.739e-004 1.212e-004 -2.612e-004 -6.457e-005 -
1.631e-005 4.826e-005 0.000e+000 -8.189e-006 -8.189e-006 elocal
139 1.347 5.123 -4.385 3.936e-004 1.578e-004 -2.358e-004 1.012e-004
5.965e-005 -4.155e-005 0.000e+000 1.019e-005 1.019e-005 elocal
140 1.405 4.950 -4.072 4.608e-004 -2.728e-004 -7.337e-004 1.245e-004 -
6.054e-005 -1.850e-004 0.000e+000 -1.494e-005 -1.494e-005 elocal
141 1.181 4.448 -4.385 3.731e-004 1.255e-004 -2.476e-004 1.086e-004
4.606e-005 -4.397e-005 0.000e+000 2.335e-005 2.335e-005 elocal
142 1.241 4.095 -4.072 4.691e-004 -3.069e-004 -7.760e-004 1.412e-004 -
6.551e-005 -2.067e-004 0.000e+000 -8.756e-007 -8.756e-007 elocal
143 1.017 3.448 -4.385 3.666e-004 9.460e-005 -2.720e-004 1.408e-004
7.709e-005 -6.368e-005 0.000e+000 3.589e-005 3.589e-005 elocal
144 1.075 3.085 -4.072 4.598e-004 1.303e-004 -3.295e-004 1.756e-004
8.974e-005 -8.588e-005 0.000e+000 9.279e-006 9.279e-006 elocal
145 0.821 2.500 -4.385 3.557e-004 6.784e-005 -2.878e-004 1.946e-004
1.003e-004 -9.425e-005 0.000e+000 4.770e-005 4.770e-005 elocal
146 0.851 2.189 -4.072 4.396e-004 9.860e-005 -3.410e-004 2.256e-004
1.062e-004 -1.194e-004 0.000e+000 2.236e-005 2.236e-005 elocal
147 0.571 1.594 -4.385 3.494e-004 4.521e-005 -3.042e-004 1.875e-004
8.841e-005 -9.906e-005 0.000e+000 6.202e-005 6.202e-005 elocal
148 0.601 1.231 -4.072 4.388e-004 7.843e-005 -3.604e-004 2.213e-004
9.995e-005 -1.214e-004 0.000e+000 3.677e-005 3.677e-005 elocal
149 0.321 0.594 -4.385 3.459e-004 2.871e-005 -3.172e-004 1.833e-004
8.569e-005 -9.766e-005 0.000e+000 7.882e-005 7.882e-005 elocal
150 0.351 0.231 -4.072 4.338e-004 6.178e-005 -3.721e-004 2.035e-004
8.942e-005 -1.141e-004 0.000e+000 5.573e-005 5.573e-005 elocal
151 0.154 -0.315 -4.385 3.599e-004 2.557e-005 -3.343e-004 8.114e-005
1.708e-005 -6.405e-005 0.000e+000 8.458e-005 8.458e-005 elocal
152 0.268 -0.540 -4.072 4.297e-004 -3.717e-004 -8.015e-004 7.878e-005 -
5.881e-005 -1.376e-004 0.000e+000 4.644e-005 4.644e-005 elocal

13 -0.218 0.071 -0.627 6.158e-004 3.444e-004 -2.714e-004 -1.808e-005
8.015e-005 9.823e-005 0.000e+000 3.265e-004 3.265e-004 elocal
14 -0.218 -0.243 -0.627 5.863e-004 3.298e-004 -2.564e-004 -5.701e-005
6.894e-005 1.260e-004 0.000e+000 -3.272e-004 -3.272e-004 elocal
15 -0.104 -0.497 -0.313 5.757e-004 3.215e-004 -2.542e-004 -8.753e-005
6.620e-005 1.537e-004 0.000e+000 -3.864e-004 -3.864e-004 elocal
16 -0.218 -0.839 -0.627 4.981e-004 2.842e-004 -2.139e-004 -1.002e-004
6.827e-005 1.685e-004 0.000e+000 -3.345e-004 -3.345e-004 elocal
17 -0.055 -1.136 -0.627 3.740e-004 2.641e-004 -1.099e-004 -2.833e-004
1.226e-004 4.059e-004 0.000e+000 -2.180e-004 -2.180e-004 elocal
18 0.223 -1.256 -0.313 3.347e-004 2.712e-004 -6.354e-005 -3.090e-004
1.413e-004 4.504e-004 0.000e+000 -2.673e-004 -2.673e-004 elocal
19 0.439 -1.761 -0.627 2.407e-004 3.010e-004 6.037e-005 -2.508e-004
1.204e-004 3.712e-004 0.000e+000 -2.377e-004 -2.377e-004 elocal
20 0.719 -1.881 -0.313 2.084e-004 1.098e-004 -9.854e-005 -2.167e-004
3.908e-004 6.074e-004 0.000e+000 -2.754e-004 -2.754e-004 elocal
21 0.430 4.833 -1.566 2.254e-004 2.736e-004 4.822e-005 -4.349e-006
3.233e-005 3.668e-005 0.000e+000 -1.635e-004 -1.635e-004 elocal
22 0.544 4.667 -1.253 2.967e-004 3.187e-004 2.193e-005 5.328e-006
4.290e-005 3.757e-005 0.000e+000 -2.153e-004 -2.153e-004 elocal
23 0.380 4.199 -1.566 4.044e-004 3.549e-004 -4.955e-005 5.148e-005
5.068e-005 -7.976e-007 0.000e+000 -1.874e-004 -1.874e-004 elocal
24 0.444 3.88

41 0.097 -2.028 -1.566 2.256e-004 2.909e-004 6.528e-005 -2.242e-004
 4.678e-005 2.709e-004 0.000e+000 -1.371e-004 -1.371e-004 elocal
 42 0.377 -2.148 -1.253 1.818e-004 1.282e-004 -5.353e-005 -1.764e-004
 2.662e-004 4.426e-004 0.000e+000 -1.725e-004 -1.725e-004 elocal
 43 0.089 4.833 -2.506 2.141e-004 2.366e-004 2.258e-005 2.528e-006
 3.124e-005 2.871e-005 0.000e+000 -6.249e-005 -6.249e-005 elocal
 44 0.202 4.667 -2.192 2.785e-004 2.819e-004 3.337e-006 1.227e-005
 4.046e-005 2.820e-005 0.000e+000 -1.048e-004 -1.048e-004 elocal
 45 0.038 4.215 -2.506 3.692e-004 3.050e-004 -6.419e-005 6.185e-005
 6.481e-005 2.955e-006 0.000e+000 -7.363e-005 -7.363e-005 elocal
 46 0.102 3.913 -2.192 4.174e-004 3.349e-004 -8.254e-005 7.085e-005
 7.088e-005 3.008e-008 0.000e+000 -1.189e-004 -1.189e-004 elocal
 47 -0.109 3.295 -2.506 4.760e-004 3.463e-004 -1.298e-004 8.190e-005
 8.901e-005 7.109e-006 0.000e+000 -7.478e-005 -7.478e-005 elocal
 48 -0.041 2.945 -2.192 5.156e-004 3.748e-004 -1.408e-004 9.016e-005
 9.792e-005 7.758e-006 0.000e+000 -1.215e-004 -1.215e-004 elocal
 49 -0.272 2.262 -2.506 5.328e-004 3.640e-004 -1.688e-004 1.221e-004
 1.236e-004 1.508e-006 0.000e+000 -7.074e-005 -7.074e-005 elocal
 50 -0.205 1.913 -2.192 5.712e-004 3.891e-004 -1.621e-004 1.120e-004
 1.261e-004 1.412e-005 0.000e+000 -1.203e-004 -1.203e-004 elocal
 51 -0.275 1.502 -2.192 5.647e-004 3.805e-004 -1.612e-004 1.651e-004
 1.503e-004 -1.487e-005 0.000e+000 -1.297e-004 -1.297e-004 elocal
 52 -0.575 1.155 -2.506 5.312e-004 3.225e-004 -2.086e-004 2.214e-004
 1.678e-004 -5.368e-005 0.000e+000 -6.900e-005 -6.900e-005 elocal
 53 -0.625 0.765 -2.192 5.508e-004 3.123e-004 -2.385e-004 2.049e-004
 1.416e-004 -6.328e-005 0.000e+000 -1.018e-004 -1.018e-004 elocal
 54 -0.902 0.313 -2.506 5.283e-004 2.764e-004 -2.518e-004 2.573e-005
 5.747e-005 3.175e-005 0.000e+000 -1.932e-005 -1.932e-005 elocal
 55 -0.788 0.131 -2.192 5.278e-004 2.849e-004 -2.429e-004 1.074e-006
 5.728e-005 5.620e-005 0.000e+000 -7.691e-005 -7.691e-005 elocal
 56 -0.902 -0.243 -2.506 4.938e-004 2.660e-004 -2.277e-004 -2.602e-005
 4.467e-005 7.069e-005 0.000e+000 -2.930e-005 -2.930e-005 elocal
 57 -0.788 -0.497 -2.192 4.953e-004 2.741e-004 -2.211e-004 -4.589e-005
 4.795e-005 9.384e-005 0.000e+000 -8.699e-005 -8.699e-005 elocal
 58 -0.902 -1.017 -2.506 4.394e-004 2.382e-004 -2.012e-004 -6.585e-005
 4.260e-005 1.084e-004 0.000e+000 -4.700e-005 -4.700e-005 elocal
 59 -0.788 -1.195 -2.192 4.288e-004 2.361e-004 -1.928e-004 -8.113e-005
 5.065e-005 1.318e-004 0.000e+000 -1.046e-004 -1.046e-004 elocal
 60 -0.739 -1.671 -2.506 3.258e-004 2.178e-004 -1.080e-004 -2.444e-004
 3.194e-005 2.125e-004 0.000e+000 -1.044e-005 -1.044e-005 elocal
 61 -0.461 -1.790 -2.192 3.068e-004 2.477e-004 -5.908e-005 -2.533e-004
 1.400e-005 2.393e-004 0.000e+000 -6.332e-005 -6.332e-005 elocal
 62 -0.245 -2.296 -2.506 2.186e-004 2.603e-004 4.164e-005 -2.151e-004
 2.064e-005 1.944e-004 0.000e+000 -3.788e-005 -3.788e-005 elocal
 63 0.035 -2.415 -2.192 1.851e-004 2.916e-004 1.066e-004 -1.777e-004
 2.173e-005 1.994e-004 0.000e+000 -7.703e-005 -7.703e-005 elocal
 64 -0.254 4.833 -3.446 1.891e-004 -1.939e-006 -1.910e-004 9.182e-006
 2.116e-005 1.197e-005 0.000e+000 1.997e-005 1.997e-005 elocal
 65 -0.140 4.667 -3.132 2.515e-004 -2.026e-005 -2.718e-004 2.169e-005
 1.931e-005 -2.376e-006 0.000e+000 -1.123e-005 -1.123e-005 elocal
 66 -0.304 4.231 -3.446 3.127e-004 -7.307e-005 -3.858e-004 7.227e-005
 3.591e-006 -6.868e-005 0.000e+000 1.901e-005 1.901e-005 elocal
 67 -0.240 3.945 -3.132 3.654e-004 2.733e-004 -9.213e-005 8.390e-005
 8.300e-005 -8.949e-007 0.000e+000 -1.284e-005 -1.284e-005 elocal
 68 -0.451 3.343 -3.446 3.936e-004 -1.233e-004 -5.169e-004 9.254e-005
 2.428e-007 -9.278e-005 0.000e+000 2.983e-005 2.983e-005 elocal

97 -1.472 -0.497 -4.072 3.018e-004 1.419e-004 -1.599e-004 -6.071e-006
 1.839e-005 2.446e-005 0.000e+000 1.104e-004 1.104e-004 elocal
 98 -1.586 -1.195 -4.385 2.250e-004 9.505e-005 -1.300e-004 -1.844e-005
 1.404e-005 3.248e-005 0.000e+000 1.166e-004 1.166e-004 elocal
 99 -1.472 -1.552 -4.072 2.759e-004 1.213e-004 -1.546e-004 -2.981e-005
 2.396e-005 5.377e-005 0.000e+000 9.399e-005 9.399e-005 elocal
 100 -1.423 -2.205 -4.385 1.704e-004 8.083e-005 -8.955e-005 -1.509e-004
 1.183e-004 3.263e-005 0.000e+000 1.058e-004 1.058e-004 elocal
 101 -1.145 -2.325 -4.072 1.977e-004 -8.041e-005 -2.782e-004 -1.690e-004
 5.377e-005 2.227e-004 0.000e+000 8.840e-005 8.840e-005 elocal
 102 -0.923 -2.830 -4.385 1.302e-004 9.375e-005 -3.646e-005 -1.336e-004
 1.151e-004 1.853e-005 0.000e+000 9.908e-005 9.908e-005 elocal
 103 -0.649 -2.950 -4.072 1.389e-004 1.538e-004 1.497e-005 -1.306e-004
 8.419e-005 4.636e-005 0.000e+000 8.732e-005 8.732e-005 elocal

OBJECT: scf
 ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT	X1C	X2C	X3C	B1	U1(+)	U1(-)	B2
U2(+)	U2(-)	B3	U3(+)	U3(-)	Coord Sys		
1	-2.928	5.667	-0.627	4.831e-004	2.896e-004	-1.935e-004	7.060e-006
9.987e-005	9.281e-005	0.000e+000	1.032e-004	1.032e-004	elocal		
2	-2.814	5.333	-0.313	6.117e-004	3.604e-004	-2.514e-004	5.300e-005
1.433e-004	9.030e-005	0.000e+000	1.500e-004	1.500e-004	elocal		
3	-2.928	4.667	-0.627	7.586e-004	4.571e-004	-3.015e-004	5.337e-005
1.314e-004	7.803e-005	0.000e+000	1.567e-004	1.567e-004	elocal		
4	-2.814	4.333	-0.313	8.389e-004	4.993e-004	-3.396e-004	8.718e-005
1.646e-004	7.738e-005	0.000e+000	2.033e-004	2.033e-004	elocal		
5	-2.928	3.667	-0.627	8.970e-004	5.542e-004	-3.427e-004	1.003e-004
1.606e-004	6.032e-005	0.000e+000	1.867e-004	1.867e-004	elocal		
6	-2.814	3.333	-0.313	9.583e-004	5.862e-004	-3.720e-004	1.335e-004
1.926e-004	5.918e-005	0.000e+000	2.284e-004	2.284e-004	elocal		
7	-3.028	2.695	-0.627	9.253e-004	5.678e-004	-3.575e-004	2.995e-004
2.007e-004	-9.883e-005	0.000e+000	-2.111e-004	-2.111e-004	elocal		
8	-3.014	2.362	-0.313	9.627e-004	5.517e-004	-4.110e-004	3.061e-004
1.907e-004	-1.154e-004	0.000e+000	-2.323e-004	-2.323e-004	elocal		
9	-3.228	1.890	-0.627	9.828e-004	3.947e-004	-1.378e-003	1.592e-004
1.028e-005	-1.489e-004	0.000e+000	-1.756e-004	-1.756e-004	elocal		
10	-3.114	1.695	-0.313	1.013e-003	-4.128e-004	-1.425e-003	1.564e-004
2.516e-005	-1.313e-004	0.000e+000	-2.365e-004	-2.365e-004	elocal		
11	-3.228	1.528	-0.627	1.005e-003	-3.827e-004	-1.387e-003	1.513e-004
2.154e-005	-1.297e-004	0.000e+000	-1.893e-004	-1.893e-004	elocal		
12	-3.228	1.167	-0.627	1.005e-003	-3.904e-004	-1.395e-003	1.466e-004
2.598e-005	-1.207e-004	0.000e+000	-1.708e-004	-1.708e-004	elocal		
13	-3.114	0.833	-0.313	1.045e-003	-4.118e-004	-1.457e-003	1.587e-004
3.178e-005	-1.269e-004	0.000e+000	-2.059e-004	-2.059e-004	elocal		
14	-3.228	0.167	-0.627	1.027e-003	-3.755e-004	-1.403e-003	1.616e-004
3.021e-005	-1.314e-004	0.000e+000	-1.680e-004	-1.680e-004	elocal		
15	-3.114	-0.167	-0.313	1.064e-003	-3.938e-004	-1.458e-003	1.799e-004
3.425e-005	-1.456e-004	0.000e+000	-1.993e-004	-1.993e-004	elocal		

69 -0.383 2.993 -3.132 4.444e-004 3.051e-004 -1.393e-004 1.030e-004
 1.039e-004 8.626e-007 0.000e+000 -3.346e-006 -3.346e-006 elocal
 70 -0.614 2.354 -3.446 4.361e-004 -1.545e-004 -5.906e-004 1.401e-004
 7.909e-006 -1.480e-004 0.000e+000 3.942e-005 3.942e-005 elocal
 71 -0.570 1.972 -3.132 4.880e-004 -1.718e-004 -6.598e-004 1.429e-004
 4.052e-006 -1.469e-004 0.000e+000 7.926e-006 7.926e-006 elocal
 72 -0.917 1.337 -3.446 4.318e-004 -1.807e-004 -6.125e-004 2.240e-004
 3.304e-005 -2.570e-004 0.000e+000 4.151e-005 4.151e-005 elocal
 73 -0.967 0.946 -3.132 4.699e-004 2.552e-004 -2.147e-004 2.148e-004
 1.732e-004 -4.156e-005 0.000e+000 2.023e-005 2.023e-005 elocal
 74 -1.244 0.434 -3.446 4.318e-004 2.127e-004 -2.191e-004 4.043e-005
 3.989e-005 -5.382e-007 0.000e+000 8.521e-005 8.521e-005 elocal
 75 -1.130 0.192 -3.132 4.525e-004 2.301e-004 -2.224e-004 1.583e-005
 4.059e-005 2.476e-005 0.000e+000 4.421e-005 4.421e-005 elocal
 76 -1.244 -0.243 -3.446 4.087e-004 2.054e-004 -2.033e-004 -1.027e-005
 2.768e-005 3.794e-005 0.000e+000 7.738e-005 7.738e-005 elocal
 77 -1.130 -0.497 -3.132 4.294e-004 2.219e-004 -2.076e-004 -2.766e-005
 3.216e-005 5.982e-005 0.000e+000 3.317e-005 3.317e-005 elocal
 78 -1.244 -1.106 -3.446 3.698e-004 1.828e-004 -1.870e-004 -4.496e-005
 2.677e-005 7.174e-005 0.000e+000 5.890e-005 5.890e-005 elocal
 79 -1.130 -1.374 -3.132 3.812e-004 1.910e-004 -1.902e-004 -6.136e-005
 3.628e-005 9.764e-005 0.000e+000 1.305e-005 1.305e-005 elocal
 80 -1.081 -1.938 -3.446 2.768e-004 -1.160e-004 -3.929e-004 -2.104e-004
 1.204e-004 3.307e-004 0.000e+000 6.873e-005 6.873e-005 elocal
 81 -0.803 -2.058 -3.132 2.734e-004 -7.710e-005 -3.505e-004 -2.263e-004
 1.507e-004 3.770e-004 0.000e+000 2.726e-005 2.726e-005 elocal
 82 -0.587 -2.563 -3.446 1.988e-004 2.198e-004 -1.967e-004 -1.931e-004
 1.139e-004 3.070e-004 0.000e+000 4.898e-005 4.898e-005 elocal
 83 -0.307 -2.683 -3.132 1.720e-004 1.411e-005 1.411e-005 elocal
 1.308e-004 3.014e-004 0.000e+000 1.411e-004 1.218e-004 -1.341e-006 8.090e-006
 84 -0.596 4.833 -4.385 1.232e-004 6.476e-005 6.476e-005 elocal
 2.459e-005 1.650e-005 0.000e+000 5.273e-005 5.273e-005 elocal
 85 -0.482 4.667 -4.072 1.809e-004 1.611e-004 -1.980e-005 2.332e-005
 3.571e-005 1.239e-005 0.000e+000 5.273e-005 5.273e-005 elocal
 86 -0.646 4.247 -4.385 1.919e-004 1.479e-004 -4.403e-005 6.521e-005
 7.190e-005 6.688e-006 0.000e+000 7.150e-005 7.150e-005 elocal
 87 -0.582 3.977 -4.072 2.578e-004 1.876e-004 -7.021e-005 8.409e-005
 8.253e-005 -1.557e-006 0.000e+000 6.024e-005 6.024e-005 elocal
 88 -0.793 3.331 -4.385 2.343e-004 1.610e-004 -7.331e-005 7.947e-005
 7.668e-005 -2.785e-006 0.000e+000 8.912e-005 8.912e-005 elocal
 89 -0.725 3.041 -4.072 3.117e-004 2.067e-004 -1.050e-004 1.027e-004
 9.477e-005 -7.941e-006 0.000e+000 7.728e-005 7.728e-005 elocal
 90 -0.956 2.447 -4.385 2.588e-004 1.618e-004 -9.708e-005 1.278e-004
 1.187e-004 -9.087e-006 0.000e+000 1.003e-004 1.003e-004 elocal
 91 -0.912 2.109 -4.072 3.405e-004 2.134e-004 -1.271e-004 1.474e-004
 1.329e-004 -1.456e-005 0.000e+000 8.892e-005 8.892e-005 elocal
 92 -1.259 1.518 -4.385 2.539e-004 1.449e-004 -1.090e-004 1.875e-004
 1.741e-004 -1.340e-005 0.000e+000 1.021e-004 1.021e-004 elocal
 93 -1.309 1.128 -4.072 3.255e-004 -1.530e-004 -4.785e-004 1.997e-004
 2.410e-005 -2.238e-004 0.000e+000 9.849e-005 9.849e-005 elocal
 94 -1.586 0.555 -4.385 2.585e-004 1.174e-004 -1.410e-004 3.953e-005
 2.137e-005 -1.815e-005 0.000e+000 1.358e-004 1.358e-004 elocal
 95 -1.472 0.252 -4.072 3.159e-004 1.495e-004 -1.664e-004 2.636e-005
 2.385e-005 -2.509e-006 0.000e+000 1.193e-004 1.193e-004 elocal
 96 -1.586 -0.243 -4.385 2.507e-004 1.125e-004 -1.381e-004 2.590e-006
 1.366e-005 1.107e-005 0.000e+000 1.312e-004 1.312e-004 elocal

16 -3.228 -0.667 -0.627 1.033e-003 -3.423e-004 -1.375e-003 1.943e-004
 3.150e-005 -1.628e-004 0.000e+000 -1.686e-004 -1.686e-004 elocal
 17 -3.114 -0.833 -0.313 1.047e-003 -3.534e-004 -1.400e-003 2.117e-004
 3.904e-005 -1.727e-004 0.000e+000 -2.224e-004 -2.224e-004 elocal
 18 -3.311 -1.305 -0.627 9.733e-004 -3.114e-004 -1.285e-003 3.352e-004
 6.586e-005 -4.011e-004 0.000e+000 -1.779e-004 -1.779e-004 elocal
 19 -3.281 -1.638 -0.313 9.861e-004 6.600e-004 -3.261e-004 3.249e-004
 2.723e-004 -5.259e-005 0.000e+000 -2.031e-004 -

44 -3.356 2.419 -1.253 8.604e-004 -3.346e-004 -1.195e-003 2.787e-004 -
8.184e-005 -3.606e-004 0.000e+000 -1.215e-004 -1.215e-004 elocal
45 -3.570 1.976 -1.566 8.617e-004 5.287e-004 -3.330e-004 1.377e-004
1.298e-004 -7.938e-006 0.000e+000 -3.876e-005 -3.876e-005 elocal
46 -3.456 1.780 -1.253 8.981e-004 5.540e-004 -3.441e-004 1.356e-004
1.419e-004 6.259e-006 0.000e+000 -9.930e-005 -9.930e-005 elocal
47 -3.570 1.585 -1.566 8.796e-004 5.505e-004 -3.291e-004 1.300e-004
1.331e-004 3.181e-006 0.000e+000 -3.660e-005 -3.660e-005 elocal
48 -3.456 1.528 -1.253 8.870e-004 5.584e-004 -3.286e-004 1.282e-004
1.419e-004 1.374e-005 0.000e+000 -9.872e-005 -9.872e-005 elocal
49 -3.570 1.167 -1.566 8.781e-004 5.578e-004 -3.202e-004 1.238e-004
1.354e-004 1.160e-005 0.000e+000 -3.842e-005 -3.842e-005 elocal
50 -3.456 0.833 -1.253 9.315e-004 5.941e-004 -3.374e-004 1.349e-004
1.537e-004 1.878e-005 0.000e+000 -8.967e-005 -8.967e-005 elocal
51 -3.570 0.167 -1.566 9.044e-004 5.959e-004 -3.085e-004 1.379e-004
1.553e-004 1.738e-005 0.000e+000 -3.673e-005 -3.673e-005 elocal
52 -3.456 -0.167 -1.253 9.531e-004 -1.410e-004 -1.094e-003 1.558e-004
1.657e-005 -1.392e-004 0.000e+000 -8.750e-005 -8.750e-005 elocal
53 -3.570 -0.667 -1.566 9.155e-004 6.298e-004 -2.857e-004 1.730e-004
1.857e-004 1.270e-005 0.000e+000 -3.227e-005 -3.227e-005 elocal
54 -3.456 -0.833 -1.253 9.406e-004 6.522e-004 -2.884e-004 1.926e-004
2.086e-004 1.596e-005 0.000e+000 -9.416e-005 -9.416e-005 elocal
55 -3.653 -1.276 -1.566 8.536e-004 -2.455e-004 -1.099e-003 3.305e-004 -
6.206e-005 -3.926e-004 0.000e+000 -4.928e-005 -4.928e-005 elocal
56 -3.623 -1.581 -1.253 8.792e-004 6.288e-004 -2.504e-004 3.340e-004
2.676e-004 -6.641e-005 0.000e+000 -9.014e-005 -9.014e-005 elocal
57 -3.903 -2.191 -1.566 7.599e-004 -1.516e-004 -9.115e-004 2.968e-004 -
5.280e-005 -3.496e-004 0.000e+000 -2.131e-005 -2.131e-005 elocal
58 -3.873 -2.553 -1.253 7.719e-004 -1.436e-004 -9.155e-004 2.803e-004 -
3.787e-005 -3.182e-004 0.000e+000 -6.017e-005 -6.017e-005 elocal
59 -4.237 -2.869 -1.566 8.456e-004 -3.137e-005 -5.769e-004 4.583e-004 -
1.521e-004 -6.104e-004 0.000e+000 -1.039e-004 -1.039e-004 elocal
60 -4.289 -2.986 -1.253 7.709e-004 -1.005e-004 -6.713e-004 4.926e-004 -
1.702e-004 -6.620e-004 0.000e+000 -1.635e-004 -1.635e-004 elocal
61 -4.737 -3.135 -1.566 5.778e-004 -1.413e-004 -7.191e-004 4.666e-004 -
1.479e-004 -6.145e-004 0.000e+000 -7.021e-005 -7.021e-005 elocal
62 -4.789 -3.408 -1.253 5.906e-004 4.285e-004 -1.622e-004 4.956e-004 -
3.089e-004 -1.867e-004 0.000e+000 -9.162e-005 -9.162e-005 elocal
63 -5.237 -3.635 -1.566 5.589e-004 -1.747e-004 -7.335e-004 4.721e-004 -
1.825e-004 -6.547e-004 0.000e+000 -2.679e-005 -2.679e-005 elocal
64 -5.289 -3.908 -1.253 5.705e-004 3.766e-004 -1.983e-004 4.483e-004 -
2.478e-004 -2.005e-004 0.000e+000 -4.889e-005 -4.889e-005 elocal
65 -5.570 -4.111 -1.566 6.552e-004 4.100e-004 -2.452e-004 1.551e-004 -
7.017e-005 -8.497e-005 0.000e+000 6.099e-007 6.099e-007 elocal
66 -5.456 -4.289 -1.253 6.730e-004 4.296e-004 -2.433e-004 1.693e-004 -
9.523e-005 -7.411e-005 0.000e+000 4.913e-005 4.913e-005 elocal
67 -5.617 -4.492 -1.566 6.416e-004 4.188e-004 -2.228e-004 2.671e-004 -
1.496e-004 -1.175e-004 0.000e+000 4.050e-006 4.050e-006 elocal
68 -5.549 -4.694 -1.253 6.666e-004 -2.328e-004 -8.994e-004 2.885e-004 -
1.291e-004 -4.176e-004 0.000e+000 4.659e-005 4.659e-005 elocal
69 -5.807 -5.159 -1.566 6.320e-004 -2.175e-004 -8.494e-004 3.075e-004 -
1.315e-004 -4.390e-004 0.000e+000 1.411e-006 1.411e-006 elocal
70 -5.789 -5.527 -1.253 6.561e-004 -2.296e-004 -8.857e-004 3.176e-004 -
1.376e-004 -4.551e-004 0.000e+000 -2.513e-005 -2.513e-005 elocal
71 -6.093 -6.159 -1.566 5.672e-004 3.706e-004 -1.966e-004 3.014e-004 -
1.760e-004 -1.255e-004 0.000e+000 1.758e-005 1.758e-005 elocal

100 -5.579 -3.316 -2.506 4.747e-004 3.410e-004 -1.337e-004 4.368e-004
3.054e-004 -1.314e-004 0.000e+000 3.914e-005 3.914e-005 elocal
101 -5.631 -3.589 -2.192 4.969e-004 -1.581e-004 -6.551e-004 4.113e-004 -
1.417e-004 -5.530e-004 0.000e+000 2.440e-005 2.440e-005 elocal
102 -5.912 -3.864 -2.506 5.580e-004 3.570e-004 -2.010e-004 1.494e-004 -
5.458e-005 -9.486e-005 0.000e+000 6.721e-005 6.721e-005 elocal
103 -5.798 -4.113 -2.192 5.879e-004 3.824e-004 -2.056e-004 1.629e-004 -
7.765e-005 -8.523e-005 0.000e+000 3.516e-005 3.516e-005 elocal
104 -5.959 -4.388 -2.506 5.443e-004 3.666e-004 -1.777e-004 2.517e-004 -
1.490e-004 -1.027e-004 0.000e+000 6.383e-005 6.383e-005 elocal
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1.582e-004 -1.131e-004 0.000e+000 3.436e-005 3.436e-005 elocal
106 -6.149 -5.054 -2.506 5.303e-004 3.560e-004 -1.744e-004 2.865e-004 -
1.720e-004 -1.144e-004 0.000e+000 6.525e-005 6.525e-005 elocal
107 -6.131 -5.423 -2.192 5.586e-004 3.698e-004 -1.887e-004 2.979e-004 -
1.778e-004 -1.201e-004 0.000e+000 4.778e-005 4.778e-005 elocal
108 -6.435 -6.054 -2.506 4.839e-004 -1.630e-004 -6.469e-004 2.979e-004 -
1.073e-004 -3.871e-004 0.000e+000 7.054e-005 7.054e-005 elocal
109 -6.415 -6.423 -2.192 4.891e-004 3.203e-004 -1.688e-004 2.743e-004 -
1.686e-004 -1.058e-004 0.000e+000 5.707e-005 5.707e-005 elocal
110 -6.719 -7.054 -2.506 3.656e-004 2.433e-004 -1.223e-004 2.278e-004 -
1.480e-004 -7.979e-005 0.000e+000 7.415e-005 7.415e-005 elocal
111 -6.701 -7.423 -2.192 3.271e-004 2.176e-004 -1.095e-004 1.899e-004 -
1.255e-004 -6.438e-005 0.000e+000 6.700e-005 6.700e-005 elocal
112 -3.954 5.667 -3.446 2.825e-004 -9.104e-005 -3.735e-004 -3.140e-008
2.042e-005 2.045e-005 0.000e+000 4.410e-005 4.410e-005 elocal
113 -3.840 5.333 -3.132 3.600e-004 -1.228e-004 -4.828e-004 1.165e-005
2.001e-005 8.363e-006 0.000e+000 3.384e-005 3.384e-005 elocal
114 -3.954 4.667 -3.446 4.176e-004 -1.394e-004 -5.570e-004 2.127e-005
1.177e-005 -9.496e-006 0.000e+000 5.869e-005 5.869e-005 elocal
115 -3.840 4.333 -3.132 4.867e-004 -1.649e-004 -6.516e-004 3.764e-005
1.050e-005 -2.714e-005 0.000e+000 4.436e-005 4.436e-005 elocal
116 -3.954 3.667 -3.446 4.883e-004 -1.539e-004 -6.422e-004 5.347e-005
1.837e-006 -5.164e-005 0.000e+000 7.326e-005 7.326e-005 elocal
117 -3.840 3.333 -3.132 5.575e-004 -1.773e-004 -7.348e-004 7.650e-005
6.255e-007 -7.587e-005 0.000e+000 5.735e-005 5.735e-005 elocal
118 -4.054 2.780 -3.446 5.005e-004 3.390e-004 -1.615e-004 2.060e-004
1.798e-004 -2.623e-005 0.000e+000 6.962e-005 6.962e-005 elocal
119 -4.040 2.532 -3.132 5.604e-004 -1.918e-004 -7.523e-004 2.155e-004 -
3.854e-005 -2.541e-004 0.000e+000 5.369e-005 5.369e-005 elocal
120 -4.254 2.146 -3.446 5.412e-004 3.584e-004 -1.828e-004 9.370e-005
6.389e-005 -2.981e-005 0.000e+000 1.038e-004 1.038e-004 elocal
121 -4.140 1.951 -3.132 5.867e-004 -1.998e-004 -7.865e-004 9.252e-005 -
1.976e-005 -1.123e-004 0.000e+000 7.916e-005 7.916e-005 elocal
122 -4.254 1.699 -3.446 5.490e-004 3.716e-004 -1.774e-004 8.386e-005
6.595e-005 -1.791e-005 0.000e+000 1.098e-004 1.098e-004 elocal
123 -4.140 1.585 -3.132 5.768e-004 -1.873e-004 -7.640e-004 8.410e-005 -
1.075e-005 -9.484e-005 0.000e+000 8.207e-005 8.207e-005 elocal
124 -4.254 1.167 -3.446 5.469e-004 3.788e-004 -1.681e-004 7.662e-005
6.845e-005 -8.167e-006 0.000e+000 1.094e-004 1.094e-004 elocal
125 -4.140 0.833 -3.132 6.178e-004 -1.951e-004 -8.129e-004 9.061e-005 -
4.846e-006 -9.545e-005 0.000e+000 8.998e-005 8.998e-005 elocal
126 -4.254 0.167 -3.446 5.684e-004 4.049e-004 -1.636e-004 9.198e-005
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72 -6.073 -6.527 -1.253 5.628e-004 -1.990e-004 -7.619e-004 2.920e-004 -
1.247e-004 -4.167e-004 0.000e+000 -3.633e-007 -3.633e-007 elocal
73 -6.377 -7.159 -1.566 4.126e-004 2.707e-004 -1.419e-004 2.457e-004
1.476e-004 -9.810e-005 0.000e+000 3.841e-005 3.841e-005 elocal
74 -6.359 -7.527 -1.253 3.602e-004 -1.248e-004 -4.850e-004 2.023e-004 -
8.332e-005 -2.856e-004 0.000e+000 3.273e-005 3.273e-005 elocal
75 -3.612 5.667 -2.506 3.537e-004 2.277e-004 -1.260e-004 1.278e-006
3.783e-005 3.655e-005 0.000e+000 1.235e-005 1.235e-005 elocal
76 -3.498 5.333 -2.192 4.415e-004 2.798e-004 -1.617e-004 1.296e-005
5.211e-005 3.914e-005 0.000e+000 -9.359e-006 -9.359e-006 elocal
77 -3.612 4.667 -2.506 5.387e-004 3.438e-004 -1.949e-004 2.722e-005
5.456e-005 2.734e-005 0.000e+000 1.532e-005 1.532e-005 elocal
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7.304e-005 2.873e-005 0.000e+000 -1.254e-005 -1.254e-005 elocal
79 -3.612 3.667 -2.506 6.380e-004 4.186e-004 -2.194e-004 6.598e-005
8.114e-005 1.517e-005 0.000e+000 2.157e-005 2.157e-005 elocal
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1.055e-004 1.572e-005 0.000e+000 -9.037e-006 -9.037e-006 elocal
81 -3.712 2.752 -2.506 6.633e-004 -2.330e-004 -8.963e-004 2.384e-004 -
4.828e-005 -2.867e-004 0.000e+000 1.502e-005 1.502e-005 elocal
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5.953e-005 -3.078e-004 0.000e+000 -1.367e-005 -1.367e-005 elocal
83 -3.912 2.061 -2.506 7.131e-004 4.492e-004 -2.639e-004 1.166e-004
9.459e-005 -2.197e-005 0.000e+000 5.254e-005 5.254e-005 elocal
84 -3.798 1.866 -2.192 7.542e-004 4.762e-004 -2.779e-004 1.151e-004
1.055e-004 -9.656e-006 0.000e+000 1.142e-005 1.142e-005 elocal
85 -3.912 1.642 -2.506 7.270e-004 4.670e-004 -2.600e-004 1.087e-004
9.816e-005 -1.051e-005 0.000e+000 5.796e-005 5.796e-005 elocal
86 -3.798 1.557 -2.192 7.439e-004 4.793e-004 -2.646e-004 1.077e-004
1.063e-004 -1.382e-006 0.000e+000 1.308e-005 1.308e-005 elocal
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1.012e-004 -1.060e-006 0.000e+000 5.583e-005 5.583e-005 elocal
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1.189e-004 4.822e-006 0.000e+000 2.137e-005 2.137e-005 elocal
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1.223e-004 4.963e-006 0.000e+000 5.877e-005 5.877e-005 elocal
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1.461e-004 5.481e-006 0.000e+000 2.263e-005 2.263e-005 elocal
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1.595e-004 -1.101e-006 0.000e+000 6.254e-005 6.254e-005 elocal
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1.814e-004 -1.091e-006 0.000e+000 1.773e-005 1.773e-005 elocal
93 -3.995 -1.248 -2.506 7.108e-004 -1.875e-004 -8.984e-004 3.225e-004 -
4.486e-005 -3.673e-004 0.000e+000 4.072e-005 4.072e-005 elocal
94 -3.965 -1.524 -2.192 7.446e-004 5.557e-004 -1.889e-004 3.341e-004
2.818e-004 -5.226e-005 0.000e+000 1.349e-005 1.349e-005 elocal
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1.814e-004 -3.698e-005 0.000e+000 -4.574e-005 -4.574e-005 elocal
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3.65e-004 -1.157e-004 0.000e+000 -1.048e-004 -1.048e-004 elocal
98 -5.079 -2.816 -2.506 4.903e-004 3.822e-004 -1.080e-004 4.398e-004
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3.292e-004 -1.273e-004 0.000e+000 -9.712e-006 -9.712e-006 elocal

128 -4.254 -0.667 -3.446 5.907e-004 4.354e-004 -1.554e-004 1.398e-004
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2.734e-004 -1.015e-004 0.000e+000 7.193e-005 7.193e-005 elocal
138 -6.254 -3.616 -3.446 4.386e-004 2.921e-004 -1.465e-004 1.385e-004
3.856e-005 -9.989e-005 0.000e+000 1.038e-004 1.038e-004 elocal
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6.098e-005 -9.204e-005 0.000e+000 8.739e-005 8.739e-005 elocal
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9.590e-005 -3.406e-004 0.000e+000 8.384e-005

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156 -4.596 2.231 -4.385 3.270e-004 2.466e-004 -8.031e-005 6.181e-005
 3.500e-005 -2.681e-005 0.000e+000 1.243e-004 1.243e-004 elocal
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23 -2.870 -6.333 -1.566 6.629e-004 3.043e-004 -3.586e-004 2.477e-005
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 29 -3.212 -2.333 -2.506 2.259e-004 3.761e-005 -1.883e-004 -5.622e-005 -
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 30 -3.098 -2.667 -2.193 2.874e-004 -2.158e-004 -5.033e-004 -5.561e-005
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 31 -3.212 -3.333 -2.506 4.023e-004 1.563e-004 -2.460e-004 -4.369e-005 -
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 32 -3.098 -3.667 -2.193 4.604e-004 -2.711e-004 -7.315e-004 -2.460e-005
 2.210e-005 4.670e-005 0.000e+000 -4.695e-005 -4.695e-005 elocal
 33 -3.212 -4.333 -2.506 5.038e-004 2.247e-004 -2.791e-004 -1.620e-005
 2.481e-006 1.868e-005 0.000e+000 -4.033e-007 -4.033e-007 elocal
 34 -3.098 -4.667 -2.193 5.518e-004 -3.023e-004 -8.541e-004 -7.576e-007
 1.591e-005 1.667e-005 0.000e+000 -3.174e-005 -3.174e-005 elocal
 35 -3.212 -5.333 -2.506 5.537e-004 2.535e-004 -3.002e-004 -1.702e-005
 3.604e-006 2.062e-005 0.000e+000 1.530e-005 1.530e-005 elocal
 36 -3.098 -5.667 -2.193 5.960e-004 -3.224e-004 -9.185e-004 -5.646e-006
 1.915e-005 2.480e-005 0.000e+000 -1.722e-005 -1.722e-005 elocal
 37 -3.212 -6.333 -2.506 5.703e-004 2.586e-004 -3.117e-004 -1.739e-005
 1.924e-006 1.931e-005 0.000e+000 1.496e-005 1.496e-005 elocal
 38 -3.098 -6.667 -2.193 6.015e-004 -3.283e-004 -9.298e-004 -2.220e-006
 1.371e-005 1.593e-005 0.000e+000 -1.683e-005 -1.683e-005 elocal
 39 -3.212 -7.333 -2.506 5.360e-004 2.381e-004 -2.978e-004 3.031e-006
 4.233e-006 1.202e-006 0.000e+000 8.462e-006 8.462e-006 elocal
 40 -3.098 -7.667 -2.193 5.428e-004 -3.011e-004 -8.438e-004 1.679e-005 -
 5.267e-006 -2.205e-005 0.000e+000 -1.535e-005 -1.535e-005 elocal
 41 -3.212 -8.333 -2.506 4.120e-004 1.752e-004 -2.369e-004 1.965e-005
 3.322e-006 -1.633e-005 0.000e+000 7.186e-006 7.186e-006 elocal
 42 -3.098 -8.667 -2.193 3.704e-004 -2.159e-004 -5.863e-004 2.035e-005 -
 1.634e-005 -3.669e-005 0.000e+000 -6.991e-006 -6.991e-006 elocal
 43 -3.554 -2.333 -3.446 2.087e-004 -1.485e-004 -3.572e-004 -5.489e-005
 1.557e-005 7.047e-005 0.000e+000 6.271e-005 6.271e-005 elocal
 44 -3.440 -2.667 -3.132 2.627e-004 -1.776e-004 -4.403e-004 -5.281e-005
 2.031e-005 7.312e-005 0.000e+000 3.468e-005 3.468e-005 elocal
 45 -3.554 -3.333 -3.446 3.342e-004 -1.940e-004 -5.282e-004 -4.668e-005
 1.938e-005 6.606e-005 0.000e+000 6.036e-005 6.036e-005 elocal
 46 -3.440 -3.667 -3.132 3.865e-004 -2.210e-004 -6.075e-004 -3.780e-005
 1.965e-005 5.745e-005 0.000e+000 3.633e-005 3.633e-005 elocal
 47 -3.554 -4.333 -3.446 3.986e-004 -2.194e-004 -6.180e-004 -4.074e-005
 1.901e-005 5.975e-005 0.000e+000 7.291e-005 7.291e-005 elocal
 48 -3.440 -4.667 -3.132 4.506e-004 -2.467e-004 -6.972e-004 -3.380e-005
 1.986e-005 5.367e-005 0.000e+000 4.991e-005 4.991e-005 elocal
 49 -3.554 -5.333 -3.446 4.332e-004 -2.384e-004 -6.716e-004 -4.619e-005
 2.274e-005 6.893e-005 0.000e+000 7.840e-005 7.840e-005 elocal
 50 -3.440 -5.667 -3.132 4.844e-004 -2.658e-004 -7.502e-004 -3.949e-005
 2.355e-005 6.303e-005 0.000e+000 5.252e-005 5.252e-005 elocal

OBJECT: irf
 ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT U2(+)	X1C U2(-)	X2C U2(-)	X3C B3	B1 U3(+)	U1(+) U3(-)	U1(-) Coord Sys	B2
1	-2.528	-2.333	-0.626	3.410e-004	-2.734e-004	-6.144e-004	2.674e-005
2	-2.414	-2.667	-0.313	4.320e-004	-2.268e-004	-3.124e-004	7.726e-005
3	-2.528	-3.333	-0.626	5.395e-004	-3.381e-004	-8.776e-004	5.989e-005
4	-2.414	-3.667	-0.313	5.911e-004	-3.669e-004	-9.581e-004	1.064e-004
5	-2.528	-4.333	-0.626	6.476e-004	-3.739e-004	-1.022e-003	1.009e-004
6	-2.414	-4.667	-0.313	6.831e-004	-3.998e-004	-1.083e-003	1.233e-004
7	-2.528	-5.333	-0.626	7.101e-004	-3.979e-004	-1.108e-003	9.463e-005
8	-2.414	-5.667	-0.313	7.342e-004	-4.208e-004	-1.155e-003	9.945e-005
9	-2.528	-6.333	-0.626	7.298e-004	-4.062e-004	-1.136e-003	6.565e-005
10	-2.414	-6.667	-0.313	7.410e-004	-4.213e-004	-1.162e-003	6.108e-005
11	-2.528	-7.333	-0.626	6.805e-004	-3.782e-004	-1.059e-003	4.715e-005
12	-2.414	-7.667	-0.313	6.677e-004	-3.777e-004	-1.045e-003	3.409e-005
13	-2.528	-8.333	-0.626	5.040e-004	-2.874e-004	-7.913e-004	3.853e-005
14	-2.414	-8.667	-0.313	4.379e-004	-2.583e-004	-6.962e-004	1.237e-005
15	-2.870	-2.333	-1.566	2.767e-004	4.622e-005	-2.305e-004	-3.899e-005
16	-2.756	-2.667	-1.253	3.620e-004	-1.322e-004	-1.322e-004	-2.728e-005
17	-2.870	-3.333	-1.566	4.707e-004	1.796e-004	-2.910e-004	-2.629e-005
18	-2.756	-3.667	-1.253	5.325e-004	-3.154e-004	-8.479e-004	1.458e-005
19	-2.870	-4.333	-1.566	5.852e-004	-2.586e-004	-3.266e-004	2.832e-005
20	-2.756	-4.667	-1.253	6.296e-004	-3.477e-004	-9.773e-004	5.298e-005
21	-2.870	-5.333	-1.566	6.457e-004	-2.962e-004	-3.495e-004	3.353e-005
22	-2.756	-5.667	-1.253	6.801e-004	-3.686e-004	-1.049e-003	4.634e-005
23	-2.870	-6.333	-1.566	7.101e-004	-4.208e-004	-1.155e-003	9.945e-005
24	-2.756	-6.667	-1.253	7.298e-004	-4.062e-004	-1.136e-003	6.565e-005
25	-2.870	-7.333	-1.566	7.410e-004	-4.213e-004	-1.162e-003	6.108e-005
26	-2.756	-7.667	-1.253	6.805e-004	-3.782e-004	-1.059e-003	4.715e-005
27	-2.870	-8.333	-1.566	6.677e-004	-3.777e-004	-1.045e-003	3.409e-005
28	-2.756	-8.667	-1.253	5.040e-004	-2.874e-004	-7.913e-004	3.853e-005
29	-2.870	-9.333	-1.566	4.379e-004	-2.583e-004	-6.962e-004	1.237e-005
30	-2.756	-10.000	-1.566	3.620e-004	-1.322e-004	-1.322e-004	-2.728e-005
31	-2.870	-10.667	-1.566	2.767e-004	4.622e-005	-2.305e-004	-3.899e-005
32	-2.756	-11.333	-1.253	1.965e-004	-2.910e-004	-2.629e-005	-2.629e-005
33	-2.870	-12.000	-1.566	1.162e-004	-1.162e-004	-1.162e-004	-1.162e-004
34	-2.756	-12.667	-1.253	6.805e-004	-3.782e-004	-1.059e-003	4.715e-005
35	-2.870	-13.333	-1.566	6.677e-004	-3.777e-004	-1.045e-003	3.409e-005
36	-2.756	-14.000	-1.253	5.040e-004	-2.874e-004	-7.913e-004	3.853e-005
37	-2.870	-14.667	-1.566	4.379e-004	-2.583e-004	-6.962e-004	1.237e-005
38	-2.756	-15.333	-1.253	3.620e-004	-1.322e-004	-1.322e-004	-2.728e-005
39	-2.870	-16.000	-1.566	2.767e-004	4.622e-005	-2.305e-004	-3.899e-005
40	-2.756	-16.667	-1.253	1.965e-004	-2.910e-004	-2.629e-005	-2.629e-005
41	-2.870	-17.333	-1.566	1.162e-004	-1.162e-004	-1.162e-004	-1.162e-004
42	-2.756	-18.000	-1.253	6.805e-004	-3.782e-004	-1.059e-003	4.715e-005
43	-2.870	-18.667	-1.566	6.677e-004	-3.777e-004	-1.045e-003	3.409e-005
44	-2.756	-19.333	-1.253	5.040e-004	-2.874e-004	-7.913e-004	3.853e-005
45	-2.870	-20.000	-1.566	4.379e-004	-2.583e-004	-6.962e-004	1.237e-005
46	-2.756	-20.667	-1.253	3.620e-004	-1.322e-004	-1.322e-004	-2.728e-

100

100

-3.590 -1.990 -0.100 0.939 -0.340 -0.057 8.469e+000 0.318 0.916 -0.243
2.055e+000 0.135 0.210 0.968 -1.977e-001
-3.190 -1.990 -0.100 0.896 0.386 0.219 6.214e+000 -0.430 0.632 0.645
3.713e+000 0.111 -0.672 0.732 -2.931e+000
-2.790 -1.990 -0.100 0.970 0.223 0.093 6.162e+000 -0.238 0.818 0.523
2.121e+000 0.041 -0.530 0.847 -8.180e-001
-2.390 -1.990 -0.100 0.491 0.676 0.550 3.758e+001 -0.862 0.287 0.418
6.509e+000 0.124 -0.679 0.723 -2.778e+001
-1.990 -1.990 -0.100 0.946 -0.312 0.085 6.721e+000 -0.091 -0.005 0.996
-1.454e-001 0.310 0.950 0.034 -4.518e+000
-1.590 -1.990 -0.100 0.981 -0.189 0.032 6.176e+000 -0.033 -0.003 0.999
-2.209e-001 0.189 0.982 0.009 -2.879e+000
-1.190 -1.990 -0.100 0.987 -0.158 0.018 6.165e+000 -0.019 -0.005 1.000
-1.186e-002 0.158 0.987 0.008 -2.310e+000
-0.790 -1.990 -0.100 0.987 -0.158 0.010 6.280e+000 -0.010 -0.001 1.000
-7.378e-003 0.158 0.987 0.003 -1.981e+000
-0.390 -1.990 -0.100 0.989 -0.147 0.003 6.563e+000 -0.005 -0.018 1.000
-2.499e-003 0.147 0.989 0.019 -1.650e+000
0.010 -1.990 -0.100 0.988 -0.155 0.004 6.910e+000 -0.041 -0.231 0.972
2.436e-002 0.151 0.960 0.235 -7.746e-001
0.410 -1.990 -0.100 0.945 -0.328 0.020 8.418e+000 -0.168 -0.431 0.887
1.997e-001 0.282 0.841 0.462 -5.205e-001
0.810 -1.990 -0.100 0.794 -0.600 0.100 1.503e+001 -0.256 -0.180 0.950
9.504e-001 0.552 0.779 0.297 -2.547e+000
1.210 -1.990 -0.100 0.850 0.499 -0.168 6.203e+000 0.029 0.273 0.961
1.166e-001 -0.526 0.822 -0.218 -5.234e+000
1.610 -1.990 -0.100 0.946 0.228 -0.232 4.226e+000 0.022 0.668 0.744
3.492e-001 -0.325 0.708 -0.627 -1.090e+000
2.010 -1.990 -0.100 0.922 0.387 -0.033 2.590e+000 -0.062 0.232 0.971
1.746e-001 -0.383 0.892 -0.238 -7.196e-001
2.410 -1.990 -0.100 0.945 0.324 0.037 3.161e+000 -0.022 -0.050 0.998
-8.365e-003 -0.325 0.945 0.040 -1.732e+000
2.810 -1.990 -0.100 0.970 0.241 0.030 3.034e+000 -0.020 -0.042 0.999
-5.538e-003 -0.242 0.970 0.036 -1.395e+000
3.210 -1.990 -0.100 0.977 0.213 0.027 3.285e+000 -0.017 -0.048 0.999
-1.117e-003 -0.214 0.976 0.043 -1.140e+000
3.610 -1.990 -0.100 0.980 0.195 0.025 3.718e+000 -0.015 -0.053 0.998
-1.991e-004 -0.196 0.979 0.049 -9.853e-001
4.010 -1.990 -0.100 0.984 0.178 0.023 4.208e+000 -0.013 -0.056 0.998
-2.061e-004 -0.179 0.982 0.052 -8.713e-001
-3.990 -1.990 -0.100 0.982 -0.186 -0.036 1.038e+001 0.185 0.982 -0.042
1.856e+000 0.043 0.035 0.998 -6.831e-002
-3.590 -1.990 -0.100 0.937 -0.335 -0.099 7.883e+000 0.334 0.942 -0.020
1.989e+000 0.100 -0.014 0.995 -1.050e-001
-3.190 -1.990 -0.100 0.844 -0.515 -0.148 5.106e+000 0.536 0.814 0.224
1.808e+000 0.005 -0.269 0.963 -1.377e-001
-2.790 -1.990 -0.100 0.839 0.528 0.134 5.177e+000 -0.532 0.847 -0.005
2.567e+000 -0.116 -0.067 0.991 -8.279e-002
-2.390 -1.990 -0.100 0.880 0.473 0.048 9.978e+000 0.274 -0.586 0.762
7.829e-001 -0.389 0.658 0.645 -1.162e+000
-1.990 -1.990 -0.100 0.994 0.113 0.001 9.839e+000 0.010 -0.100 0.995
5.217e-002 -0.113 0.989 0.100 -3.590e+000
-1.590 -1.990 -0.100 1.000 -0.023 0.009 7.699e+000 -0.010 -0.034 0.999
-1.420e-003 0.023 0.999 0.034 -3.075e+000
-1.190 -1.990 -0.100 0.998 -0.063 0.014 6.622e+000 -0.016 -0.037 0.999
-5.811e-003 0.063 0.997 0.038 -2.352e+000

-0.790 -1.590 -0.100 0.993 -0.120 0.022 6.069e+000 -0.026 -0.032 0.999
-1.581e-002 0.119 0.992 0.035 -1.858e+000
-0.390 -1.590 -0.100 0.984 -0.176 0.013 6.240e+000 -0.013 -0.000 1.000
-2.470e-002 0.176 0.984 0.002 -1.985e+000
0.010 -1.590 -0.100 0.989 -0.148 -0.002 6.674e+000 -0.022 -0.162 0.986
8.199e-002 0.147 0.976 0.164 -1.745e+000
0.410 -1.590 -0.100 0.948 -0.270 0.170 9.945e+000 0.296 0.942 -0.156
1.883e+000 -0.118 0.198 0.973 -3.860e-001
0.810 -1.590 -0.100 0.974 0.161 -0.159 6.059e+000 0.135 0.150 0.979
-1.300e-001 -0.181 0.975 -0.125 -3.309e+000
1.210 -1.590 -0.100 0.973 -0.059 -0.222 2.934e+000 0.222 -0.003 0.975
-1.607e-001 0.058 0.998 -0.010 -1.758e+000
1.610 -1.590 -0.100 0.669 0.735 -0.099 2.196e+000 0.715 -0.675 -0.182
1.658e+000 0.200 -0.051 0.978 3.833e-002
2.010 -1.590 -0.100 0.726 0.213 0.654 6.080e-001 -0.616 -0.223 0.756
-4.435e-001 -0.307 0.951 0.031 -2.607e+000
2.410 -1.590 -0.100 0.926 0.361 0.109 1.726e+000 -0.085 -0.081 0.993
-3.225e-002 -0.368 0.929 0.045 -1.373e+000
2.810 -1.590 -0.100 0.965 0.260 0.045 2.505e+000 -0.031 -0.058 0.998
-5.778e-003 -0.262 0.964 0.048 -1.276e+000
3.210 -1.590 -0.100 0.978 0.206 0.034 3.013e+000 -0.023 -0.054 0.998
-1.313e-003 -0.208 0.977 0.048 -1.164e+000
3.610 -1.590 -0.100 0.983 0.179 0.030 3.505e+000 -0.021 -0.053 0.998
-7.951e-004 -0.180 0.982 0.049 -1.044e+000
4.010 -1.590 -0.100 0.987 0.161 0.026 4.008e+000 -0.018 -0.053 0.998
-8.928e-004 -0.162 0.986 0.050 -9.304e-001
-3.990 -1.190 -0.100 0.995 -0.092 -0.030 1.049e+001 0.090 0.995 -0.052
2.016e+000 0.035 0.049 0.998 -5.102e-002
-3.590 -1.190 -0.100 0.995 -0.067 -0.070 7.709e+000 0.064 0.997 -0.036
3.075e+000 0.072 0.031 0.997 -9.185e-002
-3.190 -1.190 -0.100 -0.439 0.898 -0.031 3.985e+000 0.882 0.437 0.178
2.359e+000 -0.173 -0.051 0.984 -4.446e-001
-2.790 -1.190 -0.100 0.938 0.340 0.064 4.568e+000 -0.342 0.940 0.011
9.794e-001 -0.056 -0.032 0.998 -7.159e-003
-2.390 -1.190 -0.100 0.937 0.349 0.021 7.177e+000 0.082 -0.280 0.957
8.438e-002 -0.339 0.895 0.291 -8.224e-001
-1.990 -1.190 -0.100 0.980 0.199 0.005 8.180e+000 0.011 -0.079 0.997
1.898e-002 -0.199 0.977 0.080 -2.433e+000
-1.590 -1.190 -0.100 0.995 0.096 0.001 7.744e+000 0.003 -0.045 0.999
3.817e-003 -0.096 0.994 0.046 -2.878e+000
-1.190 -1.190 -0.100 0.998 0.066 0.000 6.860e+000 0.004 -0.067 0.998
8.489e-003 -0.066 0.996 0.068 -2.651e+000
-0.790 -1.190 -0.100 0.998 0.066 0.014 5.521e+000 -0.002 -0.174 0.985
4.406e-002 -0.067 0.983 0.173 -2.010e+000
-0.390 -1.190 -0.100 0.982 -0.140 0.130 3.967e+000 -0.156 -0.196 0.968
-9.340e-002 0.110 0.971 0.215 -1.508e+000
0.010 -1.190 -0.100 0.994 -0.087 0.067 4.350e+000 -0.058 0.105 0.993
9.257e-002 0.093 0.991 -0.099 -2.768e+000
0.410 -1.190 -0.100 0.964 -0.019 -0.265 2.384e+000 0.266 0.032 0.964
-1.556e-001 0.010 0.999 -0.036 -2.184e+000
0.810 -1.190 -0.100 0.986 -0.091 -0.142 2.609e+000 0.140 -0.030 0.990
-1.208e-002 0.095 0.995 0.016 -1.571e+000
1.210 -1.190 -0.100 0.975 -0.140 -0.173 2.729e+000 0.165 -0.066 0.984
-7.405e-002 0.149 0.988 0.041 -9.735e-001
1.610 -1.190 -0.100 0.474 0.863 -0.173 1.075e+000 0.813 -0.505 -0.291
7.185e-001 0.339 0.003 0.941 -5.454e-002

2.010 -1.190 -0.100 0.941 0.339 -0.029 1.280e+000 0.020 0.027 0.999
2.413e-002 -0.339 0.941 -0.019 -1.288e+000
2.410 -1.190 -0.100 0.972 0.217 0.092 1.450e+000 -0.088 -0.031 0.996
-1.380e-002 -0.219 0.976 0.011 -1.224e+000
2.810 -1.190 -0.100 0.976 0.209 0.058 2.153e+000 -0.048 -0.052 0.997
-5.946e-003 -0.212 0.976 0.041 -1.243e+000
3.210 -1.190 -0.100 0.982 0.184 0.043 2.757e+000 -0.034 -0.052 0.998
-2.581e-003 -0.186 0.981 0.045 -1.207e+000
3.610 -1.190 -0.100 0.986 0.164 0.035 3.300e+000 -0.027 -0.050 0.998
-1.963e-003 -0.165 0.985 0.045 -1.115e+000
4.010 -1.190 -0.100 0.989 0.147 0.030 3.823e+000 -0.023 -0.049 0.999
-1.842e-003 -0.149 0.988 0.045 -1.001e+000
-3.990 -0.790 -0.100 0.998 -0.060 -0.031 1.126e+001 0.059 0.997 -0.054
1.437e+000 0.034 0.052 0.998 -3.747e-002
-3.590 -0.790 -0.100 0.997 -0.018 -0.079 9.791e+000 0.015 0.999 -0.042
1.785e+000 0.080 0.041 0.996 -1.087e-001
-3.190 -0.790 -0.100 0.978 -0.149 -0.143 7.846e+000 0.153 0.988 0.013
2.929e+000 0.139 -0.035 0.990 -1.035e-002
-2.790 -0.790 -0.100 0.988 0.151 -0.030 6.213e+000 -0.026 0.349 0.937
9.340e-002 -0.152 0.925 -0.349 -2.280e-001
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1.898e-002 -0.230 0.969 0.091 -1.038e+000
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3.635e-003 -0.173 0.984 0.048 -2.064e+000
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-4.880e-004 -0.114 0.993 0.030 -2.853e+000
-1.190 -0.790 -0.100 0.995 0.101 -0.018 7.477e+000 0.021 -0.036 0.999
8.786e-004 -0.100 0.994 0.037 -3.471e+000
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4.028e-003 -0.149 0.986 0.077 -4.258e+000
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1.224e-001 -0.284 0.936 0.207 -6.117e+000
0.010 -0.790 -0.100 -0.384 0.916 0.118 1.718e+001 0.634 0.168 0.755
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0.410 -0.790 -0.100 0.982 -0.178 -0.065 4.927e+000 0.088 0.123 0.988
2.539e-002 0.168 0.976 -0.137 -8.972e-001
0.810 -0.790 -0.100 0.966 -0.251 -0.061 4.178e+000 0.081 0.069 0.994
-3.198e-003 0.245 0.966 -0.087 -1.622e+000
1.210 -0.790 -0.100 0.961 -0.244 -0.127 3.522e+000 0.146 0.063 0.987
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1.610 -0.790 -0.100 0.918 0.159 -0.365 2.471e+000 -0.173 0.985 -0.023
3.470e-001 0.356 0.085 0.931 -4.279e-001
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2.410 -0.790 -0.100 0.982 0.170 0.080 1.536e+000 -0.076 -0.027 0.997
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2.810 -0.790 -0.100 0.982 0.177 0.064 2.022e+000 -0.058 -0.040 0.998
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3.210 -0.790 -0.100 0.985 0.167 0.050 2.566e+000 -0.043 -0.045 0.998
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3.610 -0.790 -0.100 0.988 0.152 0.041 3.111e+000 -0.034 -0.045 0.998
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4.010 -0.790 -0.100 0.990 0.137 0.033 3.645e+000 -0.028 -0.044 0.999
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1.168e+000 0.028 0.002 1.000 -2.871e-002

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1.507e+000 0.066 -0.011 0.998 -9.715e-002
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2.391e+000 0.133 0.114 0.985 -5.141e-003
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5.612e-002 -0.143 0.976 -0.167 -5.061e-001
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1.015e-002 -0.152 0.987 0.049 -1.099e+000
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0.010 -0.390 -0.100 0.978 -0.197 -0.063 5.995e+000 0.202 0.838 0.506
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0.410 -0.390 -0.100 0.984 -0.175 -0.023 5.084e+000 0.174 0.934 0.312
4.272e-001 -0.033 -0.311 0.950 -4.342e-002
0.810 -0.390 -0.100 0.978 -0.209 -0.025 4.029e+000 0.086 0.288 0.954
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1.210 -0.390 -0.100 0.933 -0.356 -0.060 2.673e+000 0.173 0.294 0.940
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1.610 -0.390 -0.100 0.400 -0.038 0.916 -3.078e-002 0.834 0.429 -0.347
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2.810 -0.390 -0.100 0.982 0.175 0.069 1.844e+000 -0.064 -0.031 0.997
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3.210 -0.390 -0.100 0.985 0.162 0.057 2.367e+000 -0.051 -0.039 0.998
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3.610 -0.390 -0.100 0.988 0.146 0.046 2.915e+000 -0.040 -0.040 0.998
-4.648e-003 -0.148 0.988 0.034 -1.280e+000
4.010 -0.390 -0.100 0.991 0.131 0.037 3.461e+000 -0.032 -0.040 0.999
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1.188e+000 0.022 -0.019 1.000 -2.909e-002
-3.590 0.010 -0.100 0.995 -0.081 -0.057 9.840e+000 0.083 0.996 0.025
1.501e+000 0.055 -0.030 0.998 -9.480e-002
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1.000e+000 0.151 -0.171 0.974 -2.244e-001
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8.622e-002 -0.051 0.992 0.116 -6.251e-001
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-9.928e-003 0.039 0.999 -0.025 -2.984e+000

-0.790 0.010 -0.100 0.992 -0.118 -0.031 7.177e+000 0.035 0.033 0.999
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0.010 0.010 -0.100 0.000 0.000 0.000 0.00e+002 0.000 0.000 0.000
0.00e+002 0.000 0.000 0.000 0.00e+002
0.410 0.010 -0.100 0.990 0.138 -0.008 4.492e+000 -0.136 0.980 0.145
6.771e-001 0.028 -0.142 0.989 -8.555e-003
0.810 0.010 -0.100 0.999 0.038 -0.003 3.187e+000 -0.037 0.988 0.153
3.739e-001 0.008 -0.152 0.988 -2.656e-002
1.210 0.010 -0.100 0.998 -0.002 -0.056 2.277e+000 0.020 0.945 0.328
1.294e-001 0.052 -0.328 0.943 -5.924e-002
1.610 0.010 -0.100 0.969 -0.019 -0.244 1.661e+000 0.241 0.255 0.936
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2.010 0.010 -0.100 0.993 -0.114 0.001 8.979e-001 0.011 0.106 0.994
2.213e-002 0.113 0.988 -0.106 -8.294e-001
2.410 0.010 -0.100 0.988 0.141 0.058 1.123e+000 -0.061 0.021 0.998
9.689e-003 -0.140 0.990 -0.030 -1.369e+000
2.810 0.010 -0.100 0.982 0.172 0.076 1.571e+000 -0.072 -0.025 0.997
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3.210 0.010 -0.100 0.985 0.159 0.064 2.119e+000 -0.060 -0.034 0.998
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3.610 0.010 -0.100 0.989 0.142 0.052 2.694e+000 -0.047 -0.036 0.998
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4.010 0.010 -0.100 0.991 0.125 0.041 3.263e+000 -0.037 -0.036 0.999
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1.101e+000 0.020 -0.012 1.000 -2.989e-002
-3.590 0.410 -0.100 0.997 -0.052 -0.053 1.006e+001 0.051 0.998 -0.020
1.217e+000 0.054 0.017 0.998 -7.733e-002
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1.551e+000 0.061 0.114 0.992 -2.869e-001
-2.790 0.410 -0.100 0.999 0.013 0.032 5.304e+000 -0.032 0.031 0.999
-4.182e-002 -0.012 0.999 -0.031 -1.191e+000
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-1.965e-003 -0.022 1.000 0.009 -1.169e+000
-1.990 0.410 -0.100 1.000 0.010 0.022 6.163e+000 -0.022 0.002 1.000
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-1.590 0.410 -0.100 1.000 -0.014 0.012 6.672e+000 -0.012 0.015 1.000
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-7.699e-002 0.168 0.986 -0.005 -3.778e+000
0.010 0.410 -0.100 0.983 -0.435 -0.179 4.442e+000 0.195 -0.009 0.981
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0.410 0.410 -0.100 0.991 -0.132 -0.014 1.797e+000 0.133 0.984 0.115
8.509e-001 -0.001 -0.116 0.993 5.233e-003
0.810 0.410 -0.100 0.973 0.230 -0.004 2.235e+000 -0.229 0.972 0.054
7.205e-001 0.016 -0.052 0.999 -1.328e-002
1.210 0.410 -0.100 0.995 0.073 -0.068 1.934e+000 -0.069 0.996 0.061
4.961e-001 0.072 -0.056 0.996 -2.687e-002
1.610 0.410 -0.100 0.973 -0.223 -0.063 1.385e+000 0.213 0.967 -0.136
1.133e-001 0.091 0.119 0.989 1.386e-002

-3.590 1.210 -0.100 0.997 -0.052 -0.052 1.055e+001 0.050 0.998 -0.041
3.364e-001 0.054 0.039 0.998 -8.145e-002
-3.190 1.210 -0.100 0.988 -0.026 -0.152 7.684e+000 0.092 0.889 0.448
2.159e-001 0.123 -0.457 0.881 -8.444e-001
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8.750e-002 0.037 0.978 0.207 -8.521e-001
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-4.049e-003 0.036 0.999 0.013 -1.245e+000
-1.990 1.210 -0.100 1.000 -0.018 0.024 6.447e+000 -0.024 -0.008 1.000
-1.061e-002 0.018 1.000 0.009 -1.438e+000
-1.590 1.210 -0.100 1.000 -0.017 0.014 6.864e+000 -0.015 -0.009 1.000
-1.127e-002 0.017 1.000 0.009 -1.538e+000
-1.190 1.210 -0.100 1.000 -0.028 0.004 7.072e+000 -0.004 -0.012 1.000
-1.118e-002 0.028 1.000 0.012 -1.660e+000
-0.790 1.210 -0.100 0.999 -0.049 -0.009 6.984e+000 0.009 -0.016 1.000
-1.353e-002 0.049 0.999 0.015 -1.799e+000
-0.390 1.210 -0.100 0.997 -0.071 -0.032 6.433e+000 0.030 -0.021 0.999
-2.972e-002 0.071 0.997 0.018 -1.818e+000
0.010 1.210 -0.100 0.995 -0.057 -0.087 5.429e+000 0.084 -0.058 0.995
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0.410 1.210 -0.100 0.931 -0.295 -0.216 5.000e+000 0.333 0.442 0.833
1.946e-001 0.150 0.847 -0.510 -6.064e-001
0.810 1.210 -0.100 0.996 -0.066 -0.051 2.581e+000 0.065 0.998 -0.015
8.759e-001 0.052 0.012 0.999 -1.640e-003
1.210 1.210 -0.100 0.997 0.042 -0.071 1.838e+000 -0.039 0.999 0.036
9.496e-001 0.072 -0.033 0.997 -2.167e-002
1.610 1.210 -0.100 0.852 0.508 -0.123 1.193e+000 -0.489 0.858 0.160
9.051e-001 0.187 -0.076 0.979 -6.165e-002
2.010 1.210 -0.100 -0.394 0.915 0.090 1.149e+000 -0.008 -0.101 0.995
3.592e-002 0.919 0.391 0.047 -7.176e-002
2.410 1.210 -0.100 0.982 -0.151 -0.110 6.948e-001 0.122 0.068 0.990
4.894e-002 0.142 0.986 -0.085 -1.853e+000
2.810 1.210 -0.100 0.990 0.065 0.129 7.368e-001 -0.130 0.010 0.991
1.885e-004 -0.063 0.998 -0.018 -1.699e+000
3.810 1.210 -0.100 0.990 0.096 0.102 1.327e+000 -0.101 -0.014 0.995
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3.610 1.210 -0.100 0.992 0.099 0.073 1.984e+000 -0.071 -0.020 0.997
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4.010 1.210 -0.100 0.994 0.090 0.054 2.635e+000 -0.053 -0.022 0.998
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4.543e-001 0.017 -0.026 0.999 -3.053e-002
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1.037e-001 -0.018 0.954 0.298 -1.076e+000
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1.066e-002 0.031 1.000 -0.005 -6.919e-001
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9.246e-004 0.024 1.000 0.007 -1.517e+000
-1.990 1.610 -0.100 1.000 -0.011 0.022 6.593e+000 -0.022 -0.014 1.000
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-1.590 1.610 -0.100 1.000 -0.021 0.013 6.964e+000 -0.013 -0.013 1.000
-1.010e-002 0.021 1.000 0.013 -1.517e+000
-1.190 1.610 -0.100 0.999 -0.040 0.002 7.246e+000 -0.002 -0.010 1.000
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2.010 0.410 -0.100 0.767 0.094 -0.634 1.749e+000 0.596 0.262 0.759
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2.410 0.410 -0.100 0.986 0.161 0.045 7.232e-001 -0.048 0.018 0.999
2.229e-002 -0.160 0.987 -0.026 -1.423e+000
2.810 0.410 -0.100 0.984 0.154 0.093 1.235e+000 -0.091 -0.020 0.996
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3.210 0.410 -0.100 0.986 0.148 0.075 1.841e+000 -0.071 -0.030 0.997
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3.610 0.410 -0.100 0.989 0.134 0.058 2.454e+000 -0.054 -0.032 0.998
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4.010 0.410 -0.100 0.992 0.118 0.045 3.053e+000 -0.042 -0.032 0.999
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3.990 0.810 -0.100 0.997 -0.081 -0.021 1.177e+001 0.081 0.997 0.003
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7.572e-001 0.056 -0.013 0.998 -9.576e-002
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1.204e-001 0.141 -0.107 0.984 -7.811e-002
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2.181e-004 0.007 1.000 0.018 -1.143e+000
-1.990 0.810 -0.100 1.000 -0.010 0.024 6.232e+000 -0.024 -0.002 1.000
-1.084e-002 0.010 1.000 0.003 -1.376e+000
-1.590 0.810 -0.100 1.000 -0.017 0.015 6.692e+000 -0.015 0.003 1.000
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0.010 0.810 -0.100 0.958 -0.287 -0.022 3.810e+000 0.052 0.098 0.994
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0.810 0.810 -0.100 0.996 -0.059 -0.068 1.799e+000 0.063 0.996 0.059
1.052e+000 0.064 -0.063 0.996 -8.185e-003
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1.610 0.810 -0.100 0.854 -0.435 -0.285 8.205e-001 0.442 0.896 -0.044
6.445e-001 0.274 -0.088 0.958 -6.703e-002
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4.010 0.810 -0.100 0.993 0.107 0.050 2.839e+000 -0.047 -0.027 0.999
-6.877e-003 -0.108 0.994 0.022 -1.259e+000
-3.990 1.210 -0.100 0.996 -0.089 -0.020 1.190e+001 0.089 0.996 -0.002
6.208e-001 0.021 0.000 1.000 -3.044e-002

-0.790 1.610 -0.100 0.998 -0.064 -0.012 7.298e+000 0.012 -0.007 1.000
-1.073e-002 0.064 0.998 0.006 -1.640e+000
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0.010 1.610 -0.100 0.989 -0.124 -0.077 6.144e+000 0.082 0.042 0.996
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1.097e+000 0.153 -0.019 0.988 -5.160e-002
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1.249e-001 -0.093 -0.656 0.749 -2.320e-001
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1.224e-001 0.322 0.884 -0.339 -4.294e+000
-2.790 2.010 -0.100 0.994 0.112 -0.015 6.888e+000 0.013 0.014 1.000
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0.010 2.010 -0.100 0.987 -0.151 -0.055 6.359e+000 0.073 0.114 0.991
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0.410 2.010 -0.100 0.982 -0.122 -0.143 4.634e+000 0.185 0.474 0.861
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5.951e-001 0.061 0.159 0.985 1.593e-002
1.210 2.010 -0.100 0.997 0.070 -0.038 2.055e+000 -0.070 0.998 0.005
1.087e+000 0.039 -0.003 0.999 -1.583e-002
1.610 2.010 -0.100 0.858 0.506 -0.089 1.505e+000 -0.499 0.862 0.091
1.408e+000 0.123 -0.034 0.992 -4.628e-002

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2.010 2.010 -0.100 -0.077 0.996 0.038 1.583e+000 0.883 0.086 -0.461
3.570e-001 0.463 0.002 0.886 -7.993e-002
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9.590e-004 0.530 0.832 -0.164 -1.262e+000
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1.218e-002 0.006 1.000 0.026 -1.620e+000
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1.335e+000 0.086 0.000 0.996 -3.859e-002
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1.091e+000 -0.540 -0.120 0.833 -3.912e-001
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3.210 2.410 -0.100 0.991 -0.073 0.114 8.859e-001 -0.112 0.030 0.993
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-1.197e+000 0.498 0.862 -0.098 -3.039e+000
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7.090e-003 0.136 0.943 -0.304 -4.239e-001
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1.210 2.810 -0.100 0.999 0.028 -0.039 2.653e+000 -0.032 0.995 -0.099
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1.610 2.810 -0.100 0.986 -0.148 -0.073 2.325e+000 0.146 0.989 -0.023
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5.232e-001 0.330 0.027 0.944 -4.165e-002
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2.450e-002 0.285 0.957 -0.053 -2.072e+000
3.210 2.810 -0.100 0.988 -0.141 0.060 1.130e+000 -0.056 0.033 0.998
9.168e-003 0.143 0.989 -0.025 -1.937e+000
3.610 2.810 -0.100 0.994 -0.068 0.081 1.567e+000 -0.080 0.017 0.997
-6.798e-003 0.069 0.998 -0.011 -1.625e+000
4.010 2.810 -0.100 0.997 -0.047 0.063 2.185e+000 -0.063 0.009 0.998
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-3.590 3.210 -0.100 0.999 -0.032 -0.035 1.178e+001 0.030 0.998 -0.059
1.451e-001 0.037 0.058 0.998 -4.955e-002
-3.190 3.210 -0.100 0.996 -0.027 -0.091 1.051e+001 0.066 0.880 0.471
1.161e-001 0.067 -0.475 0.877 -1.959e-001
-2.790 3.210 -0.100 0.988 0.125 -0.090 7.882e+000 -0.129 0.991 -0.040
1.601e+000 0.084 0.051 0.995 8.240e-002
-2.390 3.210 -0.100 0.992 -0.123 -0.010 5.895e+000 0.003 -0.057 0.998
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8.013e-001 0.024 0.152 0.988 -4.751e-002
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1.245e+000 0.055 0.029 0.998 -2.748e-002
2.010 3.210 -0.100 -0.689 0.721 0.076 2.292e+000 0.713 0.693 -0.107
1.577e+000 0.130 0.020 0.991 -6.709e-002
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5.726e-002 0.253 0.964 -0.080 -2.605e+000
3.210 3.210 -0.100 0.992 -0.117 0.050 1.154e+000 -0.047 0.025 0.999
1.304e-002 0.119 0.993 -0.019 -2.031e+000
3.610 3.210 -0.100 0.992 -0.100 0.076 1.593e+000 -0.074 0.021 0.997
-4.955e-003 0.101 0.995 -0.014 -1.682e+000
4.010 3.210 -0.100 0.995 -0.076 0.061 2.201e+000 -0.060 0.016 0.998
-7.423e-003 0.077 0.997 -0.011 -1.401e+000
-3.990 3.610 -0.100 0.997 -0.079 -0.015 1.271e+001 0.078 0.994 -0.071
1.572e-001 0.020 0.070 0.997 -1.196e-002
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1.553e-001 0.016 -0.167 0.986 -4.303e-002
-3.190 3.610 -0.100 0.995 -0.071 -0.069 1.017e+001 0.083 0.976 0.202
5.450e-001 0.053 -0.207 0.977 -1.536e-001
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5.996e-002 0.098 0.982 0.164 -1.566e+000
-1.990 3.610 -0.100 0.975 -0.219 0.032 5.990e+000 -0.035 -0.012 0.999
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5.558e-003 0.245 0.957 -0.157 -5.293e-001
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4.924e-001 -0.029 -0.571 0.991 -0.121 -0.050 6.828e+000 0.128 0.812 0.569
0.810 3.610 -0.100 0.987 0.059 0.152 7.049e+000 -0.007 0.946 -0.324
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2.010 3.610 -0.100 0.862 -0.501 -0.078 3.078e+000 0.488 0.862 -0.140
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1.323e+000 0.370 0.263 0.891 -1.596e-001
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4.010 3.610 -0.100 0.992 -0.111 0.057 2.276e+000 -0.055 0.021 0.998
-6.201e-003 0.112 0.994 -0.015 -1.448e+000
-3.990 4.010 -0.100 0.994 -0.106 -0.014 1.275e+001 0.107 0.988 0.107
1.260e-001 0.002 -0.108 0.994 -1.112e-002
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 4.155e+000 -0.037 -0.068 0.997 -3.825e-002
 -3.190 6.410 -0.100 0.997 -0.042 0.069 1.167e+001 0.039 0.998 0.052
 6.191e+000 -0.071 -0.049 0.996 -1.061e-001
 -2.790 6.410 -0.100 0.965 0.257 0.052 1.591e+001 -0.239 0.944 -0.228
 4.670e+000 -0.108 0.208 0.972 -3.225e-001
 2.390 6.410 -0.100 0.999 -0.037 -0.001 1.708e+001 -0.010 -0.312 0.950
 1.951e-001 0.035 0.949 0.313 -1.544e+000
 -1.990 6.410 -0.100 0.983 -0.185 0

0.790 6.410 -0.100 0.974 -0.225 0.004 1.203e+001 0.219 0.953 0.210
1.327e-001 -0.051 -0.203 0.978 -9.621e-003
-0.390 6.410 -0.100 0.980 -0.200 0.004 1.166e+001 0.200 0.979 0.035
6.529e-001 -0.011 -0.033 0.999 -5.043e-003
0.010 6.410 -0.100 0.988 -0.155 0.002 1.135e+001 0.155 0.988 0.003
1.034e+000 -0.003 -0.003 1.000 -4.896e-003
0.410 6.410 -0.100 0.996 -0.090 -0.001 1.117e+001 0.090 0.996 -0.024
1.078e+000 0.003 0.023 1.000 -5.650e-003
0.810 6.410 -0.100 0.999 -0.031 -0.008 1.110e+001 0.030 0.997 -0.069
6.298e-001 0.010 0.068 0.998 -8.308e-003
1.210 6.410 -0.100 1.000 -0.002 -0.015 1.086e+001 0.014 -0.286 0.958
2.886e-003 0.006 0.958 0.286 -1.154e-001
1.610 6.410 -0.100 1.000 0.008 -0.023 1.010e+001 0.023 -0.002 1.000
-1.074e-002 -0.008 1.000 0.003 -6.646e-001
2.010 6.410 -0.100 0.999 0.029 -0.036 8.727e+000 0.035 0.041 0.999
-2.651e-002 -0.030 0.999 -0.040 -8.600e-001
2.410 6.410 -0.100 0.993 0.091 -0.070 6.714e+000 0.059 0.119 0.991
-2.942e-002 -0.099 0.989 -0.113 -8.726e-001
2.810 6.410 -0.100 0.811 0.582 -0.058 7.310e+000 -0.565 0.805 0.183
-1.772e+000 0.154 -0.116 0.981 -6.753e+000
3.210 6.410 -0.100 0.991 -0.125 0.051 2.956e+000 -0.059 -0.059 0.996
-1.142e-002 0.122 0.990 0.066 -1.847e+000
3.610 6.410 -0.100 0.974 -0.223 0.036 3.479e+000 -0.038 -0.006 0.999
-4.146e-003 0.223 0.975 0.015 -1.662e+000
4.010 6.410 -0.100 0.965 -0.260 0.029 4.089e+000 -0.025 0.019 1.000
-4.001e-003 0.261 0.965 -0.012 -1.449e+000
-3.990 6.810 -0.100 0.989 -0.147 0.013 1.106e+001 0.147 0.989 0.013
3.259e+000 -0.015 -0.011 1.000 -3.804e-003
-3.590 6.810 -0.100 0.996 -0.087 0.022 1.106e+001 0.087 0.996 0.005
4.132e+000 -0.022 -0.004 1.000 -8.409e-003
-3.190 6.810 -0.100 0.997 0.067 0.028 1.168e+001 -0.066 0.997 -0.033
4.515e+000 -0.030 0.031 0.999 -1.675e-002
-2.790 6.810 -0.100 0.990 0.137 0.014 1.352e+001 -0.134 0.983 -0.122
2.907e+000 -0.030 0.119 0.992 -3.984e-002
-2.390 6.810 -0.100 1.000 0.027 0.002 1.456e+001 -0.024 0.903 -0.428
5.579e-001 -0.013 0.428 0.904 -1.135e+001
-1.990 6.810 -0.100 0.995 -0.085 0.001 1.407e+001 -0.016 -0.179 0.984
2.336e-002 0.085 0.980 0.179 -5.754e-001
-1.590 6.810 -0.100 0.989 -0.148 0.002 1.329e+001 -0.010 -0.055 0.998
2.302e-003 0.148 0.987 0.056 -5.635e-001
-1.190 6.810 -0.100 0.985 -0.174 0.003 1.268e+001 -0.004 -0.007 1.000
-1.250e-003 0.174 0.985 0.007 -2.635e-001
-0.790 6.810 -0.100 0.984 -0.178 0.003 1.223e+001 0.177 0.981 0.078
9.011e-002 -0.017 -0.076 0.997 -3.013e-003
-0.390 6.810 -0.100 0.987 -0.164 0.002 1.188e+001 0.164 0.986 0.013
3.915e-001 -0.004 -0.013 1.000 -3.406e-003
0.010 6.810 -0.100 0.991 -0.133 -0.000 1.159e+001 0.133 0.991 -0.007
5.479e-001 0.001 0.006 1.000 -4.050e-003
0.410 6.810 -0.100 0.996 -0.091 -0.004 1.136e+001 0.091 0.995 -0.028
4.605e-001 0.007 0.028 1.000 -5.032e-003
0.810 6.810 -0.100 0.999 -0.049 -0.009 1.111e+001 0.047 0.989 -0.137
1.000e-001 0.016 0.136 0.991 -7.652e-003
1.210 6.810 -0.100 1.000 -0.015 -0.016 1.069e+001 0.016 -0.007 1.000
-7.405e-003 0.015 1.000 0.006 -4.176e-001
1.610 6.810 -0.100 1.000 0.016 -0.024 9.916e+000 0.024 0.022 0.999
-1.133e-002 -0.017 1.000 -0.022 -8.897e-001

-3.590 7.610 -0.100 1.000 -0.012 0.008 1.096e+001 0.012 1.000 -0.026
2.671e+000 -0.008 0.026 1.000 -1.335e-003
-3.190 7.610 -0.100 1.000 0.025 0.007 1.136e+001 -0.025 0.999 -0.039
2.435e+000 -0.008 0.039 0.999 -2.552e-003
-2.790 7.610 -0.100 0.999 0.033 0.005 1.190e+001 -0.033 0.998 -0.058
1.839e+000 -0.007 0.058 0.998 -4.138e-003
-2.390 7.610 -0.100 1.000 0.007 0.003 1.232e+001 -0.007 0.997 -0.082
1.127e+000 -0.004 0.082 0.997 -5.464e-003
-1.990 7.610 -0.100 0.999 -0.034 0.002 1.249e+001 0.034 0.993 -0.111
5.839e-001 0.002 0.111 0.994 -5.825e-003
-1.590 7.610 -0.100 0.997 -0.073 0.002 1.243e+001 0.073 0.989 -0.129
3.017e-001 0.007 0.129 0.992 -4.690e-003
-1.190 7.610 -0.100 0.995 -0.101 0.002 1.226e+001 0.101 0.990 -0.098
2.093e-001 0.008 0.098 0.995 -2.636e-003
-0.790 7.610 -0.100 0.993 -0.116 0.001 1.207e+001 0.116 0.992 -0.044
1.987e-001 0.004 0.043 0.999 -1.871e-003
-0.390 7.610 -0.100 0.993 -0.120 0.000 1.188e+001 0.120 0.993 -0.003
1.742e-001 0.000 0.003 1.000 -2.290e-003
0.010 7.610 -0.100 0.994 -0.112 -0.002 1.168e+001 0.111 0.988 0.104
6.289e-002 -0.009 -0.104 0.995 -3.758e-003
0.410 7.610 -0.100 0.995 -0.095 -0.006 1.146e+001 0.014 0.089 0.996
-2.382e-003 0.094 0.992 -0.090 -1.862e-001
0.810 7.610 -0.100 0.998 -0.069 -0.011 1.116e+001 0.014 0.052 0.999
-3.465e-003 0.068 0.996 -0.053 -5.766e-001
1.210 7.610 -0.100 0.999 -0.033 -0.017 1.068e+001 0.018 0.045 0.999
-4.869e-003 0.032 0.998 -0.045 -1.071e+000
-9.077e-003 -0.038 -0.100 1.000 0.017 -0.025 9.922e+000 0.025 0.047 0.999
2.010 7.610 -0.100 0.995 -0.095 -0.042 8.690e+000 0.034 0.080 0.996
-3.374e-002 -0.099 0.992 -0.076 -1.969e+000
2.410 7.610 -0.100 0.966 0.252 -0.051 6.788e+000 0.016 0.139 0.990
-1.773e-002 -0.256 0.958 -0.130 -2.267e+000
2.810 7.610 -0.100 0.988 0.153 -0.024 5.958e+000 0.093 -0.463 0.881
4.142e-001 -0.124 0.873 0.472 -1.382e+000
3.210 7.610 -0.100 0.981 -0.188 0.041 4.291e+000 -0.062 -0.106 0.992
-8.956e-004 0.182 0.976 0.115 -1.019e+000
3.610 7.610 -0.100 0.963 -0.268 0.030 5.061e+000 -0.031 -0.003 1.000
-8.212e-003 0.268 0.963 0.011 -1.118e+000
4.010 7.610 -0.100 0.961 -0.276 0.020 5.821e+000 -0.014 0.024 1.000
-4.133e-003 0.277 0.961 -0.019 -1.211e+000
-3.990 8.010 -0.100 0.999 -0.034 0.005 1.071e+001 0.034 0.999 -0.023
2.147e+000 -0.005 0.023 1.000 -4.413e-004
-3.590 8.010 -0.100 1.000 -0.010 0.005 1.088e+001 0.010 1.000 -0.028
2.155e+000 -0.005 0.028 1.000 -8.330e-004
-3.190 8.010 -0.100 1.000 0.009 0.005 1.116e+001 -0.009 0.999 -0.037
1.961e+000 -0.005 0.036 0.999 -1.402e-003
-2.790 8.010 -0.100 1.000 0.012 0.004 1.150e+001 -0.012 0.999 -0.047
1.587e+000 -0.004 0.047 0.999 -2.027e-003
-2.390 8.010 -0.100 1.000 -0.004 0.003 1.179e+001 0.004 0.998 -0.057
1.150e+000 -0.003 0.057 0.998 -2.464e-003
-1.990 8.010 -0.100 1.000 -0.031 0.002 1.195e+001 0.031 0.997 -0.066
7.806e-001 -0.000 0.066 0.998 -2.491e-003
-1.590 8.010 -0.100 0.998 -0.059 0.002 1.199e+001 0.059 0.996 -0.066
5.382e-001 0.002 0.066 0.998 -2.103e-003
-1.190 8.010 -0.100 0.997 -0.083 0.002 1.193e+001 0.083 0.995 -0.053
4.043e-001 0.002 0.053 0.999 -1.626e-003

2.010 6.810 -0.100 0.997 0.060 -0.039 8.687e+000 0.037 0.038 0.999
-2.966e-002 -0.061 0.997 -0.036 -1.228e+000
2.410 6.810 -0.100 0.985 -0.149 -0.092 6.816e+000 0.078 0.095 0.992
-1.099e-001 -0.157 0.984 -0.082 -1.485e+000
2.810 6.810 -0.100 0.953 0.274 -0.130 4.261e+000 0.176 -0.151 0.973
1.056e-001 -0.247 0.950 0.192 -1.554e+000
3.210 6.810 -0.100 0.998 -0.053 0.024 3.354e+000 -0.030 -0.118 0.993
2.986e-002 0.050 0.992 0.120 -1.439e+000
3.610 6.810 -0.100 0.974 -0.223 0.034 3.930e+000 -0.038 -0.012 0.999
-5.033e-003 0.222 0.975 0.020 -1.419e+000
4.010 6.810 -0.100 0.964 -0.263 0.026 4.616e+000 -0.021 0.019 1.000
-4.202e-003 0.264 0.965 -0.013 -1.357e+000
-3.990 7.210 -0.100 0.996 -0.087 0.011 1.087e+001 0.087 0.996 -0.008
3.003e+000 -0.010 0.009 1.000 -1.219e-003
-3.590 7.210 -0.100 1.000 -0.028 0.013 1.101e+001 0.028 0.999 -0.018
3.372e+000 -0.013 0.019 1.000 -2.663e-003
-3.190 7.210 -0.100 0.999 0.048 0.012 1.156e+001 -0.048 0.998 -0.041
3.202e+000 -0.014 0.041 0.999 -5.523e-003
-2.790 7.210 -0.100 0.998 0.070 0.007 1.249e+001 -0.069 0.995 -0.078
2.223e+000 -0.013 0.078 0.997 -1.062e-002
-2.390 7.210 -0.100 1.000 0.021 0.003 1.314e+001 -0.020 0.989 -0.145
9.860e-001 -0.006 0.145 0.989 -1.713e-002
-1.990 7.210 -0.100 0.999 -0.047 0.002 1.319e+001 0.045 0.929 -0.366
2.171e-001 0.016 0.366 0.930 -3.085e-002
-1.590 7.210 -0.100 0.995 -0.100 0.002 1.290e+001 -0.045 -0.427 0.903
1.969e-002 0.089 0.899 0.430 -8.367e-002
-1.190 7.210 -0.100 0.992 -0.130 0.002 1.255e+001 -0.063 -0.462 0.885
7.412e-003 0.114 0.878 0.466 -3.039e-002
-0.790 7.210 -0.100 0.990 -0.142 0.002 1.222e+001 0.142 0.989 -0.037
1.157e-001 0.003 0.036 0.999 -2.020e-003
-0.390 7.210 -0.100 0.991 -0.137 0.001 1.195e+001 0.137 0.991 -0.003
2.272e-001 -0.000 0.003 1.000 -2.739e-003
0.010 7.210 -0.100 0.993 -0.120 -0.002 1.170e+001 0.119 0.993 -0.002
2.259e-001 0.002 0.002 1.000 -3.504e-003
0.410 7.210 -0.100 0.996 -0.092 -0.005 1.145e+001 0.092 0.996 0.011
5.252e-002 0.004 -0.012 1.000 -4.332e-003
0.810 7.210 -0.100 0.998 -0.059 -0.010 1.114e+001 0.012 0.023 1.000
-5.327e-003 0.059 0.998 -0.024 -2.983e-001
1.210 7.210 -0.100 1.000 -0.023 -0.016 1.065e+001 0.017 0.028 0.999
-6.851e-003 0.023 0.999 -0.028 -7.558e-001
1.610 7.210 -0.100 1.000 0.018 -0.025 9.856e+000 0.024 0.040 0.999
-1.092e-002 -0.019 0.999 -0.040 -1.208e+000
2.010 7.210 -0.100 0.997 0.071 -0.044 8.592e+000 0.038 0.075 0.996
-2.243e-002 -0.074 0.995 -0.072 -1.619e+000
2.410 7.210 -0.100 0.981 0.158 -0.113 6.445e+000 0.088 0.160 0.983
-9.763e-002 -0.173 0.974 -0.143 -2.272e+000
2.810 7.210 -0.100 0.864 0.365 -0.345 2.414e+000 0.451 -0.261 0.853
6.004e-001 -0.222 0.894 0.390 -1.604e+000
3.210 7.210 -0.100 0.983 -0.172 0.066 3.285e+000 -0.089 -0.132 0.987
-2.582e-003 0.161 0.976 0.145 -9.668e-001
3.610 7.210 -0.100 0.968 -0.250 0.034 4.404e+000 -0.037 -0.007 0.999
-7.810e-003 0.249 0.968 0.016 -1.215e+000
4.010 7.210 -0.100 0.963 -0.270 0.023 5.178e+000 -0.018 0.022 1.000
-4.298e-003 0.271 0.963 -0.016 -1.265e+000
-3.990 7.610 -0.100 0.999 -0.052 0.008 1.078e+001 0.052 0.998 -0.018
2.564e+000 -0.007 0.018 1.000 -6.204e-004

-0.790 8.010 -0.100 0.995 -0.100 0.001 1.183e+001 0.100 0.995 -0.029
3.205e-001 0.001 0.029 1.000 -1.486e-003
-0.390 8.010 -0.100 0.994 -0.108 0.000 1.171e+001 0.108 0.994 0.011
2.207e-001 -0.001 -0.011 1.000 -1.938e-003
0.010 8.010 -0.100 0.994 -0.108 -0.002 1.157e+001 0.104 0.948 0.301
4.967e-002 -0.031 -0.300 0.953 -7.796e-003
0.410 8.010 -0.100 0.995 -0.100 -0.005 1.140e+001 0.019 0.134 0.991
1.447e-003 0.098 0.986 -0.135 -2.592e-001
0.810 8.010 -0.100 0.997 -0.081 -0.010 1.114e+001 0.017 0.083 0.996
5.670e-004 0.080 0.993 -0.084 -7.035e-001
1.210 8.010 -0.100 0.999 -0.049 -0.017 1.073e+001 0.020 0.070 0.997
-1.357e-004 0.048 0.996 -0.071 -1.281e+000
1.610 8.010 -0.100 1.000 0.002 -0.028 1.004e+001 0.028 0.070 0.997
-1.220e-003 -0.004 0.998 -0.070 -1.945e+000
2.010 8.010 -0.100 0.995 0.086 -0.052 8.891e+000 0.045 0.082 0.996
-1.637e-002 -0.090 0.993 -0.078 -2.662e+000
2.410 8.010 -0.100 0.942 0.260 -0.213 6.793e+000 0.155 0.228 0.961
-4.313e-001 -0.298 0.938 -0.175 -3.273e+000
2.810 8.010 -0.100 0.943 0.329 -0.054 2.853e+000 0.230 -0.522 0.821
5.477e-001 -0.242 0.787 0.568 -9.216e-001
3.210 8.010 -0.100 0.969 -0.240 0.055 4.387e+000 -0.108 -0.213 0.971
7.030e-003 0.221 0.947 0.232 -5.505e-001
3.610 8.010 -0.100 0.957 -0.289 0.027 5.767e+000 -0.027 0.003 1.000
-9.109e-003 0.289 0.957 0.005 -1.030e+000
4.010 8.010 -0.100 0.960 -0.280 0.017 6.560e+000 -0.010 0.027 1.000
-3.820e-003 0.280 0.960 -0.023 -1.204e+000

OUTPUT FROM: poly3d.c, version Beta-Release
COMPILED: Feb 2 1999

INPUT FILE: combined_trial.in
TITLE1: "four-fault model"
TITLE2: "s11r=10, s22r=4"

ELASTIC CONSTANTS:

Shear Modulus = 30000.000000
Poisson's Ratio = 0.250000
Young's Modulus = 75000.000000
Bulk Modulus = 50000.000000
Lame's Lambda = 30000.000000

NULL OUTPUT VALUE = -999.000000

COEF EXCLUSION VALUE = 0.000000

CONDITION NUMBER = 474.637831

OBJECT: pcf
ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT	X1C	X2C	X3C	B1	U1(+)	U1(-)	B2
U2(+)	U2(-)	B3	U3(+)	U3(-)	Coord Sys		
1	2.222	9.135	-0.627	4.427e-004	2.032e-004	-2.395e-004	-8.543e-005
2.565e-005	5.978e-005	0.000e+000	-6.155e-005	-6.155e-005	elocal		
2	2.386	8.817	-0.313	5.538e-004	-2.958e-004	-8.495e-004	-6.805e-005
5.957e-005	1.276e-004	0.000e+000	-9.444e-005	-9.444e-005	elocal		
3	2.372	8.135	-0.627	7.059e-004	3.421e-004	-3.639e-004	-1.178e-004
4.479e-005	7.303e-005	0.000e+000	-1.208e-004	-1.208e-004	elocal		
4	2.536	7.817	-0.313	7.723e-004	-4.037e-004	-1.176e-003	-1.069e-004
7.247e-005	1.794e-004	0.000e+000	-1.530e-004	-1.530e-004	elocal		
5	2.522	7.135	-0.627	8.440e-004	4.116e-004	-4.324e-004	-1.435e-004
6.360e-005	7.994e-005	0.000e+000	-1.703e-004	-1.703e-004	elocal		
6	2.686	6.817	-0.313	8.875e-004	4.234e-004	-4.640e-004	-1.400e-004
5.844e-005	8.157e-005	0.000e+000	-2.006e-004	-2.006e-004	elocal		
7	2.672	6.135	-0.627	9.139e-004	-4.701e-004	-1.384e-003	-1.620e-004
8.223e-005	2.442e-004	0.000e+000	-2.182e-004	-2.182e-004	elocal		
8	2.836	5.817	-0.313	9.405e-004	-4.946e-004	-1.435e-003	-1.607e-004
8.487e-005	2.456e-004	0.000e+000	-2.493e-004	-2.493e-004	elocal		
9	2.715	5.171	-0.627	9.456e-004	-4.921e-004	-1.438e-003	-3.612e-005
7.443e-005	3.831e-005	0.000e+000	-2.522e-004	-2.522e-004	elocal		
10	2.773	4.853	-0.313	9.581e-004	-5.373e-004	-1.495e-003	-4.831e-005
7.109e-005	2.278e-005	0.000e+000	-2.817e-004	-2.817e-004	elocal		
11	2.549	4.207	-0.627	9.191e-004	-5.423e-004	-1.461e-003	-3.640e-005
6.415e-005	2.775e-005	0.000e+000	-3.009e-004	-3.009e-004	elocal		
12	2.609	3.853	-0.313	9.199e-004	3.483e-004	-5.715e-004	-3.775e-005
1.063e-004	-6.851e-005	0.000e+000	-3.330e-004	-3.330e-004	elocal		

41	2.373	5.159	-1.566	8.732e-004	4.249e-004	-4.484e-004	-9.280e-007
6.357e-005	-6.264e-005	0.000e+000	-1.702e-004	-1.702e-004	elocal		
42	2.431	4.878	-1.253	8.986e-004	-4.825e-004	-1.381e-003	-6.296e-006
6.489e-005	-5.859e-005	0.000e+000	-2.253e-004	-2.253e-004	elocal		
43	2.207	4.267	-1.566	8.557e-004	3.612e-004	-4.945e-004	5.626e-006
4.820e-005	-5.383e-005	0.000e+000	-2.036e-004	-2.036e-004	elocal		
44	2.267	3.914	-1.253	8.737e-004	3.525e-004	-5.212e-004	4.699e-006
5.718e-005	-6.188e-005	0.000e+000	-2.615e-004	-2.615e-004	elocal		
45	2.043	3.267	-1.566	8.249e-004	-5.223e-004	-1.347e-003	3.754e-005
6.909e-005	-1.066e-004	0.000e+000	-2.321e-004	-2.321e-004	elocal		
46	2.101	2.914	-1.253	8.402e-004	-5.446e-004	-1.385e-003	3.963e-005
7.599e-005	-1.156e-004	0.000e+000	-2.899e-004	-2.899e-004	elocal		
47	1.847	2.288	-1.566	7.933e-004	2.539e-004	-5.394e-004	9.619e-005
2.461e-005	-1.208e-004	0.000e+000	-2.457e-004	-2.457e-004	elocal		
48	1.877	1.945	-1.253	8.074e-004	-5.650e-004	-1.372e-003	9.585e-005
1.269e-004	-2.228e-004	0.000e+000	-3.008e-004	-3.008e-004	elocal		
49	1.597	1.319	-1.566	7.694e-004	2.065e-004	-5.629e-004	1.135e-004
1.019e-005	-1.237e-004	0.000e+000	-2.564e-004	-2.564e-004	elocal		
50	1.627	0.956	-1.253	7.843e-004	2.014e-004	-5.828e-004	1.155e-004
1.483e-005	-1.303e-004	0.000e+000	-3.109e-004	-3.109e-004	elocal		
51	1.347	0.319	-1.566	7.581e-004	1.794e-004	-5.787e-004	1.297e-004
7.815e-007	-1.289e-004	0.000e+000	-2.596e-004	-2.596e-004	elocal		
52	1.377	-0.093	-1.253	7.794e-004	1.726e-004	-6.068e-004	1.207e-004
2.415e-006	-1.183e-004	0.000e+000	-3.052e-004	-3.052e-004	elocal		
53	1.180	-0.493	-1.566	7.702e-004	1.827e-004	-5.875e-004	5.026e-005
3.653e-005	-1.373e-005	0.000e+000	-2.626e-004	-2.626e-004	elocal		
54	1.222	-0.923	-1.566	7.707e-004	2.100e-004	-5.607e-004	1.293e-005
6.441e-005	5.146e-005	0.000e+000	-2.648e-004	-2.648e-004	elocal		
55	1.377	-1.239	-1.253	7.922e-004	-5.496e-004	-1.342e-003	3.185e-005
6.335e-005	3.149e-005	0.000e+000	-3.161e-004	-3.161e-004	elocal		
56	1.241	-1.923	-1.566	7.543e-004	2.626e-004	-4.917e-004	1.483e-004
5.501e-005	-9.330e-005	0.000e+000	-2.732e-004	-2.732e-004	elocal		
57	1.397	-2.239	-1.253	8.228e-004	-5.594e-004	-1.382e-003	6.021e-005
6.91e-005	3.692e-006	0.000e+000	-2.573e-004	-2.573e-004	elocal		
58	1.158	-2.771	-1.566	7.924e-004	2.928e-004	-4.996e-004	2.441e-004
8.373e-005	-1.603e-004	0.000e+000	-2.121e-004	-2.121e-004	elocal		
59	1.211	-3.010	-1.253	7.703e-004	-4.294e-004	-1.200e-003	3.258e-004
2.656e-004	-5.914e-004	0.000e+000	-2.414e-004	-2.414e-004	elocal		
60	0.763	-3.543	-1.566	7.725e-004	3.280e-004	-4.445e-004	2.653e-004
5.355e-005	-2.118e-004	0.000e+000	-1.973e-004	-1.973e-004	elocal		
61	0.711	-3.934	-1.253	7.627e-004	3.144e-004	-4.483e-004	2.422e-004
3.279e-005	-2.094e-004	0.000e+000	-2.212e-004	-2.212e-004	elocal		
62	0.263	-4.543	-1.566	6.568e-004	2.442e-004	-4.126e-004	2.344e-004
3.648e-005	-1.979e-004	0.000e+000	-1.742e-004	-1.742e-004	elocal		
63	0.211	-4.934	-1.253	6.209e-004	2.112e-004	-4.096e-004	2.058e-004
1.383e-005	-1.920e-004	0.000e+000	-1.954e-004	-1.954e-004	elocal		
64	-0.237	-5.543	-1.566	4.467e-004	1.014e-004	-3.453e-004	1.860e-004
1.662e-005	-1.694e-004	0.000e+000	-1.428e-004	-1.428e-004	elocal		
65	-0.289	-5.934	-1.253	3.737e-004	4.860e-005	-3.251e-004	1.390e-004
1.327e-005	-1.523e-004	0.000e+000	-1.544e-004	-1.544e-004	elocal		
66	1.538	9.039	-2.506	3.657e-004	1.682e-004	-1.976e-004	-1.040e-004
4.619e-005	5.785e-005	0.000e+000	-6.963e-006	-6.963e-006	elocal		
67	1.702	8.721	-2.192	4.448e-004	2.099e-004	-2.349e-004	-1.216e-004
5.514e-005	6.647e-005	0.000e+000	-3.040e-005	-3.040e-005	elocal		
68	1.688	8.039	-2.506	5.612e-004	2.704e-004	-2.907e-004	-1.482e-004
6.994e-005	7.822e-005	0.000e+000	-2.608e-005	-2.608e-005	elocal		

13	2.385	3.207	-0.627	8.794e-004	3.116e-004	-5.678e-004	-1.038e-006
7.750e-005	-7.646e-005	0.000e+000	-3.415e-004	-3.415e-004	elocal		
14	2.443	2.853	-0.313	8.781e-004	-5.922e-004	-1.470e-003	3.543e-006
7.988e-005	-8.343e-005	0.000e+000	-3.697e-004	-3.697e-004	elocal		
15	2.189	2.217	-0.627	8.415e-004	-5.829e-004	-1.424e-003	6.165e-005
1.311e-004	-1.928e-004	0.000e+000	-3.616e-004	-3.616e-004	elocal		
16	2.219	1.864	-0.313	8.393e-004	2.268e-004	-6.125e-004	6.375e-005
6.891e-005	-1.327e-004	0.000e+000	-3.857e-004	-3.857e-004	elocal		
17	1.939	1.228	-0.627	8.121e-004	-6.064e-004	-1.419e-003	9.215e-005
1.340e-004	-2.262e-004	0.000e+000	-3.778e-004	-3.778e-004	elocal		
18	1.969	0.864	-0.313	8.113e-004	1.833e-004	-6.280e-004	9.796e-005
4.064e-005	-1.386e-004	0.000e+000	-4.016e-004	-4.016e-004	elocal		
19	1.689	0.179	-0.627	7.988e-004	1.793e-004	-6.195e-004	1.128e-004
9.095e-006	-1.219e-004	0.000e+000	-3.882e-004	-3.882e-004	elocal		
20	1.719	-0.185	-0.313	8.011e-004	1.826e-004	-6.186e-004	1.279e-004
1.452e-005	-1.424e-004	0.000e+000	-4.197e-004	-4.197e-004	elocal		
21	1.564	-0.869	-0.627	8.137e-004	-6.021e-004	-1.416e-003	4.560e-005
8.277e-005	3.717e-005	0.000e+000	-3.813e-004	-3.813e-004	elocal		
22	1.719	-1.185	-0.313	8.272e-004	-5.951e-004	-1.422e-003	7.431e-005
9.517e-005	2.086e-005	0.000e+000	-3.907e-004	-3.907e-004	elocal		
23	1.689	-1.869	-0.627	8.362e-004	-5.190e-004	-1.355e-003	9.314e-005
7.780e-005	-1.534e-005	0.000e+000	-3.430e-004	-3.430e-004	elocal		
24	1.844	-2.185	-0.313	8.695e-004	3.530e-004	-5.165e-004	1.164e-004
2.067e-004	9.032e-005	0.000e+000	-3.262e-004	-3.262e-004	elocal		
25	1.605	-2.793	-0.627	7.889e-004	3.780e-004	-4.109e-004	3.103e-004
5.010e-005	-2.602e-004	0.000e+000	-2.953e-004	-2.953e-004	elocal		
26	1.553	-3.109	-0.313	8.134e-004	-4.940e-004	-1.307e-003	2.601e-004
2.166e-004	-4.767e-004	0.000e+000	-2.814e-004	-2.814e-004	elocal		
27	1.105	-3.717	-0.627	7.944e-004	-4.731e-004	-1.267e-003	2.201e-004
2.079e-004	-4.280e-004	0.000e+000	-2.644e-004	-2.644e-004	elocal		
28	1.053	-4.109	-0.313	7.803e-004	2.958e-004	-4.845e-004	1.846e-004
1.572e-005	-2.003e-004	0.000e+000	-2.646e-004	-2.646e-004	elocal		
29	0.605	-4.717	-0.627	6.735e-004	-4.376e-004	-1.111e-003	1.709e-004
1.928e-004	-3.637e-004	0.000e+000	-2.464e-004	-2.464e-004	elocal		
30	0.553	-5.109	-0.313	6.307e-004	1.942e-004	-4.365e-004	1.285e-004
5.219e-005	-1.806e-004	0.000e+000	-2.469e-004	-2.469e-004	elocal		
31	0.105	-5.717	-0.627	4.442e-004	8.605e-005	-3.582e-004	1.255e-004
4.202e-005	-1.676e-004	0.000e+000	-2.106e-004	-2.106e-004	elocal		
32	0.053	-6.109	-0.313	3.652e-004	2.912e-005	-3.361e-004	7.199e-005
7.559e-005	-1.765e-004	0.000e+000	-2.038e-004	-2.038e-004	elocal		
33	1.880	9.087	-1.566	4.033e-004	1.874e-004	-2.160e-004	-1.045e-004
4.389e-005	6.064e-005	0.000e+000	-3.232e-005	-3.232e-005	elocal		
34	2.044	8.769	-1.253	4.913e-004	-2.565e-004	-7.478e-004	-1.174e-004
6.840e-005	1.858e-004	0.000e+000	-6.451e-005	-6.451e-005	elocal		
35	2.030	8.087	-1.566	6.348e-004	-3.238e-004	-9.587e-004	-1.489e-004
8.123e-005	2.302e-004	0.000e+000	-6.796e-005	-6.796e-005	elocal		
36	2.194	7.769	-1.253	7.005e-004	3.465e-004	-3.540e-004	-1.483e-004
6.626e-005	8.206e-005	0.000e+000	-1.103e-004	-1.103e-004	elocal		
37	2.180	7.087	-1.566	7.668e-004	-3.861e-004	-1.153e-003	-1.628e-004
8.627e-005	2.490e-004	0.000e+000	-1.056e-004	-1.056e-004	elocal		
38	2.344	6.769	-1.253	8.179e-004	4.071e-004	-4.108e-004	-1.598e-004
7.518e-005	8.461e-005	0.000e+000	-1.543e-004	-1.543e-004	elocal		
39	2.330	6.087	-1.566	8.399e-004	4.173e-004	-4.226e-004	-1.582e-004
7.671e-005	8.149e-005	0.000e+000	-1.456e-004	-1.456e-004	elocal		
40	2.494	5.769	-1.253	8.790e-004	4.367e-004	-4.422e-004	-1.526e-004
7.558e-005	7.702e-005	0.000e+000	-2.001e-004	-2.001e-004	elocal		

70C

97 -0.579 -5.368 -2.506 4.282e-004 1.003e-004 -3.279e-004 2.201e-004
6.082e-005 -1.592e-004 0.000e+000 -6.532e-005 -6.532e-005 elocal
98 -0.631 -5.760 -2.192 3.694e-004 5.669e-005 -3.127e-004 1.736e-004
2.989e-005 -1.437e-004 0.000e+000 -8.006e-005 -8.006e-005 elocal
99 1.196 8.991 -3.446 3.121e-004 1.406e-004 -1.715e-004 -9.667e-005 -
4.290e-005 3.376e-005 0.000e+000 1.429e-004 1.429e-005 elocal
100 1.360 8.673 -3.132 3.874e-004 1.795e-004 -2.079e-004 -1.140e-004 -
5.217e-005 6.179e-005 0.000e+000 -2.688e-006 -2.688e-006 elocal
101 1.346 7.991 -3.446 4.636e-004 -2.452e-004 -7.087e-004 -1.328e-004
7.042e-005 2.033e-004 0.000e+000 6.347e-006 8.347e-006 elocal
102 1.510 7.673 -3.132 6.143e-004 -3.187e-004 -9.330e-004 -1.322e-004
6.568e-005 7.275e-005 0.000e+000 -1.662e-005 -1.662e-005 elocal
103 1.496 6.991 -3.446 5.485e-004 -2.612e-004 -2.873e-004 -1.341e-004 -
6.360e-005 7.052e-005 0.000e+000 -2.596e-006 -2.596e-006 elocal
104 1.660 6.673 -3.132 6.143e-004 -3.187e-004 -9.330e-004 -1.322e-004
6.951e-005 2.017e-004 0.000e+000 -3.406e-005 -3.406e-005 elocal
105 1.646 5.991 -3.446 6.011e-004 2.847e-004 -3.164e-004 -1.085e-004 -
4.947e-005 5.899e-005 0.000e+000 -1.718e-005 -1.718e-005 elocal
106 1.810 5.673 -3.132 6.656e-004 3.466e-004 -1.012e-003 -9.665e-005
5.413e-005 1.508e-004 0.000e+000 -5.392e-005 -5.392e-005 elocal
107 1.689 5.135 -3.446 6.272e-004 3.406e-004 -9.679e-004 5.999e-005 -
4.296e-005 -1.029e-004 0.000e+000 -2.582e-005 -2.582e-005 elocal
108 1.747 4.926 -3.132 6.715e-004 2.981e-004 -3.734e-004 6.631e-005
1.459e-005 -5.172e-005 0.000e+000 -6.148e-005 -6.148e-005 elocal
109 1.523 4.388 -3.446 6.117e-004 -3.698e-004 -9.815e-004 6.485e-005 -
3.786e-005 -1.027e-004 0.000e+000 -2.748e-005 -2.748e-005 elocal
110 1.583 4.034 -3.132 6.628e-004 -4.086e-004 -1.071e-003 7.259e-005 -
4.855e-005 -1.211e-004 0.000e+000 -6.313e-005 -6.313e-005 elocal
111 1.359 3.388 -3.446 5.971e-004 -3.961e-004 -9.931e-004 9.187e-005 -
5.409e-005 -1.460e-004 0.000e+000 -2.824e-005 -2.824e-005 elocal
112 1.417 3.034 -3.132 6.453e-004 2.130e-004 -4.323e-004 9.856e-005
3.477e-005 -6.379e-005 0.000e+000 -6.727e-005 -6.727e-005 elocal
113 1.163 2.430 -3.446 5.799e-004 -4.136e-004 -9.935e-004 1.393e-004 -
8.859e-005 -2.279e-004 0.000e+000 -2.558e-005 -2.558e-005 elocal
114 1.193 2.108 -3.132 6.240e-004 -4.502e-004 -1.074e-003 1.430e-004 -
1.006e-004 -2.436e-004 0.000e+000 -6.468e-005 -6.468e-005 elocal
115 0.913 1.503 -3.446 5.685e-004 -4.340e-004 -1.003e-003 1.379e-004 -
9.190e-005 -2.298e-004 0.000e+000 -2.161e-005 -2.161e-005 elocal
116 0.943 1.139 -3.132 6.140e-004 -4.694e-004 -1.083e-003 1.430e-004 -
1.024e-004 -2.454e-004 0.000e+000 -6.170e-005 -6.170e-005 elocal
117 0.663 0.503 -3.446 5.609e-004 -4.480e-004 -1.009e-003 1.377e-004 -
9.514e-005 -2.328e-004 0.000e+000 -1.298e-005 -1.298e-005 elocal
118 0.693 0.139 -3.132 6.063e-004 1.231e-004 -4.832e-004 1.359e-004
3.278e-005 -1.031e-004 0.000e+000 -5.165e-005 -5.165e-005 elocal
119 0.496 -0.358 -3.446 5.690e-004 -4.623e-004 -1.031e-003 4.516e-005 -
4.143e-005 -6.659e-005 0.000e+000 -1.084e-005 -1.084e-005 elocal
120 0.610 -0.535 -3.132 6.005e-004 -4.792e-004 -1.080e-003 3.654e-005 -
3.289e-005 -6.943e-005 0.000e+000 -6.455e-005 -6.455e-005 elocal
121 0.538 -1.032 -3.446 5.720e-004 -4.404e-004 -1.012e-003 -9.872e-006 -
3.192e-006 6.680e-006 0.000e+000 -2.983e-005 -2.983e-005 elocal
122 0.693 -1.348 -3.132 6.253e-004 -4.518e-004 -1.077e-003 4.853e-007
4.294e-006 6.809e-006 0.000e+000 -8.506e-005 -8.506e-005 elocal
123 0.496 -2.065 -3.446 5.510e-004 1.609e-004 -3.901e-004 1.448e-004
3.129e-005 -1.135e-004 0.000e+000 -5.158e-005 -5.158e-005 elocal
124 0.485 -2.481 -3.132 6.119e-004 1.947e-004 -4.173e-004 1.588e-004
4.485e-005 -1.140e-004 0.000e+000 -9.001e-005 -9.001e-005 elocal

153 0.196 -1.086 -4.385 3.573e-004 3.495e-005 -3.223e-004 -1.923e-005 -
3.795e-005 -1.872e-005 0.000e+000 6.387e-005 6.387e-005 elocal
154 0.351 -1.402 -4.072 4.530e-004 9.205e-005 -3.609e-004 -4.326e-006 -
2.169e-005 -1.736e-005 0.000e+000 1.744e-005 1.744e-005 elocal
155 0.154 -2.039 -4.385 3.381e-004 4.571e-005 -2.924e-004 1.235e-004
4.181e-005 -8.169e-005 0.000e+000 4.669e-005 4.669e-005 elocal
156 0.143 -2.383 -4.072 4.377e-004 1.050e-004 -3.328e-004 1.413e-004
4.470e-005 -9.662e-005 0.000e+000 1.613e-005 1.613e-005 elocal
157 -0.263 -3.020 -4.385 3.254e-004 5.859e-005 -2.668e-004 1.507e-004
5.544e-005 -9.521e-005 0.000e+000 4.562e-005 4.562e-005 elocal
158 -0.315 -3.412 -4.072 4.720e-004 -3.095e-004 -7.815e-004 2.370e-004 -
1.343e-004 -3.712e-004 0.000e+000 2.491e-005 2.491e-005 elocal
159 -0.763 -4.020 -4.385 3.344e-004 8.311e-005 -2.461e-004 2.116e-004
1.029e-004 -1.087e-004 0.000e+000 5.651e-005 5.651e-005 elocal
160 -0.815 -4.412 -4.072 3.982e-004 -2.849e-004 -6.832e-004 2.416e-004 -
1.295e-004 -3.711e-004 0.000e+000 3.794e-005 3.794e-005 elocal
161 -1.263 -5.020 -4.385 2.554e-004 2.880e-005 -2.266e-004 1.923e-004
9.402e-005 -9.833e-005 0.000e+000 6.541e-005 6.541e-005 elocal
162 -1.315 -5.412 -4.072 2.724e-004 2.775e-005 -2.446e-004 1.845e-004
8.339e-005 -1.011e-004 0.000e+000 5.291e-005 5.291e-005 elocal

OBJECT: brf
ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT U2(+)	X1C U2(-)	X2C	X3C B3	B1 U3(+)	U1(+) U3(-)	U1(-) Coord Sys	B2
1	0.772	4.833	-0.627	2.440e-004	2.963e-004	5.233e-005	-1.027e-005
2	0.886	4.667	-0.313	3.369e-004	3.446e-004	7.657e-006	7.614e-006
3	0.722	4.183	-0.627	4.543e-004	3.947e-004	-5.967e-005	3.578e-005
4	0.786	3.849	-0.313	5.209e-004	4.142e-004	-1.067e-004	6.442e-005
5	0.575	3.199	-0.627	5.902e-004	4.421e-004	-1.481e-004	5.407e-005
6	0.643	2.849	-0.313	6.322e-004	4.526e-004	-1.796e-004	7.047e-005
7	0.435	2.199	-0.627	6.584e-004	4.645e-004	-1.939e-004	6.202e-005
8	0.503	1.849	-0.313	6.851e-004	4.679e-004	-2.172e-004	6.755e-005
9	0.319	1.410	-0.627	6.786e-004	4.745e-004	-2.041e-004	7.525e-005
10	0.409	1.227	-0.313	6.898e-004	4.589e-004	-2.308e-004	6.065e-005
11	0.109	0.791	-0.627	6.644e-004	4.097e-004	-2.547e-004	1.434e-004
12	0.059	0.401	-0.313	6.723e-004	3.704e-004	-3.019e-004	1.290e-004
13	0.059	0.401	-0.313	6.723e-004	3.704e-004	-3.019e-004	1.290e-004

125 0.079 -3.194 -3.446 5.795e-004 -3.663e-004 -9.458e-004 2.700e-004 -
1.668e-004 -4.368e-004 0.000e+000 -3.706e-005 -3.706e-005 elocal
126 0.027 -3.586 -3.132 6.386e-004 -3.822e-004 -1.021e-003 2.774e-004 -
1.761e-004 -4.535e-004 0.000e+000 -5.306e-005 -5.306e-005 elocal
127 -0.421 -4.194 -3.446 5.225e-004 1.840e-004 -3.385e-004 2.723e-004
1.099e-004 -1.624e-004 0.000e+000 -1.195e-005 -1.195e-005 elocal
128 -0.473 -4.586 -3.132 5.292e-004 1.766e-004 -3.526e-004 2.683e-004
1.008e-004 -1.675e-004 0.000e+000 -3.304e-005 -3.304e-005 elocal
129 -0.921 -5.194 -3.446 3.768e-004 8.217e-005 -2.946e-004 2.325e-004
9.298e-005 -1.395e-004 0.000e+000 6.654e-006 6.654e-006 elocal
130 -0.973 -5.586 -3.132 3.405e-004 5.182e-005 -2.887e-004 1.924e-004
6.491e-005 -1.275e-004 0.000e+000 -7.438e-006 -7.438e-006 elocal
131 0.854 8.943 -4.385 2.117e-004 8.955e-005 -1.221e-004 -7.782e-005 -
3.281e-005 4.500e-005 0.000e+000 3.179e-005 3.179e-005 elocal
132 1.018 8.625 -4.072 2.938e-004 -1.625e-004 -4.564e-004 -9.409e-005
5.241e-005 1.465e-004 0.000e+000 2.128e-005 2.128e-005 elocal
133 1.004 7.943 -4.385 2.970e-004 1.324e-004 -1.646e-004 -9.750e-005 -
4.353e-005 5.397e-005 0.000e+000 3.833e-005 3.833e-005 elocal
134 1.168 7.625 -4.072 3.861e-004 -2.084e-004 -5.945e-004 -1.066e-004
5.774e-005 1.643e-004 0.000e+000 2.067e-005 2.067e-005 elocal
135 1.154 6.943 -4.385 3.437e-004 1.538e-004 -1.899e-004 -9.405e-005 -
4.217e-005 5.189e-005 0.000e+000 3.896e-005 3.896e-005 elocal
136 1.318 6.625 -4.072 4.408e-004 2.026e-004 -2.381e-004 -9.633e-005 -
4.391e-005 5.242e-005 0.000e+000 1.594e-005 1.594e-005 elocal
137 1.304 5.943 -4.385 3.732e-004 1.613e-004 -2.119e-004 -7.246e-005 -
3.122e-005 4.124e-005 0.000e+000 3.671e-005 3.671e-005 elocal
138 1.468 5.625 -4.072 4.780e-004 2.148e-004 -2.632e-004 -6.064e-005 -
2.352e-005 3.712e-005 0.000e+000 8.977e-006 8.977e-006 elocal
139 1.347 5.123 -4.385 4.018e-004 1.601e-004 -2.417e-004 6.778e-005
4.887e-005 -1.891e-005 0.000e+000 2.997e-005 2.997e-005 elocal
140 1.405 4.850 -4.072 4.688e-004 -2.774e-004 -7.462e-004 7.935e-005 -
3.318e-005 -1.125e-004 0.000e+000 5.232e-006 5.232e-006 elocal
141 1.181 4.448 -4.385 3.788e-004 1.280e-004 -2.508e-004 6.169e-005
4.227e-005 -1.942e-005 0.000e+000 4.169e-005 4.169e-005 elocal
142 1.241 4.095 -4.072 4.749e-004 -3.101e-004 -7.850e-004 8.039e-005 -
3.478e-005 -1.152e-004 0.000e+000 1.721e-005 1.721e-005 elocal
143 1.017 3.448 -4.385 3.729e-004 9.702e-005 -2.759e-004 7.934e-005
4.645e-005 -3.289e-005 0.000e+000 5.190e-005 5.190e-005 elocal
144 1.075 3.095 -4.072 4.663e-004 1.327e-004 -3.336e-004 9.865e-005
5.038e-005 -4.828e-005 0.000e+000 2.386e-005 2.386e-005 elocal
145 0.821 2.500 -4.385 3.657e-004 7.086e-005 -2.948e-004 1.156e-004
6.218e-005 -5.344e-005 0.000e+000 6.031e-005 6.031e-005 elocal
146 0.851 2.189 -4.072 4.502e-004 1.019e-004 -3.483e-004 1.328e-004
6.085e-005 -7.192e-005 0.000e+000 3.218e-005 3.218e-005 elocal
147 0.571 1.594 -4.385 3.573e-004 4.708e-005 -3.103e-004 1.066e-004
4.874e-005 -5.785e-005 0.000e+000 6.991e-005 6.991e-005 elocal
148 0.601 1.231 -4.072 4.469e-004 7.999e-005 -3.669e-004 1.262e-004
5.165e-005 -7.452e-005 0.000e+000 4.062e-005 4.062e-005 elocal
149 0.321 0.594 -4.385 3.523e-004 2.956e-005 -3.227e-004 1.036e-004
4.405e-005 -5.956e-005 0.000e+000 8.039e-005 8.039e-005 elocal
150 0.351 0.231 -4.072 4.399e-004 6.184e-005 -3.781e-004 1.155e-004
4.217e-005 -7.337e-005 0.000e+000 5.257e-005 5.257e-005 elocal
151 0.154 -0.315 -4.385 3.583e-004 2.271e-005 -3.355e-004 2.865e-005 -
1.034e-005 -3.899e-005 0.000e+000 8.193e-005 8.193e-005 elocal
152 0.268 -0.540 -4.072 4.269e-004 -3.738e-004 -8.007e-004 2.457e-005 -
3.569e-005 -6.025e-005 0.000e+000 4.280e-005 4.280e-005 elocal

13 -0.218 0.071 -0.627 6.519e-004 3.542e-004 -2.977e-004 -8.789e-006
2.716e-005 3.595e-005 0.000e+000 -3.591e-004 -3.591e-004 elocal
14 -0.218 -0.243 -0.627 6.252e-004 3.396e-004 -2.856e-004 -1.841e-005
2.604e-005 4.445e-005 0.000e+000 -3.541e-004 -3.541e-004 elocal
15 -0.104 -0.497 -0.313 6.192e-004 3.306e-004 -2.886e-004 -2.903e-005
2.455e-005 5.358e-005 0.000e+000 -4.113e-004 -4.113e-004 elocal
16 -0.218 -0.839 -0.627 5.472e-004 2.996e-004 -2.476e-004 -2.383e-005
3.224e-005 5.606e-005 0.000e+000 -3.578e-004 -3.578e-004 elocal
17 -0.055 -1.136 -0.627 4.569e-004 2.785e-004 -1.783e-004 -1.829e-004
1.361e-004 3.190e-004 0.000e+000 -2.688e-004 -2.688e-004 elocal
18 0.223 -1.256 -0.313 4.221e-004 2.854e-004 -1.367e-004 -1.972e-004
1.582e-004 3.554e-004 0.000e+000 -3.157e-004 -3.157e-004 elocal
19 0.439 -1.761 -0.627 3.043e-004 3.024e-004 -1.988e-006 -1.445e-004
1.337e-004 2.782e-004 0.000e+000 -2.767e-004 -2.767e-004 elocal
20 0.719 -1.881 -0.313 2.557e-004 5.149e-005 -2.042e-004 -1.280e-004
3.018e-004 4.297e-004 0.000e+000 -3.081e-004 -3.081e-004 elocal
21 0.430 4.833 -1.566 2.234e-004 2.732e-004 4.982e-005 -1.634e-005 -
8.490e-006 7.852e-006 0.000e+000 -1.391e-004 -1.391e-004 elocal
22 0.544 4.667 -1.253 2.940e-004 3.169e-004 2.285e-005 -1.265e-005 -
4.240e-006 8.407e-006 0.000e+000 -1.887e-004 -1.887e-004 elocal
23 0.380 4.199 -1.566 4.037e-004 3.566e-004 -4.709e-005 1.783e-005 -
1.436e-006 -1.927e-005 0.000e+000 -1.589e-004 -1.589e-004 elocal
24 0.444 3.881 -1.253 4.596e-004 3.844e-004 -7.520e-005 2.814e-005
2.559e-006 -2.558e-005 0.000e+000 -2.202e-004 -2.202e-004 elocal
25 0.233 3.247 -1.566 5.329e-004 4.060e-004 -1.269e-004 3.318e-005
1.720e-005 -1.598e-005 0.000e+000 -1.856e-004 -1.856e-004 elocal
26 0.301 2.897 -1.253 5.748e-004 4.297e-004 -1.451e-004 4.440e-005
2.213e-005 -2.227e-005 0.000e+000 -2.486e-004 -2.486e-004 elocal
27 0.093 2.247 -1.566 6.034e-004 4.336e-004 -1.697e-004 5.213e-005
3.625e-005 -1.588e-005 0.000e+000 -2.002e-004 -2.002e-004 elocal
28 0.161 1.897 -1.253 6.323e-004 4.505e-004 -1.818e-004 5.905e-005
3.927e-005 -1.979e-005 0.000e+000 -2.624e-004 -2.624e-004 elocal
29 -0.023 1.503 -1.566 6.252e-004 4.397e-004 -1.856e-004 1.003e-004
4.561e-005 -5.472e-005 0.000e+000 -2.020e-004 -2.020e-004 elocal
30 0.067 1.365 -1.253 6.404e-004 4.430e-004 -1.973e-004 7.882e-005
4.626e-005 -3.257e-005 0.000e+000 -2.745e-004 -2.745e-004 elocal
31 -0.233 0.973 -1.566 6.173e-004 3.897e-004 -2.276e-004 1.560e-004
4.116e-005 -1.148e-004 0.000e+000 -1.981e-004 -1.981e-004 elocal
32 -0.283 0.583 -1.253 6.309e-004 -2.634e-004 -8.942e-004 1.485e-004

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41 0.097 -2.028 -1.566 2.885e-004 2.960e-004 7.431e-006 -1.297e-004
5.543e-005 1.851e-004 0.000e+000 -1.759e-004 -1.759e-004 elocal
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1.851e-004 2.814e-004 0.000e+000 -2.115e-004 -2.115e-004 elocal
43 0.088 4.833 -2.506 2.166e-004 2.383e-004 2.677e-005 -1.059e-005
4.933e-006 5.659e-006 0.000e+000 -3.810e-005 -3.810e-005 elocal
44 0.202 4.667 -2.192 2.753e-004 2.823e-004 7.005e-006 -7.325e-006
2.398e-006 4.927e-006 0.000e+000 -7.988e-005 -7.988e-005 elocal
45 0.038 4.215 -2.506 3.676e-004 3.082e-004 -5.941e-005 2.546e-005
1.776e-005 -7.692e-006 0.000e+000 -4.711e-005 -4.711e-005 elocal
46 0.102 3.913 -2.192 4.166e-004 3.378e-004 -7.873e-005 3.081e-005
1.759e-005 -1.323e-005 0.000e+000 -9.437e-005 -9.437e-005 elocal
47 -0.109 3.295 -2.506 4.775e-004 3.500e-004 -1.276e-004 3.679e-005
3.069e-005 -6.097e-006 0.000e+000 -5.617e-005 -5.617e-005 elocal
48 -0.041 2.945 -2.192 5.191e-004 3.786e-004 -1.404e-004 4.416e-005
3.385e-005 -1.032e-005 0.000e+000 -1.065e-004 -1.065e-004 elocal
49 -0.272 2.262 -2.506 5.414e-004 3.702e-004 -1.711e-004 7.018e-005
5.444e-005 -1.474e-005 0.000e+000 -6.017e-005 -6.017e-005 elocal
50 -0.205 1.913 -2.192 5.821e-004 3.953e-004 -1.868e-004 6.364e-005
5.321e-005 -1.043e-005 0.000e+000 -1.169e-004 -1.169e-004 elocal
51 -0.275 1.502 -2.192 5.780e-004 3.916e-004 -1.864e-004 1.111e-004
7.086e-005 -4.022e-005 0.000e+000 -1.225e-004 -1.225e-004 elocal
52 -0.575 1.155 -2.506 5.534e-004 3.383e-004 -2.151e-004 1.612e-004
9.329e-005 -6.796e-005 0.000e+000 -5.881e-005 -5.881e-005 elocal
53 -0.625 0.765 -2.192 5.762e-004 3.287e-004 -2.475e-004 1.574e-004
6.993e-005 -8.747e-005 0.000e+000 -9.727e-005 -9.727e-005 elocal
54 -0.902 0.313 -2.506 5.461e-004 2.813e-004 -2.649e-004 1.991e-005
2.081e-005 8.989e-007 0.000e+000 -3.545e-005 -3.545e-005 elocal
55 -0.788 0.131 -2.192 5.498e-004 2.910e-004 -2.588e-004 1.107e-005
2.269e-005 1.162e-005 0.000e+000 -9.594e-005 -9.594e-005 elocal
56 -0.902 -0.243 -2.506 5.163e-004 2.722e-004 -2.441e-004 2.131e-006
1.909e-005 1.696e-005 0.000e+000 -4.289e-005 -4.289e-005 elocal
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2.254e-005 2.615e-005 0.000e+000 -1.011e-004 -1.011e-004 elocal
58 -0.902 -1.017 -2.506 4.686e-004 2.464e-004 -2.222e-004 -8.844e-006
2.276e-005 3.160e-005 0.000e+000 -5.516e-005 -5.516e-005 elocal
59 -0.788 -1.195 -2.192 4.640e-004 2.464e-004 -2.176e-004 -1.245e-005
2.850e-005 4.095e-005 0.000e+000 -1.138e-004 -1.138e-004 elocal
60 -0.739 -1.671 -2.506 3.932e-004 2.318e-004 -1.614e-004 -1.542e-004
1.995e-005 1.342e-004 0.000e+000 -4.276e-005 -4.276e-005 elocal
61 -0.461 -1.790 -2.192 3.775e-004 2.614e-004 -1.161e-004 -1.565e-004
3.959e-007 1.562e-004 0.000e+000 -9.790e-005 -9.790e-005 elocal
62 -0.245 -2.296 -2.506 2.824e-004 2.694e-004 -1.292e-005 -1.315e-004
1.513e-005 1.163e-004 0.000e+000 -7.425e-005 -7.425e-005 elocal
63 0.035 -2.415 -2.192 2.388e-004 2.933e-004 5.447e-005 -1.085e-004
1.656e-005 1.250e-004 0.000e+000 -1.186e-004 -1.186e-004 elocal
64 -0.254 4.833 -3.446 1.861e-004 4.127e-006 -1.820e-004 -4.395e-006
4.570e-006 8.965e-006 0.000e+000 4.103e-005 4.103e-005 elocal
65 -0.140 4.667 -3.132 2.476e-004 -1.433e-005 -2.619e-004 1.066e-006
2.747e-006 1.681e-006 0.000e+000 1.102e-005 1.102e-005 elocal
66 -0.304 4.231 -3.446 3.105e-004 -6.680e-005 -3.773e-004 3.430e-005
1.162e-006 -3.314e-005 0.000e+000 4.211e-005 4.211e-005 elocal
67 -0.240 3.945 -3.132 3.635e-004 2.771e-004 -8.645e-005 4.136e-005
3.625e-005 -5.111e-006 0.000e+000 9.282e-006 9.282e-006 elocal
68 -0.451 3.343 -3.446 3.935e-004 -1.195e-004 -5.130e-004 4.553e-005
3.322e-006 -4.886e-005 0.000e+000 4.688e-005 4.688e-005 elocal

69 -0.383 2.993 -3.132 4.458e-004 3.087e-004 -1.370e-004 5.340e-005
4.709e-005 -6.312e-006 0.000e+000 1.131e-005 1.131e-005 elocal
70 -0.614 2.354 -3.446 4.421e-004 -1.550e-004 -5.971e-004 8.208e-005
9.756e-006 -9.184e-005 0.000e+000 5.170e-005 5.170e-005 elocal
71 -0.570 1.972 -3.132 4.962e-004 -1.742e-004 -6.703e-004 8.533e-005
1.246e-005 -9.779e-005 0.000e+000 1.516e-005 1.516e-005 elocal
72 -0.917 1.337 -3.446 4.487e-004 -1.857e-004 -6.344e-004 5.454e-004
2.859e-005 -1.831e-004 0.000e+000 5.201e-005 5.201e-005 elocal
73 -0.967 0.946 -3.132 4.894e-004 2.678e-004 -2.215e-004 1.555e-004
1.102e-004 -4.530e-005 0.000e+000 2.511e-005 2.511e-005 elocal
74 -1.244 0.434 -3.446 4.415e-004 2.149e-004 -2.266e-004 2.687e-005
1.243e-005 -1.444e-005 0.000e+000 7.628e-005 7.628e-005 elocal
75 -1.130 0.192 -3.132 4.666e-004 2.338e-004 -2.328e-004 1.791e-005
1.464e-005 -3.267e-006 0.000e+000 3.275e-005 3.275e-005 elocal
76 -1.244 -0.243 -3.446 4.222e-004 2.089e-004 -2.133e-004 7.551e-006
1.020e-005 2.650e-006 0.000e+000 7.033e-005 7.033e-005 elocal
77 -1.130 -0.497 -3.132 4.477e-004 2.269e-004 -2.209e-004 2.899e-006
1.436e-005 1.146e-005 0.000e+000 2.543e-005 2.543e-005 elocal
78 -1.244 -1.106 -3.446 3.883e-004 1.879e-004 -2.005e-004 -2.787e-006
1.442e-005 1.721e-005 0.000e+000 5.682e-005 5.682e-005 elocal
79 -1.130 -1.374 -3.132 4.069e-004 1.984e-004 -2.085e-004 -6.153e-006
2.133e-005 2.748e-005 0.000e+000 1.059e-005 1.059e-005 elocal
80 -1.081 -1.938 -3.446 3.357e-004 -1.602e-004 -4.959e-004 -1.319e-004
5.450e-005 1.864e-004 0.000e+000 4.742e-005 4.742e-005 elocal
81 -0.803 -2.058 -3.132 3.387e-004 -1.269e-004 -4.657e-004 -1.407e-004
7.819e-005 2.189e-004 0.000e+000 1.385e-006 1.385e-006 elocal
82 -0.587 -2.563 -3.446 2.612e-004 -4.757e-005 -3.088e-004 -1.201e-004
4.694e-005 1.671e-004 0.000e+000 1.989e-005 1.989e-005 elocal
83 -0.307 -2.683 -3.132 2.273e-004 2.255e-005 -2.047e-004 -1.095e-004
6.477e-005 1.742e-004 0.000e+000 -2.426e-005 -2.426e-005 elocal
84 -0.596 4.833 -4.385 1.214e-004 1.260e-004 4.616e-006 -2.792e-006
2.721e-006 5.513e-006 0.000e+000 8.057e-005 8.057e-005 elocal
85 -0.482 4.667 -4.072 1.775e-004 1.642e-004 -1.329e-005 5.145e-006
7.009e-006 1.864e-006 0.000e+000 7.052e-005 7.052e-005 elocal
86 -0.646 4.247 -4.385 1.908e-004 1.524e-004 -3.842e-005 3.241e-005
4.171e-005 9.308e-006 0.000e+000 8.915e-005 8.915e-005 elocal
87 -0.582 3.977 -4.072 2.560e-004 1.918e-004 -6.419e-005 4.449e-005
4.574e-005 1.246e-006 0.000e+000 7.814e-005 7.814e-005 elocal
88 -0.793 3.391 -4.385 2.340e-004 1.648e-004 -6.917e-005 4.079e-005
4.056e-005 -2.269e-007 0.000e+000 1.029e-004 1.029e-004 elocal
89 -0.725 3.041 -4.072 3.116e-004 2.100e-004 -1.016e-004 5.663e-005
5.019e-005 -6.443e-006 0.000e+000 9.035e-005 9.035e-005 elocal
90 -0.956 2.447 -4.385 2.628e-004 1.662e-004 -9.655e-005 7.579e-005
7.428e-005 -1.518e-006 0.000e+000 1.124e-004 1.124e-004 elocal
91 -0.912 2.109 -4.072 3.453e-004 2.177e-004 -1.275e-004 8.949e-005
7.978e-005 -9.715e-006 0.000e+000 9.814e-005 9.814e-005 elocal
92 -1.259 1.518 -4.385 2.648e-004 1.521e-004 -1.126e-004 1.231e-004
1.250e-004 1.899e-006 0.000e+000 1.124e-004 1.124e-004 elocal
93 -1.309 1.128 -4.072 3.385e-004 -1.580e-004 -4.965e-004 1.367e-004
1.188e-005 -1.485e-004 0.000e+000 1.040e-004 1.040e-004 elocal
94 -1.586 0.555 -4.385 2.603e-004 1.170e-004 -1.433e-004 2.449e-005
3.409e-006 -2.108e-005 0.000e+000 1.338e-004 1.338e-004 elocal
95 -1.472 0.252 -4.072 3.219e-004 1.505e-004 -1.714e-004 2.175e-005
6.434e-006 -1.531e-005 0.000e+000 1.152e-004 1.152e-004 elocal
96 -1.586 -0.243 -4.385 2.556e-004 1.128e-004 -1.428e-004 8.775e-006
2.622e-006 -6.153e-006 0.000e+000 1.305e-004 1.305e-004 elocal

97 -1.472 -0.497 -4.072 3.103e-004 1.436e-004 -1.667e-004 8.867e-006
6.829e-006 -2.038e-006 0.000e+000 1.088e-004 1.088e-004 elocal
98 -1.586 -1.195 -4.385 2.319e-004 9.563e-005 -1.362e-004 1.695e-006
6.844e-006 5.150e-006 0.000e+000 1.195e-004 1.195e-004 elocal
99 -1.472 -1.552 -4.072 2.895e-004 1.243e-004 -1.652e-004 3.965e-006
1.528e-005 1.132e-005 0.000e+000 9.686e-005 9.686e-005 elocal
100 -1.423 -2.205 -4.385 2.099e-004 9.086e-005 -1.190e-004 -9.290e-005
1.052e-004 -1.231e-005 0.000e+000 9.880e-005 9.880e-005 elocal
101 -1.145 -2.325 -4.072 2.509e-004 -1.191e-004 -3.700e-004 -1.003e-004
6.309e-007 9.967e-005 0.000e+000 7.554e-005 7.554e-005 elocal
102 -0.929 -2.830 -4.385 1.831e-004 1.075e-004 -7.558e-005 -7.904e-005
1.058e-004 -2.680e-005 0.000e+000 8.704e-005 8.704e-005 elocal
103 -0.649 -2.950 -4.072 1.922e-004 1.632e-004 -2.906e-005 -8.317e-005
8.674e-005 -3.571e-006 0.000e+000 6.013e-005 6.013e-005 elocal

OBJECT: scf
ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT U2(+)	X1C U2(-)	X2C B3	X3C U3(+)	B1 U3(-)	U1(+) Coord Sys	U1(-)	B2
1	-2.928	5.667	-0.627	4.741e-004	2.874e-004	-1.867e-004	-1.256e-006
6.819e-005	6.944e-005	0.000e+000	-8.410e-005	-8.410e-005	elocal		
2	-2.814	5.333	-0.313	5.997e-004	3.561e-004	-2.436e-004	3.954e-005
1.078e-004	6.829e-005	0.000e+000	-1.294e-004	-1.294e-004	elocal		
3	-2.928	4.667	-0.627	7.460e-004	4.521e-004	-2.940e-004	3.059e-005
9.021e-005	5.962e-005	0.000e+000	-1.373e-004	-1.373e-004	elocal		
4	-2.814	4.333	-0.313	8.245e-004	4.929e-004	-3.316e-004	5.795e-005
1.194e-004	6.144e-005	0.000e+000	-1.841e-004	-1.841e-004	elocal		
5	-2.928	3.667	-0.627	8.857e-004	5.490e-004	-3.367e-004	5.785e-005
1.067e-004	4.888e-005	0.000e+000	-1.716e-004	-1.716e-004	elocal		
6	-2.814	3.333	-0.313	9.453e-004	5.800e-004	-3.653e-004	8.156e-005
1.332e-004	5.160e-005	0.000e+000	-2.159e-004	-2.159e-004	elocal		
7	-3.028	2.695	-0.627	9.335e-004	5.753e-004	-3.582e-004	2.130e-004
1.300e-004	-8.300e-005	0.000e+000	-1.966e-004	-1.966e-004	elocal		
8	-3.014	2.362	-0.313	9.754e-004	5.622e-004	-4.133e-004	2.182e-004
1.216e-004	-9.659e-005	0.000e+000	-2.268e-004	-2.268e-004	elocal		
9	-3.228	1.890	-0.627	9.885e-004	-3.971e-004	-1.386e-003	8.861e-005
2.078e-005	-6.783e-005	0.000e+000	-1.826e-004	-1.826e-004	elocal		
10	-3.114	1.695	-0.313	1.020e-003	-4.167e-004	-1.437e-003	8.949e-005
3.253e-005	-5.696e-005	0.000e+000	-2.462e-004	-2.462e-004	elocal		
11	-3.228	1.528	-0.627	1.014e-003	-3.870e-004	-1.401e-003	8.574e-005
2.635e-005	-5.939e-005	0.000e+000	-1.998e-004	-1.998e-004	elocal		
12	-3.228	1.167	-0.627	1.015e-003	-3.960e-004	-1.411e-003	8.255e-005
2.862e-005	-5.393e-005	0.000e+000	-1.831e-004	-1.831e-004	elocal		
13	-3.114	0.833	-0.313	1.057e-003	-4.182e-004	-1.475e-003	9.432e-005
3.429e-005	-6.003e-005	0.000e+000	-2.227e-004	-2.227e-004	elocal		
14	-3.228	0.167	-0.627	1.043e-003	-3.840e-004	-1.427e-003	9.252e-005
3.103e-005	-6.149e-005	0.000e+000	-1.870e-004	-1.870e-004	elocal		
15	-3.114	-0.167	-0.313	1.080e-003	-4.026e-004	-1.482e-003	1.067e-004
3.728e-005	-6.942e-005	0.000e+000	-2.223e-004	-2.223e-004	elocal		

16 -3.228 -0.667 -0.627 1.054e-003 -3.530e-004 -1.407e-003 1.070e-004
3.728e-005 -6.973e-005 0.000e+000 -1.921e-004 -1.921e-004 elocal
17 -3.114 -0.833 -0.313 1.069e-003 -3.641e-004 -1.433e-003 1.144e-004
4.943e-005 -6.495e-005 0.000e+000 -2.492e-004 -2.492e-004 elocal
18 -3.311 -1.305 -0.627 1.017e-003 -3.287e-004 -1.346e-003 2.102e-004
4.270e-005 -2.529e-004 0.000e+000 -1.986e-004 -1.986e-004 elocal
19 -3.281 -1.638 -0.313 1.034e-003 6.887e-004 -3.449e-004 1.926e-004
1.719e-004 -2.071e-005 0.000e+000 -2.346e-004 -2.346e-004 elocal
20 -3.561 -2.277 -0.627 9.391e-004 6.941e-004 -2.451e-004 1.890e-004
1.768e-004 -1.215e-005 0.000e+000 -1.921e-004 -1.921e-004 elocal
21 -3.531 -2.638 -0.313 9.584e-004 7.202e-004 -2.381e-004 1.853e-004
1.959e-004 1.059e-005 0.000e+000 -2.315e-004 -2.315e-004 elocal
22 -3.895 -3.032 -0.627 7.732e-004 6.554e-004 -1.179e-004 4.316e-004
2.063e-004 -2.253e-004 0.000e+000 -1.949e-004 -1.949e-004 elocal
23 -3.947 -3.227 -0.313 8.155e-004 -2.464e-004 -1.062e-003 3.772e-004
2.014e-004 -5.786e-004 0.000e+000 -2.654e-004 -2.654e-004 elocal
24 -4.395 -3.454 -0.627 7.812e-004 -2.442e-004 -1.025e-003 3.790e-004
1.900e-004 -5.690e-004 0.000e+000 -1.907e-004 -1.907e-004 elocal
25 -4.447 -3.727 -0.313 7.894e-004 -2.829e-004 -1.072e-003 3.822e-004
2.305e-004 -6.127e-004 0.000e+000 -2.141e-004 -2.141e-004 elocal
26 -4.895 -3.954 -0.627 7.593e-004 4.752e-004 -2.841e-004 3.589e-0

44 -3.356 2.419 -1.253 8.705e-004 -3.363e-004 -1.207e-003 1.928e-004 -
6.353e-005 -2.563e-004 0.000e+000 -1.137e-004 -1.137e-004 elocal
45 -3.570 1.976 -1.566 8.659e-004 5.316e-004 -3.343e-004 6.921e-005
7.275e-005 3.538e-006 0.000e+000 -4.266e-005 -4.266e-005 elocal
46 -3.456 1.780 -1.253 9.042e-004 5.576e-004 -3.466e-004 6.982e-005
8.378e-005 1.396e-005 0.000e+000 -1.057e-004 -1.057e-004 elocal
47 -3.570 1.585 -1.566 8.873e-004 5.548e-004 -3.325e-004 6.584e-005
7.509e-005 9.252e-006 0.000e+000 -4.376e-005 -4.376e-005 elocal
48 -3.456 1.528 -1.253 8.958e-004 5.632e-004 -3.326e-004 6.466e-005
8.323e-005 1.857e-005 0.000e+000 -1.073e-004 -1.073e-004 elocal
49 -3.570 1.167 -1.566 8.886e-004 5.632e-004 -3.254e-004 6.137e-005
7.601e-005 1.464e-005 0.000e+000 -1.031e-004 -1.031e-004 elocal
50 -3.456 0.833 -1.253 9.432e-004 5.997e-004 -3.435e-004 7.095e-005
9.139e-005 2.043e-005 0.000e+000 -1.031e-004 -1.031e-004 elocal
51 -3.570 0.167 -1.566 9.214e-004 6.039e-004 -3.175e-004 6.880e-005
8.793e-005 1.913e-005 0.000e+000 -5.164e-005 -5.164e-005 elocal
52 -3.456 -0.167 -1.253 9.711e-004 -1.553e-004 -1.126e-003 8.141e-005
2.798e-005 -5.343e-005 0.000e+000 -1.066e-004 -1.066e-004 elocal
53 -3.570 -0.667 -1.566 9.393e-004 6.415e-004 -2.978e-004 8.637e-005
1.057e-004 1.931e-005 0.000e+000 -5.056e-005 -5.056e-005 elocal
54 -3.456 -0.833 -1.253 9.661e-004 6.653e-004 -3.008e-004 9.671e-005
1.223e-004 2.556e-005 0.000e+000 -1.162e-004 -1.162e-004 elocal
55 -3.653 -1.276 -1.566 8.975e-004 -2.641e-004 -1.162e-003 2.089e-004 -
3.833e-005 -2.473e-004 0.000e+000 -6.238e-005 -6.238e-005 elocal
56 -3.623 -1.581 -1.253 9.266e-004 6.564e-004 -2.702e-004 2.051e-004
1.679e-004 -3.720e-005 0.000e+000 -1.141e-004 -1.141e-004 elocal
57 -3.903 -2.191 -1.566 8.163e-004 -1.745e-004 -9.908e-004 1.731e-004 -
1.973e-005 -1.928e-004 0.000e+000 -4.666e-005 -4.666e-005 elocal
58 -3.873 -2.553 -1.253 8.400e-004 -1.695e-004 -1.010e-003 1.614e-004 -
7.410e-006 -1.688e-004 0.000e+000 -9.491e-005 -9.491e-005 elocal
59 -4.237 -2.869 -1.566 6.490e-004 -7.633e-005 -7.254e-004 4.034e-004 -
1.474e-004 -5.509e-004 0.000e+000 -8.361e-005 -8.361e-005 elocal
60 -4.289 -2.986 -1.253 6.938e-004 -1.528e-004 -8.465e-004 3.898e-004 -
1.515e-004 -5.413e-004 0.000e+000 -1.654e-004 -1.654e-004 elocal
61 -4.737 -3.135 -1.566 6.989e-004 -1.991e-004 -8.980e-004 3.256e-004 -
1.034e-004 -4.290e-004 0.000e+000 -7.855e-005 -7.855e-005 elocal
62 -4.789 -3.408 -1.253 7.206e-004 4.968e-004 -2.237e-004 3.418e-004 -
2.045e-004 -1.372e-004 0.000e+000 -1.131e-004 -1.131e-004 elocal
63 -5.237 -3.635 -1.566 6.862e-004 -2.390e-004 -9.251e-004 3.232e-004 -
1.281e-004 -4.513e-004 0.000e+000 -4.589e-005 -4.589e-005 elocal
64 -5.289 -3.908 -1.253 7.054e-004 4.405e-004 -2.649e-004 3.092e-004 -
1.588e-004 -1.504e-004 0.000e+000 -7.858e-005 -7.858e-005 elocal
65 -5.570 -4.111 -1.566 7.246e-004 4.422e-004 -2.824e-004 2.384e-005
1.508e-005 -8.757e-006 0.000e+000 -2.236e-005 -2.236e-005 elocal
66 -5.456 -4.289 -1.253 7.390e-004 4.608e-004 -2.782e-004 3.592e-005
3.481e-005 -1.107e-006 0.000e+000 -7.866e-005 -7.866e-005 elocal
67 -5.617 -4.492 -1.566 7.119e-004 4.514e-004 -2.605e-004 1.323e-004
7.802e-005 -5.429e-005 0.000e+000 -2.787e-005 -2.787e-005 elocal
68 -5.549 -4.694 -1.253 7.349e-004 -2.694e-004 -1.004e-003 1.484e-004 -
6.393e-005 -2.123e-004 0.000e+000 -7.721e-005 -7.721e-005 elocal
69 -5.807 -5.159 -1.566 6.889e-004 -2.491e-004 -9.380e-004 1.674e-004 -
6.81e-005 -2.355e-004 0.000e+000 -2.368e-005 -2.368e-005 elocal
70 -5.789 -5.527 -1.253 7.122e-004 -2.611e-004 -9.733e-004 1.770e-004 -
7.565e-005 -2.527e-004 0.000e+000 -5.663e-005 -5.663e-005 elocal
71 -6.093 -6.159 -1.566 6.111e-004 3.890e-004 -2.221e-004 1.734e-004
1.038e-004 -6.959e-005 0.000e+000 -9.093e-006 -9.093e-006 elocal

100 -5.579 -3.316 -2.506 5.859e-004 3.934e-004 -1.925e-004 2.959e-004
2.212e-004 -7.467e-005 0.000e+000 2.914e-005 2.914e-005 elocal
101 -5.631 -3.589 -2.192 6.105e-004 -2.186e-004 -8.292e-004 2.810e-004 -
8.927e-005 -3.703e-004 0.000e+000 5.594e-006 5.594e-006 elocal
102 -5.912 -3.864 -2.506 6.129e-004 3.803e-004 -2.326e-004 3.361e-005
5.081e-006 -2.852e-005 0.000e+000 5.430e-005 5.430e-005 elocal
103 -5.798 -4.113 -2.192 6.418e-004 4.055e-004 -2.363e-004 4.429e-005
2.177e-005 -2.252e-005 0.000e+000 1.730e-005 1.730e-005 elocal
104 -5.959 -4.388 -2.506 6.017e-004 3.918e-004 -2.099e-004 1.290e-004
8.328e-005 -4.571e-005 0.000e+000 5.018e-005 5.018e-005 elocal
105 -5.891 -4.589 -2.192 6.253e-004 4.052e-004 -2.200e-004 1.427e-004
8.928e-005 -5.341e-005 0.000e+000 1.511e-005 1.511e-005 elocal
106 -6.149 -5.054 -2.506 5.778e-004 3.763e-004 -2.016e-004 1.570e-004
1.018e-004 -5.518e-005 0.000e+000 4.913e-005 4.913e-005 elocal
107 -6.131 -5.423 -2.192 6.066e-004 3.904e-004 -2.162e-004 1.667e-004
1.059e-004 -6.081e-005 0.000e+000 2.540e-005 2.540e-005 elocal
108 -6.435 -6.054 -2.506 5.195e-004 -1.844e-004 -7.040e-004 1.600e-004
5.372e-005 -2.137e-004 0.000e+000 5.113e-005 5.113e-005 elocal
109 -6.415 -6.423 -2.192 5.250e-004 3.347e-004 -1.903e-004 1.592e-004
1.041e-004 -5.516e-005 0.000e+000 3.249e-005 3.249e-005 elocal
110 -6.719 -7.054 -2.506 3.890e-004 2.514e-004 -1.375e-004 1.355e-004
9.526e-005 -4.020e-005 0.000e+000 5.193e-005 5.193e-005 elocal
111 -6.701 -7.423 -2.192 3.497e-004 2.253e-004 -1.243e-004 1.130e-004
8.030e-005 -3.269e-005 0.000e+000 4.054e-005 4.054e-005 elocal
112 -3.954 5.667 -3.446 2.789e-004 -8.409e-005 -3.630e-004 -6.923e-006
4.555e-006 1.148e-005 0.000e+000 5.466e-005 5.466e-005 elocal
113 -3.840 5.333 -3.132 3.552e-004 -1.156e-004 -4.707e-004 1.100e-006
4.300e-006 3.199e-006 0.000e+000 4.537e-005 4.537e-005 elocal
114 -3.954 4.667 -3.446 4.137e-004 -1.328e-004 -5.465e-004 4.532e-006 -
8.544e-007 -5.387e-006 0.000e+000 6.903e-005 6.903e-005 elocal
115 -3.840 4.333 -3.132 4.821e-004 -1.585e-004 -6.406e-004 1.555e-005 -
1.403e-006 -1.695e-005 0.000e+000 5.499e-005 5.499e-005 elocal
116 -3.954 3.667 -3.446 4.666e-004 -1.496e-004 -6.362e-004 2.277e-005 -
6.230e-006 -2.900e-005 0.000e+000 8.187e-005 8.187e-005 elocal
117 -3.840 3.333 -3.132 5.554e-004 -1.736e-004 -7.290e-004 3.693e-005 -
5.808e-006 -4.274e-005 0.000e+000 6.506e-005 6.506e-005 elocal
118 -4.054 2.780 -3.446 5.115e-004 3.484e-004 -1.631e-004 1.359e-004
1.277e-004 -8.201e-006 0.000e+000 8.339e-005 8.339e-005 elocal
119 -4.040 2.532 -3.132 5.721e-004 -1.939e-004 -7.660e-004 1.418e-004 -
1.918e-005 -1.609e-004 0.000e+000 6.245e-005 6.245e-005 elocal
120 -4.254 2.146 -3.446 5.456e-004 3.624e-004 -1.832e-004 3.977e-005
2.084e-005 -1.892e-005 0.000e+000 1.036e-004 1.036e-004 elocal
121 -4.140 1.951 -3.132 5.927e-004 -2.013e-004 -7.940e-004 4.009e-005 -
1.272e-005 -5.281e-005 0.000e+000 7.727e-005 7.727e-005 elocal
122 -4.254 1.699 -3.446 5.567e-004 3.770e-004 -1.797e-004 3.478e-005
2.156e-005 -1.323e-005 0.000e+000 1.075e-004 1.075e-004 elocal
123 -4.140 1.585 -3.132 5.857e-004 -1.906e-004 -7.764e-004 3.467e-005 -
7.677e-006 -4.235e-005 0.000e+000 7.841e-005 7.841e-005 elocal
124 -4.254 1.167 -3.446 5.581e-004 3.855e-004 -1.727e-004 2.916e-005
2.209e-005 -7.069e-006 0.000e+000 1.057e-004 1.057e-004 elocal
125 -4.140 0.833 -3.132 6.305e-004 -2.010e-004 -8.316e-004 3.846e-005 -
4.300e-006 -4.276e-005 0.000e+000 8.339e-005 8.339e-005 elocal
126 -4.254 0.167 -3.446 5.853e-004 4.134e-004 -1.720e-004 3.624e-005
3.298e-005 -3.258e-006 0.000e+000 1.064e-004 1.064e-004 elocal
127 -4.140 -0.167 -3.132 6.595e-004 -1.976e-004 -8.571e-004 5.213e-005 -
1.985e-006 -5.411e-005 0.000e+000 8.227e-005 8.227e-005 elocal

72 -6.073 -6.527 -1.253 6.066e-004 -2.244e-004 -8.310e-004 1.702e-004 -
7.317e-005 -2.434e-004 0.000e+000 -3.204e-005 -3.204e-005 elocal
73 -6.377 -7.159 -1.566 4.429e-004 2.824e-004 -1.605e-004 1.483e-004
9.057e-005 -5.777e-005 0.000e+000 1.071e-005 1.071e-005 elocal
74 -6.359 -7.527 -1.253 3.894e-004 -1.429e-004 -5.323e-004 1.221e-004 -
5.178e-005 -1.739e-004 0.000e+000 1.371e-006 1.371e-006 elocal
75 -3.612 5.667 -2.506 3.486e-004 2.297e-004 -1.190e-004 -6.607e-006
1.142e-005 1.803e-005 0.000e+000 2.573e-005 2.573e-005 elocal
76 -3.498 5.333 -2.192 4.349e-004 2.805e-004 -1.545e-004 1.115e-006
2.203e-005 2.092e-005 0.000e+000 5.085e-006 5.085e-006 elocal
77 -3.612 4.667 -2.506 5.326e-004 3.445e-004 -1.881e-004 7.379e-006
2.008e-005 1.270e-005 0.000e+000 2.849e-005 2.849e-005 elocal
78 -3.498 4.333 -2.192 6.037e-004 3.898e-004 -2.138e-004 1.882e-005
3.385e-005 1.503e-005 0.000e+000 7.116e-007 7.116e-007 elocal
79 -3.612 3.667 -2.506 6.343e-004 4.195e-004 -2.148e-004 2.961e-005
3.569e-005 6.077e-006 0.000e+000 3.219e-005 3.219e-005 elocal
80 -3.498 3.333 -2.192 7.002e-004 4.637e-004 -2.365e-004 4.451e-005
5.297e-005 8.460e-006 0.000e+000 1.407e-007 1.407e-007 elocal
81 -3.712 2.752 -2.506 6.734e-004 -2.343e-004 -9.077e-004 1.606e-004 -
3.042e-005 -1.910e-004 0.000e+000 2.958e-005 2.958e-005 elocal
82 -3.698 2.476 -2.192 7.321e-004 -2.694e-004 -1.002e-003 1.670e-004 -
4.025e-005 -2.072e-004 0.000e+000 -5.039e-006 -5.039e-006 elocal
83 -3.912 2.061 -2.506 7.175e-004 4.526e-004 -2.649e-004 5.347e-005
4.330e-005 -1.017e-005 0.000e+000 5.069e-005 5.069e-005 elocal
84 -3.798 1.866 -2.192 7.602e-004 4.801e-004 -2.800e-004 5.405e-005
5.236e-005 -1.693e-006 0.000e+000 7.532e-006 7.532e-006 elocal
85 -3.912 1.642 -2.506 7.349e-004 4.718e-004 -2.631e-004 4.977e-005
4.540e-005 -4.375e-006 0.000e+000 5.336e-005 5.336e-005 elocal
86 -3.798 1.557 -2.192 7.530e-004 4.845e-004 -2.685e-004 4.899e-005
5.223e-005 3.249e-006 0.000e+000 7.124e-006 7.124e-006 elocal
87 -3.912 1.167 -2.506 7.373e-004 4.819e-004 -2.553e-004 4.480e-005
4.653e-005 1.725e-006 0.000e+000 4.930e-005 4.930e-005 elocal
88 -3.798 0.833 -2.192 8.003e-004 5.226e-004 -2.777e-004 5.359e-005
6.018e-005 6.588e-006 0.000e+000 1.130e-005 1.130e-005 elocal
89 -3.912 0.167 -2.506 7.715e-004 5.195e-004 -2.521e-004 5.186e-005
5.861e-005 6.747e-006 0.000e+000 4.925e-005 4.925e-005 elocal
90 -3.798 -0.167 -2.192 8.433e-004 5.676e-004 -2.756e-004 6.744e-005
7.624e-005 8.808e-006 0.000e+000 8.223e-006 8.223e-006 elocal
91 -3.912 -0.667 -2.506 7.952e-004 5.561e-004 -2.391e-004 7.736e-005
8.205e-005 4.690e-006 0.000e+000 4.866e-005 4.866e-005 elocal
92 -3.798 -0.833 -2.192 8.288e-004 5.851e-004 -2.437e-004 9.034e-005
9.786e-005 7.512e-006 0.000e+000 1.404e-006 1.404e-006 elocal
93 -3.995 -1.248 -2.506 7.514e-004 -2.067e-004 -9.580e-004 2.057e-004 -
2.351e-005 -2.292e-004 0.000e+000 3.529e-005 3.529e-005 elocal
94 -3.965 -1.524 -2.192 7.872e-004 5.776e-004 -2.097e-004 2.115e-004
1.848e-004 -2.667e-005 0.000e+000 -1.529e-006 -1.529e-006 elocal
95 -4.412 -2.039 -2.506 6.084e-004 -1.384e-004 -7.468e-004 3.428e-004 -
5.564e-005 -3.985e-004 0.000e+000 7.531e-006 7.531e-006 elocal
96 -4.381 -2.400 -2.192 7.529e-004 5.865e-004 -1.664e-004 1.170e-004
1.114e-004 -5.606e-006 0.000e+000 -6.422e-005 -6.422e-005 elocal
97 -4.631 -2.745 -2.192 5.272e-004 4.203e-004 -1.069e-004 4.653e-004
3.587e-004 -1.086e-004 0.000e+000 -9.208e-005 -9.208e-005 elocal
98 -5.079 -2.816 -2.506 5.985e-004 4.356e-004 -1.629e-004 3.102e-004
2.537e-004 -5.645e-005 0.000e+000 8.151e-006 8.151e-006 elocal
99 -5.131 -3.089 -2.192 6.244e-004 4.413e-004 -1.831e-004 3.158e-004
2.381e-004 -7.775e-005 0.000e+000 -1.893e-005 -1.893e-005 elocal

128 -4.254 -0.667 -3.446 6.117e-004 4.445e-004 -1.672e-004 6.477e-005
5.815e-005 -6.619e-006 0.000e+000 1.083e-004 1.083e-004 elocal
129 -4.140 -0.833 -3.132 6.580e-004 -1.770e-004 -8.350e-004 8.226e-005 -
5.239e-006 -8.750e-005 0.000e+000 7.767e-005 7.767e-005 elocal
130 -4.337 -1.220 -3.446 5.771e-004 -1.442e-004 -7.212e-004 1.876e-004 -
9.231e-006 -1.968e-004 0.000e+000 9.507e-005 9.507e-005 elocal
131 -4.307 -1.468 -3.132 6.271e-004 -1.513e-004 -7.784e-004 2.012e-004 -
1.494e-005 -2.162e-004 0.000e+000 7.115e-005 7.115e-005 elocal
132 -4.754 -1.876 -3.446 4.661e-004 3.621e-004 -1.040e-004 3.180e-004
3.093e-004 -8.728e-006 0.000e+000 4.490e-005 4.490e-005 elocal
133 -4.890 -2.170 -3.132 5.402e-004 4.161e-004 -1.241e-004 3.117e-004
2.785e-004 -3.320e-005 0.000e+000 3.122e-005 3.122e-005 elocal
134 -5.421 -2.497 -3.446 4.797e-004 3.642e-004 -1.155e-004 2.944e-004
2.619e-004 -3.253e-005 0.000e+000 6.104e-005 6.104e-005 elocal
135 -5.473 -2.770 -3.132 5.116e-004 3.750e-004 -1.367e-004 2.959e-004
2.520e-004 -4.391e-005 0.000e+000 4.409e-005 4.409e-005 elocal
136 -5.921 -2.997 -3.446 4.603e-004 3.287e-004 -1.316e-004 2.620e-004
2.254e-004 -3.659e-005 0.000e+000 7.370e-005 7.370e-005 elocal
137 -5.973 -3.270 -3.132 4.923e-004 3.323e-004 -1.600e-004 2.502e-004
2.037e-004 -4.652e-005 0.000e+000 5.949e-005 5.949e-005 elocal
138 -6.254 -3.616 -3.446 4.755e-004 3.072e-004 -1.682e-004 4.187e-005 -
2.188e-006 -4.406e-005 0.000e+000 9.798e-005 9.798e-005 elocal
139 -6.140 -3.937 -3.132 5.220e-004 3.396e-004 -1.825e-004 5.236e-005
1.299e-005 -3.937e-005 0.000e+000 7.772e-005 7.772e-005 elocal
140 -6.301 -4.283 -3.446 4.712e-004 3.203e-004 -1.508e-004 1.190e-004
8.167e-005 -3.731e-005 0.000e+000 9.609e-005 9.609e-005 elocal
141 -6.233 -4.485 -3.132 5.006e-004 -1.643e-004 -6.650e-004 1.318e-004 -
3.656e-005 -1.755e-004 0.000e+000 7.286e-005 7.286e-005 elocal
142 -

156 -4.596 2.231 -4.385 3.294e-004 2.504e-004 -7.898e-005 2.445e-005
 3.473e-006 -2.097e-005 0.000e+000 1.252e-004 1.252e-004 elocal
 157 -4.482 2.036 -4.072 3.909e-004 1.054e-004 -4.963e-004 2.490e-005 -
 1.703e-005 -4.194e-005 0.000e+000 1.125e-004 1.125e-004 elocal
 158 -4.596 1.756 -4.385 3.339e-004 2.586e-004 -7.537e-005 1.763e-005
 2.861e-006 -1.477e-005 0.000e+000 1.286e-004 1.286e-004 elocal
 159 -4.482 1.614 -4.072 3.806e-004 2.860e-004 -9.461e-005 1.819e-005
 6.394e-006 -1.179e-005 0.000e+000 1.151e-004 1.151e-004 elocal
 160 -4.596 1.167 -4.385 3.272e-004 2.602e-004 -6.699e-005 9.675e-006
 1.807e-006 -7.869e-006 0.000e+000 1.295e-004 1.295e-004 elocal
 161 -4.482 0.833 -4.072 4.231e-004 3.152e-004 -1.079e-004 2.109e-005
 1.184e-005 -9.245e-006 0.000e+000 1.196e-004 1.196e-004 elocal
 162 -4.596 0.167 -4.385 3.432e-004 2.758e-004 -6.742e-005 1.368e-005
 7.458e-006 -6.217e-006 0.000e+000 1.319e-004 1.319e-004 elocal
 163 -4.482 -0.167 -4.072 4.435e-004 3.353e-004 -1.082e-004 3.231e-005
 2.296e-005 -9.358e-006 0.000e+000 1.198e-004 1.198e-004 elocal
 164 -4.596 -0.667 -4.385 3.701e-004 2.954e-004 -7.473e-005 3.874e-005
 2.523e-005 -1.351e-005 0.000e+000 1.328e-004 1.328e-004 elocal
 165 -4.482 -0.833 -4.072 4.372e-004 3.430e-004 -9.416e-005 5.962e-005
 4.589e-005 -1.374e-005 0.000e+000 1.171e-004 1.171e-004 elocal
 166 -4.679 -1.191 -4.385 3.435e-004 2.797e-004 -6.380e-005 1.372e-004
 1.458e-004 8.609e-006 0.000e+000 1.212e-004 1.212e-004 elocal
 167 -4.649 -1.411 -4.072 4.197e-004 3.405e-004 -7.923e-005 1.598e-004
 1.594e-004 -4.057e-007 0.000e+000 1.112e-004 1.112e-004 elocal
 168 -5.096 -1.713 -4.385 2.536e-004 2.096e-004 -4.406e-005 2.261e-004
 2.788e-004 5.270e-005 0.000e+000 4.271e-005 4.271e-005 elocal
 169 -5.232 -1.929 -4.072 3.522e-004 -5.657e-005 -4.088e-004 2.537e-004
 1.773e-005 -2.360e-004 0.000e+000 4.839e-005 4.839e-005 elocal
 170 -5.763 -2.178 -4.385 2.936e-004 -3.348e-005 -3.271e-004 2.049e-004
 8.467e-006 -1.964e-004 0.000e+000 8.123e-005 8.123e-005 elocal
 171 -5.815 -2.451 -4.072 3.527e-004 -6.438e-005 -4.171e-004 2.256e-004 -
 1.429e-006 -2.271e-004 0.000e+000 7.436e-005 7.436e-005 elocal
 172 -6.263 -2.678 -4.385 2.818e-004 -4.269e-005 -3.245e-004 1.846e-004
 1.107e-005 -1.736e-004 0.000e+000 8.754e-005 8.754e-005 elocal
 173 -6.315 -2.951 -4.072 3.341e-004 2.569e-004 -7.724e-005 1.901e-004
 1.895e-004 -5.235e-007 0.000e+000 8.317e-005 8.317e-005 elocal
 174 -6.596 -3.369 -4.385 2.793e-004 2.080e-004 -7.125e-005 2.877e-005 -
 1.159e-005 -4.036e-005 0.000e+000 1.174e-004 1.174e-004 elocal
 175 -6.482 -3.761 -4.072 3.617e-004 2.528e-004 -1.088e-004 4.543e-005
 2.710e-006 -4.272e-005 0.000e+000 1.089e-004 1.089e-004 elocal
 176 -6.643 -4.179 -4.385 2.925e-004 2.210e-004 -7.152e-005 8.767e-005
 6.856e-005 -1.911e-005 0.000e+000 1.158e-004 1.158e-004 elocal
 177 -6.575 -4.380 -4.072 3.388e-004 2.468e-004 -9.205e-005 1.031e-004
 7.602e-005 -2.710e-005 0.000e+000 1.031e-004 1.031e-004 elocal
 178 -6.833 -4.845 -4.385 2.707e-004 2.054e-004 -6.536e-005 9.893e-005
 7.810e-005 -2.082e-005 0.000e+000 1.100e-004 1.100e-004 elocal
 179 -6.815 -5.214 -4.072 3.404e-004 2.406e-004 -9.981e-005 1.216e-004
 9.045e-005 -3.111e-005 0.000e+000 1.007e-004 1.007e-004 elocal
 180 -7.119 -5.845 -4.385 2.548e-004 1.879e-004 -6.694e-005 1.023e-004
 0.078e-005 -2.150e-005 0.000e+000 1.010e-004 1.010e-004 elocal
 181 -7.099 -6.214 -4.072 3.100e-004 -9.591e-005 -4.059e-004 1.186e-004 -
 2.863e-005 -1.472e-004 0.000e+000 9.101e-005 9.101e-005 elocal
 182 -7.403 -6.845 -4.385 2.109e-004 1.534e-004 -5.746e-005 9.424e-005
 7.815e-005 -1.608e-005 0.000e+000 8.553e-005 8.553e-005 elocal
 183 -7.385 -7.214 -4.072 2.284e-004 1.591e-004 -6.930e-005 9.158e-005
 7.683e-005 -1.475e-005 0.000e+000 7.657e-005 7.657e-005 elocal

23 -2.870 -6.333 -1.566 6.851e-004 3.068e-004 -3.783e-004 6.804e-005
 6.638e-005 -1.652e-006 0.000e+000 -9.865e-005 -9.865e-005 elocal
 24 -2.756 -6.667 -1.253 7.053e-004 -3.900e-004 -1.095e-003 8.282e-005 -
 8.862e-006 -9.168e-005 0.000e+000 -1.327e-004 -1.327e-004 elocal
 25 -2.870 -7.333 -1.566 6.316e-004 2.796e-004 -3.520e-004 7.340e-005
 6.179e-005 -1.161e-005 0.000e+000 -8.000e-005 -8.000e-005 elocal
 26 -2.756 -7.667 -1.253 6.240e-004 -3.486e-004 -9.726e-004 8.011e-005 -
 1.637e-005 -9.648e-005 0.000e+000 -1.014e-004 -1.014e-004 elocal
 27 -2.870 -8.333 -1.566 4.694e-004 1.984e-004 -2.709e-004 6.682e-005
 4.953e-005 -1.729e-005 0.000e+000 -5.301e-005 -5.301e-005 elocal
 28 -2.756 -8.667 -1.253 4.096e-004 -2.426e-004 -6.523e-004 5.557e-005 -
 1.315e-005 -6.873e-005 0.000e+000 -6.003e-005 -6.003e-005 elocal
 29 -3.212 -2.333 -2.506 2.347e-004 3.184e-005 -2.028e-004 -3.597e-005 -
 1.147e-005 2.450e-005 0.000e+000 -1.341e-006 -1.341e-006 elocal
 30 -3.098 -2.667 -2.193 2.961e-004 -2.312e-004 -5.273e-004 -2.797e-005
 2.577e-005 5.375e-005 0.000e+000 -3.888e-005 -3.888e-005 elocal
 31 -3.212 -3.333 -2.506 4.098e-004 1.471e-004 -2.628e-004 -2.075e-005
 4.198e-006 2.495e-005 0.000e+000 -1.671e-005 -1.671e-005 elocal
 32 -3.098 -3.667 -2.193 4.698e-004 -2.888e-004 -7.585e-004 -2.444e-006
 2.114e-005 2.358e-005 0.000e+000 -5.789e-005 -5.789e-005 elocal
 33 -3.212 -4.333 -2.506 5.171e-004 2.183e-004 -2.988e-004 4.067e-007
 2.051e-005 2.010e-005 0.000e+000 -1.545e-005 -1.545e-005 elocal
 34 -3.098 -4.667 -2.193 5.688e-004 -3.227e-004 -8.915e-004 1.941e-005
 1.579e-005 -3.619e-006 0.000e+000 -5.453e-005 -5.453e-005 elocal
 35 -3.212 -5.333 -2.506 5.739e-004 2.524e-004 -3.215e-004 6.320e-006
 2.548e-005 1.919e-005 0.000e+000 -1.032e-005 -1.032e-005 elocal
 36 -3.098 -5.667 -2.193 6.184e-004 -3.437e-004 -9.621e-004 2.377e-005
 1.483e-005 -8.938e-006 0.000e+000 -4.811e-005 -4.811e-005 elocal
 37 -3.212 -6.333 -2.506 5.912e-004 2.599e-004 -3.313e-004 1.391e-005
 2.803e-005 1.412e-005 0.000e+000 -1.242e-005 -1.242e-005 elocal
 38 -3.098 -6.667 -2.193 6.223e-004 -3.471e-004 -9.695e-004 3.276e-005
 2.086e-006 2.555e-005 0.000e+000 -4.566e-005 -4.566e-005 elocal
 39 -3.212 -7.333 -2.506 5.519e-004 2.390e-004 -3.128e-004 3.260e-005
 3.096e-005 1.642e-006 0.000e+000 -1.422e-005 -1.422e-005 elocal
 40 -3.098 -7.667 -2.193 5.569e-004 -3.148e-004 -8.718e-004 4.632e-005 -
 7.232e-006 -5.355e-005 0.000e+000 -3.763e-005 -3.763e-005 elocal
 41 -3.212 -8.333 -2.506 4.212e-004 1.746e-004 -2.466e-004 4.030e-005
 2.707e-005 1.323e-005 0.000e+000 -9.925e-006 -9.925e-006 elocal
 42 -3.098 -8.667 -2.193 3.771e-004 -2.242e-004 -6.019e-004 3.765e-005 -
 1.097e-005 -4.862e-005 0.000e+000 -2.296e-005 -2.296e-005 elocal
 43 -3.554 -2.333 -3.446 2.147e-004 -1.626e-004 -3.772e-004 -4.423e-005
 1.855e-005 6.278e-005 0.000e+000 7.123e-005 7.123e-005 elocal
 44 -3.440 -2.667 -3.132 2.714e-004 -1.932e-004 -4.645e-004 -3.788e-005
 2.220e-005 6.008e-005 0.000e+000 3.789e-005 3.789e-005 elocal
 45 -3.554 -3.333 -3.446 3.385e-004 -2.096e-004 -5.480e-004 -3.627e-005
 2.310e-005 5.938e-005 0.000e+000 6.372e-005 6.372e-005 elocal
 46 -3.440 -3.667 -3.132 3.924e-004 -2.379e-004 -6.303e-004 -2.586e-005
 2.320e-005 4.906e-005 0.000e+000 3.435e-005 3.435e-005 elocal
 47 -3.554 -4.333 -3.446 4.079e-004 -2.376e-004 -6.455e-004 -3.203e-005
 2.393e-005 5.596e-005 0.000e+000 6.653e-005 6.653e-005 elocal
 48 -3.440 -4.667 -3.132 4.635e-004 -2.661e-004 -7.297e-004 -2.203e-005
 2.368e-005 4.571e-005 0.000e+000 3.715e-005 3.715e-005 elocal
 49 -3.554 -5.333 -3.446 4.495e-004 -2.581e-004 -7.076e-004 -3.260e-005
 2.548e-005 5.808e-005 0.000e+000 6.319e-005 6.319e-005 elocal
 50 -3.440 -5.667 -3.132 5.035e-004 -2.862e-004 -7.897e-004 -2.091e-005
 2.406e-005 4.497e-005 0.000e+000 3.233e-005 3.233e-005 elocal

OBJECT: irf
 ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT U2(+)	X1C U2(-)	X2C	X3C B3	B1 U3(+)	U1(+) U3(-)	U1(-) Coord Sys	B2
1	-2.528	-2.333	-0.626	3.458e-004	-2.856e-004	-6.314e-004	5.812e-005
1.581e-005	-4.231e-005	0.000e+000	-2.582e-004	-2.582e-004	elocal		
2	-2.414	-2.667	-0.313	4.389e-004	-3.262e-004	-7.651e-004	1.167e-004
2.657e-006	-1.194e-004	0.000e+000	-3.145e-004	-3.145e-004	elocal		
3	-2.528	-3.333	-0.626	5.543e-004	-3.556e-004	-9.099e-004	1.001e-004
4.178e-006	-1.043e-004	0.000e+000	-2.733e-004	-2.733e-004	elocal		
4	-2.414	-3.667	-0.313	6.085e-004	-3.853e-004	-9.938e-004	1.457e-004
2.019e-005	-1.658e-004	0.000e+000	-3.169e-004	-3.169e-004	elocal		
5	-2.528	-4.333	-0.626	6.697e-004	-3.938e-004	-1.063e-003	1.360e-004
2.078e-005	-1.568e-004	0.000e+000	-2.673e-004	-2.673e-004	elocal		
6	-2.414	-4.667	-0.313	7.073e-004	-4.205e-004	-1.128e-003	1.615e-004
3.383e-005	-1.953e-004	0.000e+000	-2.923e-004	-2.923e-004	elocal		
7	-2.528	-5.333	-0.626	7.357e-004	-4.186e-004	-1.154e-003	1.374e-004
2.656e-005	-1.640e-004	0.000e+000	-2.370e-004	-2.370e-004	elocal		
8	-2.414	-5.667	-0.313	7.611e-004	-4.422e-004	-1.203e-003	1.475e-004
3.567e-005	-1.832e-004	0.000e+000	-2.526e-004	-2.526e-004	elocal		
9	-2.528	-6.333	-0.626	7.525e-004	-4.255e-004	-1.178e-003	1.184e-004
2.439e-005	-1.428e-004	0.000e+000	-2.002e-004	-2.002e-004	elocal		
10	-2.414	-6.667	-0.313	7.617e-004	-4.401e-004	-1.202e-003	1.156e-004
2.845e-005	-1.441e-004	0.000e+000	-2.086e-004	-2.086e-004	elocal		
11	-2.528	-7.333	-0.626	6.932e-004	-3.928e-004	-1.086e-003	9.553e-005
2.287e-005	-1.184e-004	0.000e+000	-1.578e-004	-1.578e-004	elocal		
12	-2.414	-7.667	-0.313	6.757e-004	-3.901e-004	-1.066e-003	7.768e-005
2.065e-005	-9.833e-005	0.000e+000	-1.576e-004	-1.576e-004	elocal		
13	-2.528	-8.333	-0.626	5.065e-004	-2.961e-004	-8.026e-004	6.955e-005
2.027e-005	-8.982e-005	0.000e+000	-1.022e-004	-1.022e-004	elocal		
14	-2.414	-8.667	-0.313	4.363e-004	-2.647e-004	-7.010e-004	3.544e-005
1.100e-005	-4.645e-005	0.000e+000	-8.900e-005	-8.900e-005	elocal		
15	-2.870	-2.333	-1.566	2.821e-004	3.853e-005	-2.436e-004	-1.149e-005
1.417e-005	2.566e-005	0.000e+000	-9.618e-005	-9.618e-005	elocal		
16	-2.756	-2.667	-1.253	3.690e-004	-2.762e-004	-6.452e-004	8.413e-006
2.211e-005	1.370e-005	0.000e+000	-1.558e-004	-1.558e-004	elocal		
17	-2.870	-3.333	-1.566	4.817e-004	1.735e-004	-3.082e-004	7.214e-006
2.722e-005	2.001e-005	0.000e+000	-1.247e-004	-1.247e-004	elocal		
18	-2.756	-3.667	-1.253	5.469e-004	-3.334e-004	-8.803e-004	4.650e-005
9.981e-006	3.652e-005	0.000e+000	-1.836e-004	-1.836e-004	elocal		
19	-2.870	-4.333	-1.566	6.033e-004	2.569e-004	-3.464e-004	5.422e-005
6.020e-005	5.987e-006	0.000e+000	-1.303e-004	-1.303e-004	elocal		
20	-2.756	-4.667	-1.253	6.510e-004	-3.680e-004	-1.019e-003	8.297e-005
2.630e-006	-8.560e-005	0.000e+000	-1.769e-004	-1.769e-004	elocal		
21	-2.870	-5.333	-1.566	6.687e-004	2.983e-004	-3.704e-004	6.736e-005
6.850e-005	1.146e-006	0.000e+000	-1.145e-004	-1.145e-004	elocal		
22	-2.756	-5.667	-1.253	7.046e-004	-3.894e-004	-1.094e-003	8.652e-005
5.628e-006	-9.215e-005	0.000e+000	-1.557e-004	-1.557e-004	elocal		

2-D OBSERVATION GRID: Fig6area
 OBS POINT COORD SYS: global
 OUTPUT COORD SYS: global

PRINCIPAL STRESSES:

SIG2	X1 N1	X2 N2	X3 N3	N1 SIG3	N2	N3	SIG1	N1	N2	N3
-3.990	-1.990	-0.100	0.964	-0.262	-0.046	1.103e+001	0.263	0.965	0.007	
4.698e+000	0.042</									

for

for

-3.590 -1.990 -0.100 0.903 -0.426 -0.057 8.599e+000 0.421 0.903 -0.088
5.325e+000 0.089 0.055 0.994 -1.024e-001
-3.190 -1.990 -0.100 0.667 0.707 0.235 8.523e+000 -0.730 0.558 0.394
5.085e+000 0.147 -0.435 0.888 -1.104e+000
-2.790 -1.990 -0.100 0.652 0.744 0.148 7.856e+000 0.758 -0.636 -0.143
4.987e+000 0.012 -0.206 0.979 -2.227e-001
-2.390 -1.990 -0.100 0.456 0.719 0.525 4.351e+001 -0.883 0.294 0.365
1.015e+001 0.108 -0.630 0.769 -2.351e+001
-1.990 -1.990 -0.100 0.891 -0.444 0.093 6.523e+000 -0.110 -0.012 0.994
-1.597e-001 0.440 0.896 0.060 -1.107e+000
-0.100 -1.990 -0.100 0.958 -0.284 0.033 5.859e+000 0.285 0.958 -0.014
1.144e+000 -0.028 0.023 0.999 -2.247e-002
-1.190 -1.990 -0.100 0.975 -0.222 0.019 5.741e+000 0.223 0.975 -0.018
1.823e+000 -0.014 0.022 1.000 -1.154e-002
-0.790 -1.990 -0.100 0.975 -0.222 0.013 5.707e+000 0.222 0.975 -0.021
2.139e+000 -0.008 0.024 1.000 -7.249e-003
-0.390 -1.990 -0.100 0.977 -0.213 0.010 5.825e+000 0.214 0.976 -0.046
2.300e+000 -0.000 0.047 0.999 -9.805e-003
0.010 -1.990 -0.100 0.973 -0.229 0.019 6.083e+000 0.230 0.967 -0.111
2.692e+000 0.007 0.112 0.994 -5.901e-002
0.410 -1.990 -0.100 0.916 -0.398 0.047 7.390e+000 0.399 0.894 -0.203
2.314e+000 0.039 0.205 0.978 -4.115e-002
0.810 -1.990 -0.100 0.800 -0.582 0.143 1.169e+001 -0.423 -0.379 0.823
2.663e+000 0.425 0.719 0.550 -2.929e+000
1.210 -1.990 -0.100 0.754 0.651 -0.084 8.524e+000 -0.341 0.498 0.797
1.059e+000 -0.561 0.573 -0.598 -1.952e+000
2.272e+000 0.310 -0.242 0.919 -4.920e-001
2.010 -1.990 -0.100 0.499 0.866 0.004 3.677e+000 0.852 -0.491 -0.181
1.239e+000 0.155 -0.094 0.984 9.557e-002
2.410 -1.990 -0.100 0.636 0.771 0.019 4.301e+000 0.763 -0.633 0.131
9.131e-001 -0.113 0.069 0.991 -2.362e-002
2.810 -1.990 -0.100 0.685 0.729 0.011 4.344e+000 0.726 -0.683 0.074
1.304e+000 -0.062 0.043 0.997 -1.179e-002
3.210 -1.990 -0.100 0.722 0.692 0.010 4.485e+000 -0.690 0.721 -0.057
1.678e+000 -0.047 0.034 0.998 -6.387e-003
3.610 -1.990 -0.100 0.768 0.640 0.012 4.702e+000 -0.639 0.767 -0.046
2.032e+000 -0.039 0.028 0.999 -5.080e-003
4.010 -1.990 -0.100 0.817 0.577 0.013 4.968e+000 -0.576 0.817 -0.037
2.358e+000 -0.032 0.023 0.999 -4.508e-003
-3.990 -1.990 -0.100 0.971 -0.234 -0.036 1.076e+001 0.234 0.972 -0.010
5.308e+000 0.038 0.001 0.999 -6.474e-002
-3.590 -1.990 -0.100 0.899 -0.427 -0.095 8.487e+000 0.427 0.904 -0.017
5.246e+000 0.093 -0.025 0.995 -1.122e-001
-3.190 -1.990 -0.100 -0.220 0.968 0.119 6.588e+000 0.970 0.230 -0.078
4.609e+000 0.103 -0.098 0.990 -3.075e-002
-2.790 -1.990 -0.100 0.367 0.928 0.057 9.085e+000 0.919 -0.372 0.135
3.720e+000 -0.146 -0.003 0.989 -9.305e-002
-2.390 -1.990 -0.100 0.742 0.670 0.017 1.255e+001 -0.602 0.677 -0.423
2.462e+000 -0.295 0.304 0.906 -5.547e-001
-1.990 -1.990 -0.100 0.980 0.197 -0.005 1.034e+001 -0.147 0.716 -0.683
4.249e-001 -0.131 0.670 0.731 -3.395e-001
-1.590 -1.990 -0.100 1.000 0.021 0.006 7.749e+000 -0.021 0.993 -0.117
9.011e-001 -0.008 0.117 0.993 -1.679e-002
-1.190 -1.990 -0.100 1.000 -0.017 0.009 6.572e+000 0.017 0.998 -0.058
1.656e+000 -0.008 0.058 0.998 -1.280e-002

2.010 -1.190 -0.100 0.374 0.927 0.012 2.807e+000 0.911 -0.365 -0.193
4.982e-001 0.175 -0.083 0.981 8.003e-003
2.410 -1.190 -0.100 0.423 0.906 0.022 2.975e+000 0.894 -0.421 0.155
5.822e-001 0.150 0.046 0.988 -1.310e-002
2.810 -1.190 -0.100 0.522 0.853 0.014 3.414e+000 0.845 -0.519 0.125
9.813e-001 0.114 0.054 0.992 -1.575e-002
3.210 -1.190 -0.100 0.614 0.789 0.014 3.740e+000 0.785 -0.613 0.086
1.449e+000 -0.076 0.042 0.996 -1.103e-002
3.610 -1.190 -0.100 0.699 0.715 0.016 4.048e+000 0.713 -0.698 0.061
1.895e+000 -0.055 0.032 0.998 -8.244e-003
4.010 -1.190 -0.100 0.776 0.631 0.017 4.373e+000 -0.629 0.776 -0.045
2.288e+000 -0.042 0.024 0.999 -6.485e-003
-3.990 -0.790 -0.100 0.996 -0.081 -0.028 1.119e+001 0.081 0.997 -0.008
5.235e+000 0.029 0.005 1.000 -3.538e-002
-3.590 -0.790 -0.100 0.997 0.004 -0.073 5.539e+000 -0.004 1.000 0.002
5.326e+000 0.073 -0.002 0.997 -1.067e-001
-3.190 -0.790 -0.100 0.989 -0.009 -0.146 7.512e+000 0.015 0.999 0.037
5.404e+000 0.146 -0.039 0.989 -8.444e-002
-2.790 -0.790 -0.100 0.762 0.647 -0.011 7.104e+000 -0.647 0.762 0.023
3.795e+000 0.023 -0.010 1.000 4.824e-002
-2.390 -0.790 -0.100 0.856 0.517 0.005 7.696e+000 -0.516 0.855 -0.058
2.442e+000 -0.035 0.047 0.998 9.795e-004
-1.990 -0.790 -0.100 0.937 0.350 0.003 8.156e+000 -0.349 0.934 -0.073
1.604e+000 -0.028 0.068 0.997 -1.017e-002
-1.590 -0.790 -0.100 0.972 0.233 -0.005 8.207e+000 -0.233 0.969 -0.077
1.031e+000 -0.013 0.076 0.997 -1.032e-002
-1.190 -0.790 -0.100 0.982 0.189 -0.017 8.001e+000 -0.190 0.970 -0.152
6.235e-001 -0.012 0.153 0.988 -2.153e-002
-0.790 -0.790 -0.100 0.974 0.221 -0.049 7.640e+000 -0.206 0.775 -0.598
2.759e-001 -0.094 0.593 0.800 -1.947e-001
-0.390 -0.790 -0.100 0.919 0.356 -0.171 7.184e+000 0.336 -0.477 0.812
5.269e-001 -0.207 0.804 0.558 -1.429e+000
0.010 -0.790 -0.100 -0.296 0.922 0.250 7.905e+000 0.762 0.070 0.644
-1.035e+000 -0.576 -0.381 0.723 -2.428e+001
0.410 -0.790 -0.100 0.978 -0.188 -0.089 4.445e+000 0.196 0.976 0.093
1.240e+000 0.069 -0.109 0.992 -7.670e-003
0.810 -0.790 -0.100 0.858 -0.509 -0.068 3.586e+000 0.511 0.860 0.002
1.722e+000 0.058 -0.037 0.998 -1.582e-002
1.210 -0.790 -0.100 -0.278 0.960 0.041 3.616e+000 0.950 0.281 -0.135
2.007e+000 0.141 -0.001 0.990 -5.304e-002
1.610 -0.790 -0.100 -0.153 0.988 0.007 5.074e+000 0.820 0.131 -0.557
8.716e-001 0.552 0.080 0.830 -4.279e-001
2.010 -0.790 -0.100 0.226 0.974 0.010 2.226e+000 0.955 -0.220 -0.197
2.307e-001 0.189 -0.054 0.980 3.913e-002
2.410 -0.790 -0.100 0.362 0.932 0.017 2.689e+000 0.908 -0.357 0.217
4.646e-001 -0.208 0.063 0.976 -1.663e-002
2.810 -0.790 -0.100 0.472 0.882 0.015 3.060e+000 0.872 -0.469 0.139
9.082e-001 -0.139 0.052 0.990 -1.619e-002
3.210 -0.790 -0.100 0.572 0.820 0.016 3.415e+000 0.816 -0.570 0.095
1.376e+000 -0.087 0.041 0.995 -1.260e-002
3.610 -0.790 -0.100 0.666 0.746 0.018 3.755e+000 0.743 -0.665 0.067
1.840e+000 -0.062 0.031 0.998 -9.602e-003
4.010 -0.790 -0.100 0.755 0.655 0.019 4.104e+000 -0.654 0.755 -0.048
2.258e+000 -0.046 0.024 0.999 -7.412e-003
-3.990 -0.390 -0.100 0.996 -0.088 -0.026 1.152e+001 0.088 0.996 -0.002
4.978e+000 0.026 -0.001 1.000 -2.992e-002

-0.790 -1.590 -0.100 0.996 -0.093 0.015 5.899e+000 0.094 0.994 -0.048
2.124e+000 -0.010 0.050 0.999 -1.832e-002
-0.390 -1.590 -0.100 0.977 -0.213 0.007 5.904e+000 0.213 0.975 -0.060
1.831e+000 0.005 0.060 0.998 -3.054e-002
0.010 -1.590 -0.100 0.993 -0.184 -0.006 6.339e+000 0.172 0.929 -0.329
1.379e+000 0.066 0.322 0.944 -1.321e-001
0.410 -1.590 -0.100 0.950 -0.235 0.207 1.002e+001 0.263 0.958 -0.118
3.335e+000 -0.171 0.166 0.971 -3.687e-001
0.810 -1.590 -0.100 0.980 0.119 -0.157 6.496e+000 0.006 0.779 0.627
5.792e-001 0.197 -0.615 0.763 -7.684e-001
1.210 -1.590 -0.100 -0.419 0.901 0.110 3.105e+000 0.876 0.433 -0.221
2.326e+000 0.238 -0.008 0.971 -1.716e-001
1.610 -1.590 -0.100 0.134 0.991 0.011 5.090e+000 0.959 -0.127 -0.254
1.593e+000 0.250 -0.044 0.967 -8.419e-003
2.010 -1.590 -0.100 0.412 0.904 0.115 2.079e+000 0.627 -0.373 0.684
3.448e-001 -0.661 0.209 0.721 -3.792e-001
2.410 -1.590 -0.100 0.479 0.877 0.031 3.473e+000 0.850 -0.472 0.234
5.751e-001 -0.220 0.086 0.972 -4.778e-002
2.810 -1.590 -0.100 0.592 0.806 0.013 3.876e+000 0.801 -0.589 0.108
1.079e+000 -0.095 0.054 0.994 -1.573e-002
3.210 -1.590 -0.100 0.667 0.745 0.012 4.118e+000 0.743 -0.665 0.073
1.540e+000 -0.062 0.040 0.997 -8.879e-003
3.610 -1.590 -0.100 0.734 0.679 0.014 4.374e+000 -0.678 0.733 -0.054
1.956e+000 -0.047 0.031 0.998 -6.651e-003
4.010 -1.590 -0.100 0.797 0.604 0.015 4.666e+000 -0.603 0.797 -0.041
2.321e+000 -0.037 0.024 0.999 -5.474e-003
-3.990 -1.190 -0.100 0.990 -0.140 -0.031 1.074e+001 0.139 0.990 -0.010
5.543e+000 0.032 0.005 0.999 -4.626e-002
-3.590 -1.190 -0.100 0.990 -0.117 -0.072 8.161e+000 0.117 0.993 -0.004
6.166e+000 0.072 -0.005 0.997 -8.454e-002
-3.190 -1.190 -0.100 0.171 0.985 0.036 6.057e+000 0.985 -0.172 0.026
3.513e+000 -0.032 -0.031 0.999 -4.792e-001
-2.790 -1.190 -0.100 0.526 0.850 0.027 7.684e+000 0.847 -0.527 0.076
3.634e+000 -0.079 0.017 0.997 -3.985e-002
-2.390 -1.190 -0.100 0.801 0.599 0.007 9.165e+000 -0.592 0.793 -0.143
2.243e+000 -0.091 0.111 0.990 -3.893e-002
-1.990 -1.190 -0.100 0.937 0.349 -0.001 9.202e+000 -0.343 0.921 -0.185
1.125e+000 -0.064 0.174 0.983 -3.644e-002
-1.590 -1.190 -0.100 0.980 0.200 -0.003 8.298e+000 -0.198 0.971 -0.130
9.355e-001 -0.024 0.128 0.992 -1.867e-002
-1.190 -1.190 -0.100 0.986 0.164 -0.006 7.322e+000 -0.164 0.979 -0.121
1.220e+000 -0.014 0.121 0.993 -2.264e-002
-0.790 -1.190 -0.100 0.982 0.187 -0.006 6.132e+000 -0.186 0.969 -0.161
1.807e+000 -0.024 0.159 0.987 -6.376e-002
-0.390 -1.190 -0.100 0.984 -0.162 0.072 4.585e+000 0.171 0.976 -0.136
2.345e+000 -0.048 0.146 0.988 -1.393e-001
0.010 -1.190 -0.100 0.976 -0.218 0.026 5.257e+000 0.118 0.621 0.775
2.833e-001 0.185 0.753 -0.632 -1.820e-001
0.410 -1.190 -0.100 0.945 -0.171 -0.278 3.183e+000 0.315 0.249 0.916
-2.086e-001 0.087 0.953 -0.289 -7.843e-001
0.810 -1.190 -0.100 -0.497 0.864 0.081 2.470e+000 0.846 0.503 -0.176
2.052e+000 0.193 0.019 0.981 -3.062e-002
1.210 -1.190 -0.100 -0.213 0.977 0.030 3.552e+000 0.950 0.214 -0.226
1.777e+000 0.227 0.020 0.974 -9.531e-002
1.610 -1.190 -0.100 -0.042 0.999 0.004 4.493e+000 0.884 0.039 -0.466
5.124e-001 0.466 0.016 0.885 -8.399e-002

-3.590 -0.390 -0.100 0.996 -0.067 -0.065 9.919e+000 0.067 0.998 0.001
5.020e+000 0.065 -0.005 0.998 -9.799e-002
-3.190 -0.390 -0.100 0.986 0.089 -0.140 7.058e+000 -0.094 0.995 -0.030
4.954e+000 0.136 0.043 0.990 -3.084e-002
-2.790 -0.390 -0.100 0.826 0.564 -0.014 5.991e+000 -0.563 0.826 0.029
3.437e+000 0.028 -0.016 0.999 4.182e-002
-2.390 -0.390 -0.100 0.900 0.436 0.009 6.618e+000 -0.435 0.900 -0.035
2.685e+000 -0.024 0.028 0.999 4.269e-003
-1.990 -0.390 -0.100 0.957 0.289 0.007 7.320e+000 -0.289 0.957 -0.033
2.023e+000 -0.016 0.030 0.999 -6.240e-003
-1.590 -0.390 -0.100 0.984 0.180 -0.003 7.799e+000 -0.180 0.983 -0.020
1.364e+000 -0.001 0.020 1.000 -6.456e-003
-1.190 -0.390 -0.100 0.994 0.105 -0.017 8.060e+000 -0.105 0.994 -0.006
6.640e-001 0.016 0.008 1.000 -1.028e-002
-0.790 -0.390 -0.100 0.998 0.045 -0.046 8.219e+000 0.045 0.026 0.999
-4.011e-002 -0.046 0.999 -0.024 -2.190e-001
-0.390 -0.390 -0.100 0.995 -0.048 -0.092 8.099e+000 0.094 0.048 0.994
-8.318e-002 0.044 0.998 -0.052 -8.609e-001
0.010 -0.390 -0.100 0.942 -0.329 -0.074 6.083e+000 0.335 0.937 0.096
1.960e+000 0.038 -0.115 0.993 -4.533e-002
0.410 -0.390 -0.100 0.977 -0.211 -0.038 4.624e+000 0.213 0.975 0.059
2.108e+000 0.025 -0.066 0.997 -7.384e-004
0.810 -0.390 -0.100 0.912 -0.407 -0.043 3.583e+000 0.409 0.912 0.029
2.454e+000 0.028 -0.044 0.999 -2.166e-002
1.210 -0.390 -0.100 -0.268 0.962 0.052 3.700e+000 0.958 0.272 -0.088
2.190e+000 0.099 -0.026 0.995 -3.933e-002
1.610 -0.390 -0.100 0.086 0.996 -0.035 5.146e+000 0.853 -0.055 0.519
3.568e-001 -0.515 0.075 0.854 -1.309e-002
2.010 -0.390 -0.100 0.074 0.995 0.067 1.971e+000 0.940 -0.092 0.328
2.412e-001 -0.333 -0.038 0.942 -4.606e-002
2.410 -0.390 -0.100 0.301 0.953 0.027 2.378e+000 0.940 -0.301 0.157
5.444e-001 -0.158 0.022 0.987 -8.374e-003
2.810 -0.390 -0.100 0.441 0.897 0.018 2.785e+000 0.887 -0.439 0.140
8.599e-001 -0.133 0.046 0.990 -1.423e-002
3.210 -0.390 -0.100 0.537 0.843 0.018 3.158e+000 0.838 -0.536 0.102
1.302e+000 -0.096 0.040 0.995 -1.351e-002
3.610 -0.390 -0.100 0.634 0.773 0.020 3.507e+000 0.770 -0.633 0.072
1.784e+000 -0.068 0.030 0.997 -1.067e-002
4.010 -0.390 -0.100 0.733 0.680 0.021 3.865e+000 -0.678 0.733 -0.051
2.230e+000 -0.050 0.023 0.998 -8.197e-003
-3.990 0.010 -0.100 0.996 -0.092 -0.023 1.166e+001 0.092 0.996 0.002
4.883e+000 0.023 -0.004 1.000 -2.924e-002
-3.590 0.010 -0.100 0.996 -0.073 -0.057 1.004e+001 0.073 0.997 0.006
4.923e+000 0.056 -0.011 0.998 -9.317e-002
-3.190 0.010 -0.100 0.987 -0.005 -0.159 7.258e+000 0.014 0.998 0.055
4.394e+000 0.158 -0.056 0.986 -2.208e-001
-2.790 0.010 -0.100 0.951 0.308 -0.028 5.243e+000 -0.309 0.951 -0.021
3.436e+000 0.020 0.029 0.999 7.272e-002
-2.390 0.010 -0.100 0.958 0.287 0.018 5.896e+000 -0.286 0.958 -0.025
2.889e+000 -0.024 0.018 1.000 1.178e-003
-1.990 0.010 -0.100 0.981 0.192 0.013 6.716e+000 -0.191 0.981 -0.014
2.379e+000 -0.016 0.012 1.000 -6.959e-003
0.010 0.010 -0.100 0.995 0.101 0.003 7.296e+000 -0.101 0.995 0.004
1.850e+000 -0.002 -0.005 1.000 -7.638e-003
-1.190 0.010 -0.100 1.000 0.012 -0.010 7.571e+000 -0.011 0.999 0.037
1.296e+000 0.010 -0.037 0.999 -1.263e-002

-0.790 0.010 -0.100 0.995 -0.099 -0.033 7.489e+000 0.102 0.987 0.121
 6.680e-001 0.021 -0.124 0.992 -4.385e-002
 -0.390 0.010 -0.100 0.957 -0.278 -0.085 6.843e+000 0.099 0.036 0.994
 -5.226e-002 0.273 0.960 -0.062 -3.201e-001
 0.010 0.010 -0.100 -999.000 -999.000 -999.000 -9.990e+002 -999.000 -
 999.000 -999.000 -9.990e+002 -999.000 -999.000 -999.000 -9.990e+002 -999.000 -
 0.410 0.010 -0.100 0.903 0.430 -0.001 4.009e+000 -0.429 0.902 0.054
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 7.575e-001 -0.139 0.047 0.989 -1.154e-002
 3.210 0.010 -0.100 0.502 0.865 0.019 2.964e+000 0.859 -0.501 0.111
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 1.937e+000 0.030 -0.027 0.999 -3.602e-002
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 1.994e+000 0.029 -0.089 0.996 -6.176e-002
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 1.079e+000 -0.121 0.034 0.992 -1.513e-002
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 1.619e+000 -0.087 0.016 0.996 -1.193e-002
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 1.698e+000 -0.076 -0.453 0.888 -8.040e-001
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 2.443e+000 0.016 0.010 1.000 4.623e-002
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 2.397e+000 -0.023 0.023 0.999 5.720e-003
 -1.990 2.010 -0.100 1.000 -0.008 0.025 6.208e+000 0.009 1.000 -0.011
 2.624e+000 -0.025 0.011 1.000 -9.924e-003
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 2.714e+000 -0.014 0.002 1.000 -1.032e-002
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 2.666e+000 -0.003 -0.005 1.000 -9.592e-003
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 2.546e+000 0.008 -0.013 1.000 -1.018e-002
 -0.390 2.010 -0.100 0.990 -0.138 -0.025 7.335e+000 0.139 0.990 0.024
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 0.010 2.010 -0.100 0.986 -0.156 -0.054 6.588e+000 0.159 0.986 0.047
 2.528e+000 0.046 -0.0

for

for

2.010 2.010 -0.100 0.124 0.992 0.002 4.510e+000 0.950 -0.118 -0.289
6.997e+001 0.287 -0.038 0.957 -5.101e-002
2.410 2.010 -0.100 -0.073 0.995 0.067 3.044e+000 0.989 0.081 -0.121
5.711e+001 0.126 -0.057 0.990 -8.010e-003
2.810 2.010 -0.100 0.109 0.994 0.028 2.142e+000 0.994 -0.110 0.027
8.029e+001 -0.030 -0.025 0.999 2.033e-002
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4.428e+000 0.035 -0.007 0.999 -6.722e-002
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-1.990 2.410 -0.100 0.995 -5.054e-004
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2.864e+000 0.035 -0.050 0.998 -3.728e-002
0.410 2.410 -0.100 0.996 -0.017 -0.090 5.057e+000 0.027 0.994 0.110
3.046e+000 0.088 -0.112 0.990 -8.407e-002
0.810 2.410 -0.100 -0.228 0.971 -0.072 3.783e+000 0.973 0.226 -0.036
3.371e+000 0.019 0.079 0.997 -6.633e-002
1.210 2.410 -0.100 0.193 0.981 -0.007 4.015e+000 0.981 -0.194 -0.032
2.583e+000 0.032 0.000 0.999 -1.554e-002
1.610 2.410 -0.100 0.200 0.980 -0.006 4.389e+000 0.976 -0.200 -0.082
2.105e+000 0.082 -0.011 0.997 -3.749e-002
2.010 2.410 -0.100 0.210 0.977 -0.031 4.620e+000 0.958 -0.212 -0.192
1.503e+000 0.194 -0.010 0.981 -7.640e-002
2.410 2.410 -0.100 -0.150 0.987 -0.057 6.676e+000 0.968 0.159 0.194
2.012e+000 -0.200 0.026 0.979 6.049e-001
2.810 2.410 -0.100 0.186 0.982 0.038 2.194e+000 0.982 -0.187 0.038
4.393e+001 -0.044 -0.030 0.999 1.806e-002
3.210 2.410 -0.100 0.144 0.989 0.011 2.452e+000 0.984 -0.145 0.104
1.021e+000 -0.104 0.005 0.995 -3.579e-003
3.610 2.410 -0.100 0.170 0.985 0.008 2.680e+000 0.982 -0.170 0.083
1.642e+000 -0.083 0.007 0.996 -9.605e-003
4.010 2.410 -0.100 0.227 0.974 0.009 2.906e+000 0.972 -0.227 0.062
2.300e+000 -0.062 0.005 0.998 -8.957e-003
-3.990 2.810 -0.100 0.997 -0.071 -0.014 1.181e+001 0.071 0.997 -0.008
4.381e+000 0.014 0.007 1.000 -1.877e-002

-0.790 3.210 -0.100 0.947 -0.321 -0.004 8.156e+000 0.321 0.947 0.024
2.955e+000 -0.004 -0.024 1.000 -1.014e-002
-0.390 3.210 -0.100 0.957 -0.290 -0.015 8.162e+000 0.290 0.956 0.029
3.007e+000 0.006 -0.032 0.999 -1.373e-002
0.010 3.210 -0.100 0.971 -0.235 -0.032 7.669e+000 0.236 0.971 0.038
3.086e+000 0.022 -0.045 0.999 -2.788e-002
0.410 3.210 -0.100 0.992 -0.100 -0.080 6.396e+000 0.106 0.991 0.080
3.109e+000 0.071 -0.088 0.994 -1.273e-001
0.810 3.210 -0.100 0.725 0.568 -0.388 4.024e+000 0.479 -0.822 -0.308
2.211e+000 0.494 -0.037 0.869 -2.208e-002
1.210 3.210 -0.100 0.001 0.999 -0.034 4.002e+000 1.000 -0.001 0.004
2.526e+000 -0.004 0.034 0.999 -3.434e-002
1.610 3.210 -0.100 -0.058 0.998 -0.002 4.380e+000 0.997 0.058 -0.043
2.646e+000 0.043 0.004 0.999 -2.535e-002
2.010 3.210 -0.100 0.003 1.000 0.002 4.682e+000 0.994 -0.003 -0.111
2.177e+000 0.111 -0.003 0.994 -5.816e-002
2.410 3.210 -0.100 -0.080 0.997 -0.000 4.938e+000 0.992 0.079 -0.093
1.148e+000 0.093 0.008 0.996 2.250e-002
2.810 3.210 -0.100 -0.503 0.859 0.095 2.405e+000 0.862 0.506 -0.009
1.329e+000 0.056 -0.078 0.995 2.984e-002
3.210 3.210 -0.100 0.003 1.000 0.005 2.395e+000 0.999 -0.003 0.053
1.278e+000 -0.053 -0.005 0.999 1.022e-002
3.610 3.210 -0.100 -0.072 0.997 -0.004 2.713e+000 0.995 0.072 0.073
1.728e+000 -0.073 -0.001 0.997 -5.946e-003
4.010 3.210 -0.100 -0.207 0.978 -0.010 2.966e+000 0.977 0.207 0.058
2.342e+000 -0.059 -0.002 0.998 -7.711e-003
-3.990 3.610 -0.100 0.994 -0.113 -0.014 1.247e+001 0.113 0.994 -0.002
3.844e+000 0.014 0.001 1.000 -1.123e-002
-3.590 3.610 -0.100 0.994 -0.101 -0.028 1.176e+001 0.102 0.995 0.008
3.725e+000 0.027 -0.010 1.000 -3.607e-002
-3.190 3.610 -0.100 0.995 -0.078 -0.067 9.989e+000 0.081 0.996 0.032
3.782e+000 0.064 -0.037 0.997 -1.188e-001
-2.790 3.610 -0.100 0.950 0.051 -0.309 6.527e+000 -0.030 0.997 0.072
3.044e+000 0.312 -0.059 0.948 -4.425e-001
-2.390 3.610 -0.100 0.954 -0.296 0.052 4.822e+000 0.299 0.951 -0.079
2.829e+000 -0.026 0.091 0.996 -1.536e-002
-1.990 3.610 -0.100 0.903 -0.429 0.032 6.291e+000 0.429 0.903 0.009
2.666e+000 -0.033 0.005 0.999 -1.276e-002
-1.590 3.610 -0.100 0.903 -0.429 0.017 7.372e+000 0.428 0.903 0.023
2.784e+000 -0.025 -0.013 1.000 -1.136e-002
-1.190 3.610 -0.100 0.914 -0.406 0.006 8.156e+000 0.406 0.914 0.026
2.891e+000 -0.016 -0.021 1.000 -1.009e-002
-0.790 3.610 -0.100 0.927 -0.375 -0.003 8.609e+000 0.375 0.926 0.029
2.966e+000 -0.008 -0.028 1.000 -1.034e-002
-0.390 3.610 -0.100 0.942 -0.336 -0.013 8.666e+000 0.336 0.941 0.035
3.048e+000 0.001 -0.037 0.999 -1.367e-002
0.010 3.610 -0.100 0.961 -0.275 -0.028 8.214e+000 0.276 0.960 0.049
3.188e+000 0.013 -0.055 0.998 -2.791e-002
0.410 3.610 -0.100 0.991 -0.128 -0.049 7.012e+000 0.132 0.985 0.108
3.477e+000 0.034 -0.113 0.993 -7.449e-002
0.810 3.610 -0.100 0.975 0.164 0.147 7.487e+000 -0.148 0.982 -0.113
3.284e+000 -0.163 0.089 0.983 -7.581e-001
1.210 3.610 -0.100 0.959 -0.282 -0.020 3.976e+000 0.280 0.958 -0.066
3.256e+000 0.038 0.058 0.998 -2.266e-002
1.610 3.610 -0.100 -0.297 0.955 -0.005 4.344e+000 0.954 0.296 -0.040
2.976e+000 0.037 0.017 0.999 -2.409e-002

-3.590 2.810 -0.100 0.999 -0.018 -0.036 1.068e+001 0.018 1.000 -0.002
4.160e+000 0.036 0.001 0.999 -5.592e-002
-3.190 2.810 -0.100 0.990 0.110 -0.083 8.297e+000 -0.108 0.994 0.027
3.948e+000 0.085 -0.018 0.996 -9.058e-002
-2.790 2.810 -0.100 -0.563 0.417 0.714 4.166e+000 0.426 0.886 -0.182
1.067e+000 0.708 -0.202 0.676 -1.822e+000
-2.390 2.810 -0.100 0.941 -0.332 0.060 4.419e+000 0.332 0.943 0.008
2.364e+000 -0.059 0.012 0.998 -4.174e-002
-1.990 2.810 -0.100 0.960 -0.278 0.031 5.727e+000 0.278 0.960 0.008
2.770e+000 -0.032 0.001 0.999 -1.144e-002
-1.590 2.810 -0.100 0.963 -0.268 0.017 6.728e+000 0.268 0.963 0.011
2.897e+000 -0.020 -0.006 1.000 -1.055e-002
-1.190 2.810 -0.100 0.965 -0.264 0.005 7.454e+000 0.264 0.964 0.015
2.910e+000 -0.009 -0.013 1.000 -9.600e-003
-0.790 2.810 -0.100 0.966 -0.258 -0.006 7.826e+000 0.258 0.966 0.020
2.894e+000 0.000 -0.021 1.000 -1.020e-002
-0.390 2.810 -0.100 0.970 -0.243 -0.017 7.769e+000 0.243 0.970 0.027
2.927e+000 0.010 -0.031 0.999 -1.497e-002
2.810 2.810 -0.100 0.980 -0.198 -0.036 7.169e+000 0.199 0.979 0.039
3.053e+000 0.027 -0.046 0.999 -3.862e-002
0.410 2.810 -0.100 0.996 -0.014 -0.083 5.892e+000 0.019 0.997 0.071
3.119e+000 0.082 -0.072 0.994 -9.154e-002
0.810 2.810 -0.100 0.840 0.534 -0.100 4.470e+000 -0.533 0.845 0.035
2.738e+000 0.103 0.024 0.994 2.783e-002
1.210 2.810 -0.100 0.323 0.946 -0.027 3.989e+000 0.946 -0.324 -0.024
2.679e+000 0.031 0.018 0.999 -1.085e-002
1.610 2.810 -0.100 0.099 0.995 -0.002 4.326e+000 0.993 -0.099 -0.064
2.433e+000 0.064 -0.005 0.998 -2.924e-002
2.010 2.810 -0.100 0.011 1.000 0.012 4.528e+000 0.984 -0.009 -0.175
1.867e+000 0.175 -0.014 0.984 -7.322e-002
2.410 2.810 -0.100 0.045 0.999 0.012 4.083e+000 0.951 -0.039 -0.308
8.596e+001 0.307 -0.025 0.951 -5.672e-002
2.810 2.810 -0.100 -0.159 0.986 0.043 2.473e+000 0.986 0.161 -0.050
8.277e+001 0.056 -0.034 0.998 2.204e-002
3.210 2.810 -0.100 -0.001 1.000 0.007 2.425e+000 0.997 0.001 0.073
1.166e+000 -0.073 -0.007 0.997 4.232e-003
3.610 2.810 -0.100 0.044 0.999 0.002 2.670e+000 0.996 -0.044 0.078
1.692e+000 -0.078 0.002 0.997 -7.594e-003
4.010 2.810 -0.100 0.014 1.000 -0.001 2.902e+000 0.998 -0.014 0.061
2.332e+000 -0.061 0.002 0.998 -8.359e-003
-3.990 3.210 -0.100 0.997 -0.081 -0.014 1.226e+001 0.081 0.997 -0.007
4.036e+000 0.015 0.006 1.000 -1.415e-002
-3.590 3.210 -0.100 0.998 -0.053 -0.032 1.154e+001 0.054 0.999 0.004
3.794e+000 0.032 -0.005 0.999 -4.769e-002
-3.190 3.210 -0.100 0.996 -0.016 -0.083 1.014e+001 0.019 0.999 0.046
3.537e+000 0.082 -0.047 0.996 -1.321e-001
-2.790 3.210 -0.100 0.974 0.205 -0.092 7.683e+000 -0.206 0.979 0.000
4.366e+000 0.090 0.019 0.996 6.605e-002
-2.390 3.210 -0.100 0.985 -0.173 -0.002 5.810e+000 0.173 0.983 -0.067
2.238e+000 0.013 0.065 0.998 2.448e-002
-1.990 3.210 -0.100 0.935 -0.354 0.027 6.104e+000 0.354 0.935 0.006
2.633e+000 -0.028 0.004 1.000 -7.880e-003
-1.590 3.210 -0.100 0.933 -0.360 0.017 7.008e+000 0.360 0.933 0.017
2.838e+000 -0.022 -0.010 1.000 -1.063e-002
-1.190 3.210 -0.100 0.939 -0.343 0.006 7.744e+000 0.342 0.939 0.020
2.919e+000 -0.013 -0.017 1.000 -9.747e-003

2.010 3.610 -0.100 -0.251 0.968 0.012 4.542e+000 0.963 0.250 -0.102
2.752e+000 0.102 0.014 0.995 -5.551e-002
2.410 3.610 -0.100 -0.225 0.974 -0.015 4.879e+000 0.935 0.212 -0.284
2.271e+000 0.273 0.078 0.959 -8.279e-002
2.810 3.610 -0.100 -0.222 0.965 0.141 2.171e+000 0.944 0.249 -0.215
4.139e+001 0.242 -0.086 0.966 -4.605e-002
3.210 3.610 -0.100 -0.157 0.988 0.004 2.629e+000 0.986 0.156 0.057
1.149e+000 -0.055 -0.013 0.998 1.104e-002
3.610 3.610 -0.100 -0.234 0.972 -0.010 2.831e+000 0.970 0.235 0.067
1.757e+000 -0.067 -0.006 0.998 -4.341e-003
4.010 3.610 -0.100 -0.395 0.919 -0.017 3.098e+000 0.917 0.395 0.053
2.338e+000 -0.055 -0.005 0.998 -6.954e-003
-3.990 4.010 -0.100 0.990 -0.143 -0.013 1.249e+001 0.143 0.990 0.003
3.770e+000 0.012 -0.005 1.000 -9.655e-003
-3.590 4.010 -0.100 0.992 -0.127 -0.025 1.175e+001 0.127 0.992 0.014
3.718e+000 0.023 -0.017 1.000 -3.225e-002
-3.190 4.010 -0.100 0.996 -0.072 -0.059 1.003e+001 0.075 0.996 0.052
3.871e+000 0.055 -0.057 0.997 -6.863e-002
-2.790 4.010 -0.100 0.782 0.556 0.281 1.074e+001 -0.615 0.617 0.492
4.739e+000 0.101 -0.557 0.824 -3.939e+000
-2.390 4.010 -0.100 0.918 -0.396 0.040 5.956e+000 0.397 0.917 -0.033
2.122e+000 -0.024 0.047 0.999 -4.370e-002
-1.990 4.010 -0.100 0.874 -0.485 0.031 6.718e+000 0.485 0.874 0.014
2.567e+000 -0.034 0.002 0.999 -1.403e-002
-1.590 4.010 -0.100 0.875 -0.483 0.017 7.829e+000 0.482 0.875 0.028
2.726e+000 -0.029 -0.016 0.999 -1.220e-002
-1.190 4.010 -0.100 0.890 -0.456 0.007 8.688e+000 0.456 0.890 0.032
2.854e+000 -0.021 -0.025 0.999 -1.070e-002
-0.790 4.010 -0.100 0.907 -0.422 -0.002 9.168e+000 0.421 0.906 0.036
2.965e+000 -0.013 -0.034 0.999 -1.101e-002
-0.390 4.010 -0.100 0.926 -0.377 -0.012 9.291e+000 0.377 0.925 0.043
3.072e+000 -0.005 -0.044 0.999 -1.426e-002
0.010 4.010 -0.100 0.952 -0.304 -0.025 8.929e+000 0.305 0.951 0.052
3.213e+000 0.008 -0.057 0.998 -2.424e-002
0.410 4.010 -0.100 0.989 -0.136 -0.052 7.844e+000 0.140 0.987 0.073
3.387e+000 0.042 -0.080 0.996 -9.291e-002
0.810 4.010 -0.100 0.933 0.286 -0.218 5.854e+000 -0.240 0.947 0.212
2.396e+000 0.267 -0.145 0.953 -3.106e-001
1.210 4.010 -0.100 0.451 0.885 -0.116 3.774e+000 0.892 -0.446 0.069
2.616e+000 -0.009 0.134 0.991 -6.333e-002
1.610 4.010 -0.100 -0.448 0.894 -0.015 4.780e+000 0.894 0.448 -0.031
2.736e+000 0.021 0.027 0.999 -2.930e-002
2.010 4.010 -0.100 -0.489 0.872 0.026 4.978e+000 0.869 0.489 -0.068
2.683e+000 0.072 0.010 0.997 -4.706e-002
2.410 4.010 -0.100 -0.325 0.945 0.043 4.380e+000 0.934 0.328 -0.140
2.178e+000 0.147 0.005 0.989 -5.668e-002
2.810 4.010 -0.100 -0.446 0.894 0.052 3.275e+000 0.889 0.449 -0.091
1.512e+000 0.104 -0.005 0.995 2.630e-002
3.210 4.010 -0.100 -0.434 0.901 0.004 2.758e+000 0.901 0.434 0.019
1.529e+000 -0.015 -0.012 1.000 1.855e-002
3.610 4.010 -0.100 -0.400 0.916 -0.015 2.952e+000 0.915 0.400 0.054
1.877e+000 -0.055 -0.008 0.998 -1.647e-003
4.010 4.010 -0.100 -0.531 0.847 -0.021 3.272e+000 0.846 0.531 0.047
2.345e+000 -0.051 -0.007 0.999 -6.101e-003
-3.990 4.410 -0.100 0.985 -0.170 -0.013 1.246e+001 0.171 0.985 0.008
3.747e+000 0.011 -0.010 1.000 -8.318e-003

Joe

Joe

-3.590	4.410	-0.100	0.989	-0.144	-0.024	1.173e+001	0.144	0.989	0.018
3.658e+000	0.021	-0.021	1.000	-2.664e-002					
-3.190	4.410	-0.100	0.997	-0.055	-0.061	1.003e+001	0.057	0.997	0.047
3.659e+000	0.058	-0.050	0.997	-1.303e-001					
-2.790	4.410	-0.100	0.934	0.305	-0.184	7.092e+000	-0.304	0.952	0.036
2.731e+000	0.186	0.023	0.982	-6.792e-002					
-2.390	4.410	-0.100	0.970	-0.239	0.040	5.050e+000	0.242	0.963	-0.117
3.198e+000	-0.011	0.123	0.992	-2.207e-002					
-1.990	4.410	-0.100	0.840	-0.541	0.034	7.011e+000	0.541	0.841	0.012
2.643e+000	-0.035	0.008	0.999	-1.731e-002					
-1.590	4.410	-0.100	0.850	-0.526	0.017	8.387e+000	0.525	0.850	0.033
2.669e+000	-0.032	-0.019	0.999	-1.335e-002					
-1.190	4.410	-0.100	0.870	-0.493	0.007	9.270e+000	0.492	0.870	0.038
2.830e+000	-0.025	-0.029	0.999	-1.152e-002					
-0.790	4.410	-0.100	0.888	-0.459	-0.001	9.793e+000	0.459	0.888	0.043
3.006e+000	-0.019	-0.039	0.999	-1.226e-002					
-0.390	4.410	-0.100	0.907	-0.421	-0.010	9.992e+000	0.421	0.906	0.054
3.165e+000	-0.014	-0.053	0.998	-1.693e-002					
0.010	4.410	-0.100	0.932	-0.362	-0.025	9.814e+000	0.362	0.929	0.077
3.272e+000	-0.005	-0.081	0.997	-2.911e-002					
0.410	4.410	-0.100	0.974	-0.220	-0.056	9.007e+000	0.226	0.964	0.139
3.317e+000	0.023	-0.148	0.989	-8.256e-002					
0.810	4.410	-0.100	0.834	-0.543	-0.093	6.878e+000	-0.420	0.736	0.530
3.729e+000	0.357	-0.403	0.843	-0.834	-0.162	4.961e+000	0.846	0.534	-0.002
1.167e+000	-0.085	0.138	0.987	-3.534e-001					
1.610	4.410	-0.100	0.690	0.724	-0.012	6.149e+000	0.723	0.689	-0.039
2.139e+000	0.020	0.036	0.999	-3.661e-002					
2.010	4.410	-0.100	0.754	-0.656	-0.027	5.737e+000	0.654	0.754	-0.056
2.679e+000	0.057	0.025	0.998	-4.453e-002					
2.410	4.410	-0.100	0.689	0.724	0.037	4.544e+000	0.716	0.688	-0.117
2.948e+000	0.110	0.054	0.992	-6.590e-002					
2.810	4.410	-0.100	0.815	-0.577	0.045	4.896e+000	0.529	0.774	0.348
1.883e+000	-0.236	-0.260	0.936	-4.882e-001					
3.210	4.410	-0.100	0.360	0.933	0.003	2.643e+000	0.933	0.360	0.002
1.872e+000	-0.001	-0.003	1.000	2.339e-002					
3.610	4.410	-0.100	0.483	0.875	-0.019	3.098e+000	0.874	0.483	0.045
1.983e+000	-0.049	-0.006	0.999	-6.750e-004					
4.010	4.410	-0.100	0.617	0.787	-0.022	3.475e+000	0.786	0.617	0.042
2.361e+000	-0.047	-0.008	0.999	-5.550e-003					
-3.990	4.810	-0.100	0.979	-0.202	-0.012	1.242e+001	0.203	0.979	0.018
3.812e+000	0.008	-0.020	1.000	-7.580e-003					
-3.590	4.810	-0.100	0.985	-0.172	-0.025	1.177e+001	0.173	0.984	0.038
3.637e+000	0.018	-0.042	0.999	-2.277e-002					
-3.190	4.810	-0.100	0.995	-0.076	-0.063	1.013e+001	0.082	0.991	0.106
3.483e+000	0.054	-0.110	0.992	-7.365e-002					
-2.790	4.810	-0.100	0.765	0.348	0.541	7.658e+000	0.391	0.920	-0.038
2.788e+000	0.511	-0.183	0.840	-7.586e+000					
-2.390	4.810	-0.100	0.687	0.717	-0.114	5.826e+000	0.720	0.694	0.023
2.031e+000	-0.096	0.066	0.993	-1.582e-001					
-1.990	4.810	-0.100	0.804	-0.594	0.034	7.855e+000	0.593	0.804	0.028
2.334e+000	-0.044	-0.002	0.999	-2.530e-002					
-1.590	4.810	-0.100	0.835	-0.548	0.017	9.144e+000	0.547	0.836	0.038
2.557e+000	-0.035	-0.023	0.999	-1.445e-002					
-1.190	4.810	-0.100	0.860	-0.511	0.008	9.949e+000	0.510	0.859	0.041
2.830e+000	-0.028	-0.031	0.999	-1.201e-002					

2.010	5.210	-0.100	0.967	-0.252	-0.041	8.622e+000	0.251	0.968	-0.032
1.765e+000	0.047	0.020	0.999	-3.321e-002					
2.410	5.210	-0.100	0.971	-0.219	-0.091	6.478e+000	0.216	0.975	-0.046
2.018e+000	0.099	0.025	0.995	-6.038e-002					
2.810	5.210	-0.100	0.946	-0.305	-0.105	3.773e+000	0.305	0.952	-0.020
2.470e+000	0.107	-0.013	0.994	-2.898e-001					
3.210	5.210	-0.100	0.781	-0.624	0.028	3.605e+000	0.625	0.781	0.004
2.002e+000	-0.025	0.015	1.000	2.783e-003					
3.610	5.210	-0.100	0.690	0.723	-0.023	3.454e+000	0.723	0.691	0.029
2.211e+000	-0.037	-0.004	0.999	-1.900e-003					
4.010	5.210	-0.100	0.712	-0.022	0.022	3.905e+000	0.701	0.712	0.033
2.427e+000	-0.039	-0.008	0.999	-4.638e-003					
-3.990	5.610	-0.100	0.957	-0.290	-0.008	1.227e+001	0.290	0.956	0.040
4.593e+000	-0.003	-0.040	0.999	-9.575e-003					
-3.590	5.610	-0.100	0.962	-0.273	-0.021	1.203e+001	0.273	0.958	0.076
4.440e+000	-0.001	-0.079	0.997	-2.259e-002					
3.190	5.610	-0.100	0.989	-0.137	-0.059	1.095e+001	0.144	0.979	0.145
3.986e+000	0.036	-0.152	0.988	-1.633e-001					
-2.790	5.610	-0.100	0.835	-0.316	-0.451	8.244e+000	-0.138	0.913	0.384
1.525e+000	0.533	-0.258	0.806	-2.230e+000					
-2.390	5.610	-0.100	0.572	0.804	-0.160	6.505e+000	0.815	0.580	-0.002
2.582e+000	-0.092	0.132	0.987	-2.270e-001					
-1.990	5.610	-0.100	0.821	-0.570	0.030	1.029e+001	0.570	0.821	0.029
1.973e+000	-0.042	-0.007	0.999	-3.279e-002					
-1.590	5.610	-0.100	0.867	-0.498	0.013	1.121e+001	0.497	0.867	0.034
2.348e+000	-0.028	-0.023	0.999	-1.199e-002					
-1.190	5.610	-0.100	0.888	-0.460	0.008	1.140e+001	0.460	0.887	0.031
2.925e+000	-0.021	-0.024	0.999	-8.569e-003					
-0.790	5.610	-0.100	0.900	-0.435	0.006	1.136e+001	0.435	0.900	0.029
3.564e+000	-0.018	-0.024	1.000	-8.663e-003					
-0.390	5.610	-0.100	0.911	-0.413	0.006	1.117e+001	0.412	0.911	0.029
4.310e+000	-0.017	-0.024	1.000	-1.060e-002					
0.010	5.610	-0.100	0.929	-0.370	0.009	1.082e+001	0.370	0.929	0.028
5.265e+000	-0.019	-0.022	1.000	-1.424e-002					
0.410	5.610	-0.100	0.978	-0.207	0.021	1.046e+001	0.207	0.978	0.013
6.362e+000	-0.023	-0.009	1.000	-1.795e-002					
0.810	5.610	-0.100	0.993	0.121	0.015	1.130e+001	-0.120	0.992	-0.040
5.914e+000	-0.020	0.038	0.999	-1.869e-002					
1.210	5.610	-0.100	0.998	0.061	-0.012	1.223e+001	-0.062	0.996	-0.070
3.326e+000	0.008	0.071	0.997	-1.518e-002					
1.610	5.610	-0.100	0.997	-0.076	-0.023	1.093e+001	0.075	0.997	-0.034
2.086e+000	0.026	0.032	0.999	-1.174e-002					
2.010	5.610	-0.100	0.989	-0.143	-0.037	9.004e+000	0.143	0.990	0.004
1.956e+000	0.036	-0.009	0.999	-2.829e-002					
2.410	5.610	-0.100	0.977	-0.198	-0.076	6.805e+000	0.201	0.979	0.036
2.140e+000	0.067	-0.051	0.996	-8.768e-002					
2.810	5.610	-0.100	0.510	0.859	0.056	3.756e+000	0.860	0.510	0.008
2.350e+000	0.021	-0.052	0.998	-1.771e-001					
3.210	5.610	-0.100	0.170	0.985	-0.017	2.776e+000	0.985	0.170	-0.026
1.948e+000	0.023	0.021	1.000	1.110e-002					
3.610	5.610	-0.100	0.602	0.798	-0.023	3.541e+000	0.798	0.602	0.025
2.232e+000	-0.034	0.003	0.999	1.126e-005					
4.010	5.610	-0.100	0.712	-0.702	0.021	4.166e+000	0.701	0.712	0.031
2.412e+000	-0.037	-0.007	0.999	-4.377e-003					
-3.990	6.010	-0.100	0.942	-0.335	-0.001	1.201e+001	0.335	0.941	0.041
5.484e+000	-0.013	-0.039	0.999	-1.200e-002					

-0.790	4.810	-0.100	0.877	-0.481	0.002	1.040e+001	0.480	0.876	0.047
3.144e+000	-0.024	-0.040	0.999	-1.315e-002					
-0.390	4.810	-0.100	0.889	-0.457	-0.005	1.060e+001	0.456	0.888	0.060
3.484e+000	-0.023	-0.055	0.998	-1.970e-002					
0.010	4.810	-0.100	0.901	-0.433	-0.016	1.054e+001	0.432	0.897	0.093
3.873e+000	-0.026	-0.090	0.996	-4.142e-002					
4.410	4.810	-0.100	0.926	-0.374	-0.039	1.008e+001	0.375	0.909	0.181
4.480e+000	-0.032	-0.183	0.983	-1.737e-001					
0.810	4.810	-0.100	0.952	0.013	-0.305	8.085e+000	0.112	0.914	0.390
4.871e+000	0.283	-0.406	0.869	-2.135e+000					
1.210	4.810	-0.100	0.740	-0.655	0.151	6.978e+000	0.670	0.696	-0.259
2.740e+000	0.055	0.293	0.954	-4.573e-001					
1.610	4.810	-0.100	0.874	-0.486	-0.004	8.572e+000	0.484	0.872	-0.078
1.593e+000	0.041	0.066	0.997	-3.498e-002					
2.010	4.810	-0.100	0.907	-0.420	-0.036	7.230e+000	0.418	0.907	-0.058
2.167e+000									

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-0.790 6.410 -0.100 0.956 -0.294 0.004 1.203e+001 0.294 0.956 0.007
3.694e+000 -0.006 -0.006 1.000 -3.426e-003
-0.390 6.410 -0.100 0.964 -0.267 0.004 1.164e+001 0.267 0.964 0.005
4.157e+000 -0.005 -0.004 1.000 -4.174e-003
0.010 6.410 -0.100 0.978 -0.209 0.002 1.131e+001 0.209 0.978 -0.000
4.496e+000 -0.002 0.000 1.000 -4.692e-003
0.410 6.410 -0.100 0.993 -0.121 -0.001 1.108e+001 0.121 0.993 -0.006
4.517e+000 0.002 0.006 1.000 -5.073e-003
0.810 6.410 -0.100 0.999 -0.037 -0.007 1.098e+001 0.037 0.999 -0.011
4.047e+000 0.008 0.011 1.000 -5.735e-003
1.210 6.410 -0.100 1.000 0.004 -0.015 1.072e+001 -0.004 1.000 -0.010
3.266e+000 0.015 0.010 1.000 -7.203e-003
1.610 6.410 -0.100 1.000 0.017 -0.023 9.975e+000 -0.017 1.000 -0.001
2.586e+000 0.023 0.002 1.000 -1.109e-002
2.010 6.410 -0.100 0.998 0.046 -0.036 8.641e+000 -0.045 0.999 0.016
2.185e+000 0.037 -0.015 0.999 -3.027e-002
2.410 6.410 -0.100 0.989 0.132 -0.073 6.546e+000 -0.127 0.990 0.068
1.884e+000 0.081 -0.058 0.995 -6.256e-002
2.810 6.410 -0.100 0.824 0.556 -0.104 7.275e+000 -0.462 0.768 0.444
-9.788e-001 0.327 -0.318 0.890 -6.850e+000
3.210 6.410 -0.100 0.758 -0.651 0.041 3.908e+000 0.652 0.759 -0.009
2.145e+000 -0.025 0.034 0.999 -1.744e-002
3.610 6.410 -0.100 0.736 -0.677 0.026 4.458e+000 0.676 0.736 0.022
2.106e+000 -0.034 0.002 0.999 -4.103e-003
4.010 6.410 -0.100 0.772 -0.635 0.020 5.006e+000 0.635 0.772 0.028
2.310e+000 -0.033 -0.009 0.999 -4.750e-003
-3.990 6.810 -0.100 0.970 -0.244 0.012 1.102e+001 0.244 0.970 0.008
6.805e+000 -0.014 -0.005 1.000 -3.382e-003
-3.590 6.810 -0.100 0.988 -0.155 0.021 1.096e+001 0.155 0.988 0.005
7.696e+000 -0.022 -0.002 1.000 -7.962e-003
-3.190 6.810 -0.100 0.989 0.148 0.026 1.159e+001 -0.148 0.989 -0.021
8.057e+000 -0.029 0.017 0.999 -1.392e-002
-2.790 6.810 -0.100 0.977 0.211 0.012 1.342e+001 -0.210 0.976 -0.055
6.483e+000 -0.023 0.051 0.998 -1.496e-002
-2.390 6.810 -0.100 0.999 0.045 0.002 1.430e+001 -0.045 0.997 -0.059
4.296e+000 -0.004 0.058 0.998 -5.502e-003
-1.990 6.810 -0.100 0.995 -0.103 0.001 1.384e+001 0.103 0.994 -0.031
3.313e+000 0.002 0.031 1.000 7.659e-004
-1.590 6.810 -0.100 0.993 -0.185 0.002 1.314e+001 0.185 0.993 -0.010
3.224e+000 -0.001 0.010 1.000 2.738e-004
-1.190 6.810 -0.100 0.975 -0.221 0.003 1.259e+001 0.221 0.975 -0.001
3.436e+000 -0.003 0.002 1.000 -1.191e-003
-0.790 6.810 -0.100 0.973 -0.229 0.003 1.217e+001 0.229 0.974 0.001
3.714e+000 -0.003 -0.001 1.000 -2.340e-003
-0.390 6.810 -0.100 0.977 -0.212 0.002 1.183e+001 0.212 0.977 0.001
3.956e+000 -0.002 -0.000 1.000 -3.206e-003
0.010 6.810 -0.100 0.985 -0.173 -0.000 1.154e+001 0.173 0.985 -0.002
4.069e+000 0.001 0.002 1.000 -3.912e-003
0.410 6.810 -0.100 0.993 -0.117 -0.004 1.128e+001 0.117 0.993 -0.004
3.950e+000 0.005 0.004 1.000 -4.638e-003
0.810 6.810 -0.100 0.998 -0.060 -0.009 1.102e+001 0.060 0.998 -0.005
3.551e+000 0.010 0.004 1.000 -5.686e-003
1.210 6.810 -0.100 1.000 -0.015 -0.016 1.060e+001 0.015 1.000 -0.002
2.970e+000 0.016 0.002 1.000 -7.479e-003
1.610 6.810 -0.100 0.999 0.024 -0.024 9.868e+000 -0.024 1.000 0.007
2.376e+000 0.024 -0.007 1.000 -1.209e-002

-3.590 7.610 -0.100 1.000 -0.004 0.008 1.087e+001 0.004 1.000 -0.011
6.352e+000 -0.008 0.011 1.000 -1.364e-004
-3.190 7.610 -0.100 0.998 0.056 0.007 1.126e+001 -0.056 0.998 -0.015
6.121e+000 -0.007 0.015 1.000 -1.239e-004
-2.790 7.610 -0.100 0.998 0.064 0.004 1.178e+001 -0.064 0.998 -0.019
5.555e+000 -0.006 0.018 1.000 1.310e-004
-2.390 7.610 -0.100 1.000 0.024 0.003 1.218e+001 -0.024 1.000 -0.018
4.883e+000 -0.003 0.019 1.000 4.607e-004
-1.990 7.610 -0.100 0.999 -0.035 0.002 1.234e+001 0.035 0.999 -0.014
4.356e+000 -0.002 0.014 1.000 4.807e-004
-1.590 7.610 -0.100 0.996 -0.088 0.002 1.231e+001 0.088 0.996 -0.009
4.054e+000 -0.001 0.010 1.000 4.244e-005
-1.190 7.610 -0.100 0.992 -0.126 0.002 1.218e+001 0.126 0.992 -0.005
3.921e+000 -0.001 0.005 1.000 -6.743e-004
-0.790 7.610 -0.100 0.989 -0.147 0.001 1.202e+001 0.147 0.989 -0.003
3.862e+000 -0.001 0.003 1.000 -1.465e-003
-0.390 7.610 -0.100 0.988 -0.153 -0.000 1.185e+001 0.153 0.988 -0.001
3.792e+000 0.000 0.001 1.000 -2.234e-003
0.010 7.610 -0.100 0.990 -0.144 -0.003 1.167e+001 0.144 0.990 0.001
3.644e+000 0.002 -0.001 1.000 -2.994e-003
0.410 7.610 -0.100 0.992 -0.122 -0.006 1.146e+001 0.122 0.992 0.003
3.369e+000 0.006 -0.004 1.000 -3.891e-003
0.810 7.610 -0.100 0.996 -0.090 -0.011 1.115e+001 0.090 0.996 0.008
2.954e+000 0.010 -0.009 1.000 -5.296e-003
1.210 7.610 -0.100 0.999 -0.048 -0.017 1.068e+001 0.048 0.999 0.018
2.430e+000 0.016 -0.019 1.000 -7.999e-003
1.610 7.610 -0.100 1.000 0.012 -0.026 9.933e+000 -0.012 0.999 0.038
1.878e+000 0.026 -0.037 0.999 -1.571e-002
2.010 7.610 -0.100 0.993 0.110 -0.042 8.715e+000 -0.106 0.989 0.104
1.439e+000 0.053 -0.099 0.994 -6.329e-002
2.410 7.610 -0.100 0.942 0.330 -0.053 6.923e+000 -0.300 0.904 0.305
9.728e-001 0.149 -0.272 0.951 -1.742e-001
2.810 7.610 -0.100 0.965 0.258 -0.041 5.998e+000 -0.261 0.944 -0.203
3.510e+000 -0.013 0.207 0.978 -1.217e-001
3.210 7.610 -0.100 0.808 -0.588 0.040 5.049e+000 0.589 0.808 -0.011
2.495e+000 -0.026 0.032 0.999 -1.441e-002
3.610 7.610 -0.100 0.806 -0.591 0.024 5.896e+000 0.591 0.806 0.019
2.309e+000 -0.031 -0.002 1.000 -8.032e-003
4.010 7.610 -0.100 0.841 -0.540 0.016 6.522e+000 0.540 0.841 0.024
2.365e+000 -0.026 -0.012 1.000 -5.286e-003
-3.990 8.010 -0.100 0.999 -0.042 0.005 1.063e+001 0.042 0.999 -0.008
5.859e+000 -0.005 0.008 1.000 3.466e-004
-3.590 8.010 -0.100 1.000 -0.001 0.005 1.080e+001 0.001 1.000 -0.010
5.864e+000 -0.005 0.010 1.000 3.574e-004
-3.190 8.010 -0.100 1.000 0.029 0.004 1.108e+001 -0.029 1.000 -0.012
5.676e+000 -0.005 0.012 1.000 4.015e-004
-2.790 8.010 -0.100 0.999 0.032 0.004 1.141e+001 -0.032 0.999 -0.013
5.318e+000 -0.004 0.013 1.000 4.709e-004
-2.390 8.010 -0.100 1.000 0.007 0.003 1.169e+001 -0.007 1.000 -0.013
4.899e+000 -0.003 0.013 1.000 4.863e-004
-1.990 8.010 -0.100 1.000 -0.031 0.002 1.185e+001 0.032 0.999 -0.011
4.534e+000 -0.002 0.011 1.000 3.329e-004
-1.590 8.010 -0.100 0.997 -0.071 0.002 1.191e+001 0.071 0.997 -0.008
4.276e+000 -0.002 0.008 1.000 -3.834e-005
-1.190 8.010 -0.100 0.995 -0.105 0.002 1.188e+001 0.105 0.994 -0.005
4.110e+000 -0.001 0.005 1.000 -5.798e-004

2.010 6.810 -0.100 0.996 0.079 -0.040 8.724e+000 -0.078 0.997 0.025
1.843e+000 0.041 -0.021 0.999 -3.251e-002
2.410 6.810 -0.100 0.977 0.194 -0.092 7.047e+000 -0.184 0.977 0.109
1.362e+000 0.111 -0.089 0.990 -1.417e-001
2.810 6.810 -0.100 0.883 0.450 -0.134 4.269e+000 -0.459 0.887 -0.053
2.302e+000 0.095 0.108 0.990 2.852e-002
3.210 6.810 -0.100 0.774 -0.632 0.046 3.743e+000 0.633 0.773 -0.032
2.757e+000 -0.015 0.053 0.998 3.540e-004
3.610 6.810 -0.100 0.767 -0.641 0.027 4.793e+000 0.641 0.768 0.017
2.283e+000 -0.032 0.004 0.999 -5.101e-003
4.010 6.810 -0.100 0.801 -0.599 0.019 5.448e+000 0.598 0.801 0.026
2.345e+000 -0.031 -0.009 0.999 -4.922e-003
-3.990 7.210 -0.100 0.990 -0.138 0.010 1.078e+001 0.138 0.990 -0.003
6.638e+000 -0.010 0.004 1.000 -9.553e-004
-3.590 7.210 -0.100 0.999 -0.032 0.013 1.090e+001 0.032 0.999 -0.008
7.013e+000 -0.013 0.009 1.000 -1.820e-003
-3.190 7.210 -0.100 0.995 0.099 0.011 1.146e+001 -0.098 0.995 -0.019
6.836e+000 -0.013 0.018 1.000 -2.373e-003
-2.790 7.210 -0.100 0.993 0.119 0.006 1.236e+001 -0.118 0.993 -0.029
5.903e+000 -0.010 0.028 1.000 -1.764e-003
-2.390 7.210 -0.100 0.999 0.042 0.003 1.295e+001 -0.041 0.999 -0.029
4.755e+000 -0.004 0.029 1.000 -1.544e-004
-1.990 7.210 -0.100 0.999 -0.052 0.002 1.300e+001 0.052 0.998 -0.021
4.002e+000 -0.001 0.021 1.000 7.027e-004
-1.590 7.210 -0.100 0.993 -0.122 0.002 1.275e+001 0.122 0.992 -0.011
3.714e+000 -0.001 0.011 1.000 2.015e-004
-1.190 7.210 -0.100 0.987 -0.163 0.002 1.244e+001 0.163 0.987 -0.004
3.694e+000 -0.002 0.005 1.000 -8.078e-004
-0.790 7.210 -0.100 0.984 -0.180 0.002 1.216e+001 0.180 0.984 -0.002
3.769e+000 -0.002 0.002 1.000 -1.793e-003
-0.390 7.210 -0.100 0.985 -0.175 0.001 1.190e+001 0.175 0.985 -0.001
3.827e+000 -0.000 0.001 1.000 -2.650e-003
0.010 7.210 -0.100 0.988 -0.153 -0.002 1.166e+001 0.153 0.988 -0.001
3.784e+000 0.002 0.001 1.000 -3.427e-003
0.410 7.210 -0.100 0.993 -0.118 -0.006 1.140e+001 0.118 0.993 -0.001
3.577e+000 0.006 0.000 1.000 -4.278e-003
0.810 7.210 -0.100 0.997 -0.075 -0.010 1.109e+001 0.075 0.997 0.001
3.190e+000 0.010 -0.002 1.000 -5.496e-003
1.210 7.210 -0.100 0.999 -0.030 -0.017 1.061e+001 0.031 1.000 0.007
2.677e+000 0.016 -0.007 1.000 -7.654e-003
1.610 7.210 -0.100 1.000 0.018 -0.025 9.848e+000 -0.018 1.000 0.022
2.136e+000 0.025 -0.022 0.999 -1.430e-002
2.010 7.210 -0.100 0.996 0.077 -0.044 8.620e+000 -0.074 0.994 0.075
1.618e+000 0.050 -0.072 0.996 -4.113e-002
2.410 7.210 -0.100 0.977 0.183 -0.109 6.511e+000 -0.142 0.942 0.305
9.575e-001 0.159 -0.283 0.946 -2.346e-001
2.810 7.210 -0.100 0.353 0.887 -0.298 3.828e+000 0.935 -0.348 0.072
1.619e+000 0.040 0.304 0.952 1.241e-001
3.210 7.210 -0.100 -0.653 0.755 -0.055 4.390e+000 0.756 0.655 0.018
2.313e+000 -0.050 0.030 0.998 -2.384e-002
3.610 7.210 -0.100 0.776 -0.630 0.026 5.300e+000 0.630 0.777 0.022
2.287e+000 -0.024 -0.000 0.999 -7.849e-003
0.410 7.210 -0.100 0.821 -0.570 0.018 5.948e+000 0.570 0.821 0.025
2.364e+000 -0.029 -0.011 1.000 -5.225e-003
-3.990 7.610 -0.100 0.997 -0.073 0.007 1.069e+001 0.073 0.997 -0.007
6.246e+000 -0.007 0.007 1.000 -8.218e-006

-0.790 8.010 -0.100 0.992 -0.128 0.001 1.181e+001 0.128 0.992 -0.002
3.987e+000 -0.001 0.003 1.000 -1.210e-003
-0.390 8.010 -0.100 0.990 -0.140 -0.000 1.172e+001 0.140 0.990 0.000
3.849e+000 0.000 -0.000 1.000 -1.874e-003
0.010 8.010 -0.100 0.990 -0.142 -0.002 1.160e+001 0.142 0.990 0.004
3.642e+000 0.002 -0.004 1.000 -2.599e-003
0.410 8.010 -0.100 0.991 -0.132 -0.006 1.144e+001 0.132 0.991 0.009
3.322e+000 0.005 -0.010 1.000 -3.592e-003
0.810 8.010 -0.100 0.994 -0.110 -0.011 1.119e+001 0.111 0.994 0.018
2.871e+000 0.009 -0.019 1.000 -5.476e-003
1.210 8.010 -0.100 0.997 -0.073 -0.018 1.077e+001 0.074 0.997 0.036
2.298e+000 0.015 -0.037 0.999 -9.775e-003
1.610 8.010 -0.100 0.999 -0.014 -0.029 1.008e+001 0.016 0.997 0.079
1.645e+000 0.027 -0.079 0.996 -2.175e-002
2.010 8.010 -0.100 0.995 0.087 -0.053 8.929e+000 -0.075 0.975 0.209
9.555e-001 0.070 -0.204 0.976 -7.808e-002
2.410 8.010 -0.100 0.923 0.328 -0.202 6.944e+000 -0.201 0.856 0.476
6.590e-001 0.329 -0.398 0.856 -8.471e-001
2.810 8.010 -0.100 0.314 0.938 -0.149 4.091e+000 0.947 -0.297 0.122
2.379e+000 -0.070 0.179 0.981 -4.905e-002
3.210 8.010 -0.100 0.736 -0.675 0.050 5.355e+000 0.676 0.737 0.005
2.587e+000 -0.040 0.030 0.999 -2.268e-002
3.610 8.010 -0.100 0.821 -0.570 0.022 6.558e+000 0.570 0.821 0.020
2.307e+000 -0.030 -0.004 1.000 -9.053e-003
4.010 8.010 -0.100 0.861 -0.508 0.014 7.181e+000 0.508 0.861 0.024
2.342e+000 -0.024 -0.013 1.000 -5.259e-003

OUTPUT FROM: poly3d.c, version Beta-Release
COMPILED: Feb 2 1999

INPUT FILE: combined_trial.in
TITLE1: "four-fault model"
TITLE2: "slir=10, s22r=8"

ELASTIC CONSTANTS:
Shear Modulus = 30000.000000
Poisson's Ratio = 0.250000
Young's Modulus = 75000.000000
Bulk Modulus = 50000.000000
Lame's Lambda = 30000.000000

NULL OUTPUT VALUE = -999.000000

COEF EXCLUSION VALUE = 0.000000

CONDITION NUMBER = 474.637831

OBJECT: pcf
ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT U2(+)	X1C U2(-)	X2C	X3C	B1	U1(+)	U1(-)	B2
U2(+)	U2(-)	B3	U3(+)	U3(-)	Coord Sys		
1	2.222	9.135	-0.627	4.476e-004	2.066e-004	-2.410e-004	-5.926e-005
2.123e-005	3.803e-005	0.000e+000	-6.042e-005	-6.042e-005	elocal		
2	2.386	8.817	-0.313	5.595e-004	-2.981e-004	-8.576e-004	-3.734e-005
3.523e-005	7.257e-005	0.000e+000	-9.111e-005	-9.111e-005	elocal		
3	2.372	8.135	-0.627	7.094e-004	3.446e-004	-3.648e-004	-8.547e-005
3.851e-005	4.695e-005	0.000e+000	-1.144e-004	-1.144e-004	elocal		
4	2.536	7.817	-0.313	7.743e-004	-4.043e-004	-1.179e-003	-7.695e-005
4.696e-005	1.239e-004	0.000e+000	-1.444e-004	-1.444e-004	elocal		
5	2.522	7.135	-0.627	8.424e-004	4.111e-004	-4.312e-004	-1.206e-004
6.413e-005	5.644e-005	0.000e+000	-1.578e-004	-1.578e-004	elocal		
6	2.686	6.817	-0.313	8.828e-004	4.211e-004	-4.617e-004	-1.247e-004
6.366e-005	6.107e-005	0.000e+000	-1.858e-004	-1.858e-004	elocal		
7	2.672	6.135	-0.627	9.052e-004	-4.659e-004	-1.371e-003	-1.639e-004
6.790e-005	2.317e-004	0.000e+000	-1.992e-004	-1.992e-004	elocal		
8	2.836	5.817	-0.313	9.262e-004	-4.878e-004	-1.414e-003	-1.780e-004
7.709e-005	2.551e-004	0.000e+000	-2.288e-004	-2.288e-004	elocal		
9	2.715	5.171	-0.627	9.401e-004	-4.889e-004	-1.429e-003	-1.044e-004
4.585e-005	5.852e-005	0.000e+000	-2.254e-004	-2.254e-004	elocal		
10	2.773	4.853	-0.313	9.519e-004	-5.325e-004	-1.484e-003	-1.324e-004
3.460e-005	9.785e-005	0.000e+000	-2.584e-004	-2.584e-004	elocal		
11	2.549	4.207	-0.627	9.189e-004	-5.415e-004	-1.460e-003	-1.429e-004
1.988e-005	1.230e-004	0.000e+000	-2.780e-004	-2.780e-004	elocal		
12	2.609	3.853	-0.313	9.191e-004	-3.489e-004	-5.703e-004	-1.563e-004
1.747e-004	-1.841e-005	0.000e+000	-3.147e-004	-3.147e-004	elocal		

41	2.373	5.159	-1.566	8.737e-004	4.254e-004	-4.483e-004	-6.310e-005
9.720e-005	3.410e-005	0.000e+000	-1.431e-004	-1.431e-004	elocal		
42	2.431	4.878	-1.253	8.974e-004	-4.810e-004	-1.378e-003	-8.470e-005
3.000e-005	5.470e-005	0.000e+000	-2.001e-004	-2.001e-004	elocal		
43	2.207	4.267	-1.566	8.590e-004	3.635e-004	-4.955e-004	-9.249e-005
1.029e-004	-1.045e-005	0.000e+000	-1.796e-004	-1.796e-004	elocal		
44	2.267	3.914	-1.253	8.760e-004	3.541e-004	-5.219e-004	-1.064e-004
1.208e-004	-1.437e-005	0.000e+000	-2.410e-004	-2.410e-004	elocal		
45	2.043	3.267	-1.566	8.310e-004	-5.257e-004	-1.357e-003	-8.959e-005
1.430e-005	7.529e-005	0.000e+000	-2.138e-004	-2.138e-004	elocal		
46	2.101	2.914	-1.253	8.452e-004	-5.482e-004	-1.393e-003	-9.870e-005
1.851e-005	8.019e-005	0.000e+000	-2.766e-004	-2.766e-004	elocal		
47	1.847	2.288	-1.566	8.055e-004	2.578e-004	-5.477e-004	-5.741e-005
1.113e-004	-5.388e-005	0.000e+000	-2.344e-004	-2.344e-004	elocal		
48	1.877	1.945	-1.253	8.183e-004	-5.736e-004	-1.392e-003	-6.563e-005
5.819e-005	7.444e-006	0.000e+000	-2.958e-004	-2.958e-004	elocal		
49	1.597	1.319	-1.566	7.791e-004	2.063e-004	-5.728e-004	-4.946e-005
1.031e-004	-5.363e-005	0.000e+000	-2.547e-004	-2.547e-004	elocal		
50	1.627	0.956	-1.253	7.923e-004	1.987e-004	-5.936e-004	-5.097e-005
1.125e-004	-6.156e-005	0.000e+000	-3.160e-004	-3.160e-004	elocal		
51	1.347	0.319	-1.566	7.609e-004	1.718e-004	-5.891e-004	-2.786e-005
9.239e-005	-6.453e-005	0.000e+000	-2.671e-004	-2.671e-004	elocal		
52	1.377	-0.093	-1.253	7.755e-004	1.597e-004	-6.178e-004	-2.840e-005
8.13e-005	-5.973e-005	0.000e+000	-3.175e-004	-3.175e-004	elocal		
53	1.180	-0.493	-1.566	7.516e-004	1.603e-004	-5.913e-004	-6.894e-005
3.105e-005	3.789e-005	0.000e+000	-2.779e-004	-2.779e-004	elocal		
54	1.222	-0.923	-1.566	7.435e-004	1.806e-004	-5.629e-004	-8.337e-005
4.360e-006	8.773e-005	0.000e+000	-2.718e-004	-2.718e-004	elocal		
55	1.377	-1.239	-1.253	7.624e-004	-5.524e-004	-1.315e-003	-6.430e-005
9.482e-005	1.591e-004	0.000e+000	-3.184e-004	-3.184e-004	elocal		
56	1.241	-1.923	-1.566	7.365e-004	2.389e-004	-4.976e-004	-2.046e-005
2.944e-005	-4.989e-005	0.000e+000	-2.590e-004	-2.590e-004	elocal		
57	1.397	-2.239	-1.253	7.934e-004	-5.569e-004	-1.350e-003	-6.718e-005
9.894e-005	1.661e-004	0.000e+000	-2.500e-004	-2.500e-004	elocal		
58	1.158	-2.771	-1.566	8.049e-004	2.968e-004	-5.082e-004	-7.170e-005
2.772e-005	-9.942e-005	0.000e+000	-2.006e-004	-2.006e-004	elocal		
59	1.211	-3.010	-1.253	8.056e-004	-4.500e-004	-1.256e-003	-1.305e-004
1.857e-004	-3.162e-004	0.000e+000	-2.368e-004	-2.368e-004	elocal		
60	0.763	-3.543	-1.566	8.127e-004	3.441e-004	-4.686e-004	6.597e-005
5.601e-005	-1.220e-004	0.000e+000	-2.047e-004	-2.047e-004	elocal		
61	0.711	-3.934	-1.253	8.062e-004	3.317e-004	-4.745e-004	3.971e-005
7.762e-005	-1.173e-004	0.000e+000	-2.389e-004	-2.389e-004	elocal		
62	0.263	-4.543	-1.566	7.040e-004	2.629e-004	-4.412e-004	4.193e-005
6.606e-005	-1.080e-004	0.000e+000	-1.948e-004	-1.948e-004	elocal		
63	0.211	-4.934	-1.253	6.706e-004	2.308e-004	-4.399e-004	1.928e-005
8.686e-005	-1.061e-004	0.000e+000	-2.253e-004	-2.253e-004	elocal		
64	-0.237	-5.543	-1.566	4.870e-004	1.153e-004	-3.717e-004	3.433e-005
6.418e-005	-9.850e-005	0.000e+000	-1.743e-004	-1.743e-004	elocal		
65	-0.289	-5.934	-1.253	4.139e-004	6.171e-005	-3.522e-004	1.216e-005
8.218e-005	-9.434e-005	0.000e+000	-1.940e-004	-1.940e-004	elocal		
66	1.538	9.039	-2.506	3.687e-004	1.711e-004	-1.975e-004	-7.756e-005
4.190e-005	3.567e-005	0.000e+000	-5.470e-006	-5.470e-006	elocal		
67	1.702	8.721	-2.192	4.487e-004	2.133e-004	-2.354e-004	-9.043e-005
4.896e-005	4.147e-005	0.000e+000	-2.690e-005	-2.690e-005	elocal		
68	1.688	8.039	-2.506	5.651e-004	2.738e-004	-2.913e-004	-1.141e-004
6.285e-005	5.129e-005	0.000e+000	-1.978e-005	-1.978e-005	elocal		

13	2.385	3.207	-0.627	8.823e-004	3.122e-004	-5.701e-004	-1.374e-004
1.587e-004	-2.128e-005	0.000e+000	-3.248e-004	-3.248e-004	elocal		
14	2.443	2.853	-0.313	8.795e-004	-5.940e-004	-1.473e-003	-1.432e-004
1.973e-005	1.234e-004	0.000e+000	-3.589e-004	-3.589e-004	elocal		
15	2.189	2.217	-0.627	8.518e-004	-5.908e-004	-1.443e-003	-1.023e-004
6.460e-005	3.769e-005	0.000e+000	-3.524e-004	-3.524e-004	elocal		
16	2.219	1.864	-0.313	8.488e-004	2.285e-004	-6.203e-004	-1.066e-004
1.683e-004	-6.163e-005	0.000e+000	-3.839e-004	-3.839e-004	elocal		
17	1.939	1.228	-0.627	8.209e-004	-6.171e-004	-1.438e-003	-8.145e-005
6.456e-005	1.689e-005	0.000e+000	-3.792e-004	-3.792e-004	elocal		
18	1.969	0.864	-0.313	8.188e-004	1.798e-004	-6.390e-004	-7.694e-005
1.447e-004	-6.775e-005	0.000e+000	-4.100e-004	-4.100e-004	elocal		
19	1.689	0.179	-0.627	7.989e-004	1.682e-004	-6.307e-004	-4.933e-005
1.093e-004	-5.998e-005	0.000e+000	-3.988e-004	-3.988e-004	elocal		
20	1.719	-0.185	-0.313	8.025e-004	1.718e-004	-6.307e-004	-2.575e-005
1.097e-004	-8.398e-005	0.000e+000	-4.347e-004	-4.347e-004	elocal		
21	1.564	-0.869	-0.627	7.841e-004	-6.063e-004	-1.390e-003	-5.370e-005
1.213e-004	1.750e-004	0.000e+000	-3.907e-004	-3.907e-004	elocal		
22	1.719	-1.185	-0.313	7.948e-004	-5.985e-004	-1.393e-003	-2.085e-005
1.300e-004	1.509e-004	0.000e+000	-3.946e-004	-3.946e-004	elocal		
23	1.689	-1.869	-0.627	8.057e-004	-5.210e-004	-1.327e-003	-1.407e-005
1.076e-004	1.217e-004	0.000e+000	-3.381e-004	-3.381e-004	elocal		
24	1.844	-2.185	-0.313	8.366e-004	3.213e-004	-5.153e-004	-1.258e-006
1.221e-004	1.233e-004	0.000e+000	-3.258e-004	-3.258e-004	elocal		
25	1.605	-2.793	-0.627	8.116e-004	3.817e-004	-4.299e-004	1.257e-004
6.004e-005	-1.857e-004	0.000e+000	-2.824e-004	-2.824e-004	elocal		
26	1.553	-3.109	-0.313	8.379e-004	-5.116e-004	-1.350e-003	6.464e-005
1.290e-004	-1.937e-004	0.000e+000	-2.843e-004	-2.843e-004	elocal		
27	1.105	-3.717	-0.627	8.360e-004	-4.994e-004	-1.335e-003	1.291e-005
1.164e-004	-1.293e-004	0.000e+000	-2.757e-004	-2.757e-004	elocal		
28	1.053	-4.109	-0.313	8.271e-004	3.145e-004	-5.126e-004	-2.335e-005
1.280e-004	-1.047e-004	0.000e+000	-2.858e-004	-2.858e-004	elocal		
29	0.605	-4.717	-0.627	7.264e-004	-4.700e-004	-1.196e-003	-2.985e-005
1.033e-004	-7.343e-005	0.000e+000	-2.717e-004	-2.717e-004	elocal		
30	0.553	-5.109	-0.313	6.869e-004	2.164e-004	-4.705e-004	-6.395e-005
1.501e-004	-9.210e-005	0.000e+000	-2.804e-004	-2.804e-004	elocal		
31	0.105	-5.717	-0.627	4.941e-004	1.039e-004	-3.902e-004	-3.303e-005
1.301e-004	-9.703e-005	0.000e+000	-2.474e-004	-2.474e-004	elocal		
32	0.053	-6.109	-0.313	4.167e-004	4.753e-005	-3.692e-004	-6.054e-005
1.474e-004	-8.684e-005	0.000e+000	-2.462e-004	-2.462e-004	elocal		
33	1.890	9.087	-1.566	4.070e-004	1.905e-004	-2.165e-004	-7.818e-005
3.990e-005	3.828e-005	0.000e+000	-3.091e-005	-3.091e-005	elocal		
34	2.044	8.769	-1.253	4.959e-004	-2.576e-004	-7.535e-004	-8.658e-005
4.351e-005	1.301e-004	0.000e+000	-6.110e-005	-6.110e-005	elocal		
35	2.030	8.087	-1.566	6.385e-004	-3.245e-004	-9.630e-004	-1.155e-004
5.415e-005	1.697e-004	0.000e+000	-6.146e-005	-6.146e-005	elocal		
36	2.194	7.769	-1.253	7.033e-004	3.489e-004	-3.544e-004	-1.164e-004
6.120e-005	5.523e-005	0.000e+000	-1.014e-004	-1.014e-004	elocal		
37	2.180	7.087	-1.566	7.679e-004	-3.859e-004	-1.154e-003	-1.373e-004
6.146e-005	1.988e-004	0.000e+000	-9.321e-005	-9.321e-005	elocal		
38	2.344	6.769	-1.253	8.166e-004	4.069e-004	-4.097e-004	-1.411e-004
7.879e-005	6.227e-005	0.000e+000	-1.393e-004	-1.393e-004	elocal		
39	2.330	6.087	-1.566	8.374e-004	4.163e-004	-4.211e-004	-1.562e-004
9.022e-005	6.602e-005	0.000e+000	-1.268e-004	-1.268e-004	elocal		
40	2.494	5.769	-1.253	8.727e-004	4.336e-004	-4.390e-004	-1.653e-004
9.807e-005	6.720e-005	0.000e+000	-1.792e-004	-1.792e-004	elocal		

Joe

Joe

97 -0.579 -5.368 -2.506 4.610e-004 1.105e-004 -3.505e-004 7.842e-005 -
1.134e-005 -8.975e-005 0.000e+000 -8.991e-005 -8.991e-005 elocal
98 -0.631 -5.760 -2.192 4.018e-004 6.617e-005 -3.356e-004 5.336e-005 -
3.256e-005 -8.592e-005 0.000e+000 -1.130e-004 -1.130e-004 elocal
99 1.196 8.991 -3.446 3.142e-004 1.433e-004 -1.709e-004 -7.115e-005 -
3.839e-005 3.276e-005 0.000e+000 1.588e-005 1.588e-005 elocal
100 1.360 8.673 -3.132 3.906e-004 1.827e-004 -2.079e-004 -8.333e-005 -
4.562e-005 3.772e-005 0.000e+000 7.628e-007 7.628e-007 elocal
101 1.346 7.991 -3.446 4.673e-004 -2.455e-004 -7.128e-004 -9.970e-005 -
4.495e-005 1.447e-004 0.000e+000 1.425e-005 1.425e-005 elocal
102 1.510 7.673 -3.132 5.336e-004 2.564e-004 -2.771e-004 -1.052e-004 -
5.863e-005 4.658e-005 0.000e+000 -8.495e-006 -8.495e-006 elocal
103 1.496 6.991 -3.446 5.529e-004 2.646e-004 -2.883e-004 -1.057e-004 -
5.901e-005 4.672e-005 0.000e+000 8.193e-006 8.193e-006 elocal
104 1.660 6.673 -3.132 6.181e-004 -3.195e-004 -9.376e-004 -1.083e-004 -
4.707e-005 1.554e-004 0.000e+000 -2.063e-005 -2.063e-005 elocal
105 1.646 5.991 -3.446 6.054e-004 2.874e-004 -3.179e-004 -9.773e-005 -
5.465e-005 4.308e-005 0.000e+000 -5.162e-007 -5.162e-007 elocal
106 1.810 5.673 -3.132 6.679e-004 -3.474e-004 -1.015e-003 -9.861e-005 -
4.319e-005 1.418e-004 0.000e+000 -3.433e-005 -3.433e-005 elocal
107 1.689 5.135 -3.446 6.347e-004 -3.452e-004 -9.799e-004 1.430e-005 -
1.602e-005 -3.032e-005 0.000e+000 -1.617e-006 -1.617e-006 elocal
108 1.747 4.926 -3.132 6.782e-004 3.015e-004 -3.767e-004 6.395e-006 -
1.274e-005 -1.914e-005 0.000e+000 -3.790e-005 -3.790e-005 elocal
109 1.523 4.388 -3.446 6.188e-004 -3.732e-004 -9.920e-004 -5.919e-006 -
2.402e-005 3.517e-006 0.000e+000 -5.533e-006 -5.533e-006 elocal
110 1.583 4.034 -3.132 6.693e-004 -4.118e-004 -1.081e-003 -1.129e-005 -
8.097e-006 3.190e-006 0.000e+000 -4.278e-005 -4.278e-005 elocal
111 1.359 3.388 -3.446 6.054e-004 -4.006e-004 -1.006e-003 -1.630e-006 -
9.111e-006 -7.481e-006 0.000e+000 -9.923e-006 -9.923e-006 elocal
112 1.417 3.034 -3.132 6.532e-004 2.162e-004 -4.370e-004 -7.548e-006 -
2.178e-005 -1.423e-005 0.000e+000 -5.198e-005 -5.198e-005 elocal
113 1.163 2.430 -3.446 5.932e-004 -4.220e-004 -1.015e-003 2.330e-005 -
3.158e-005 -5.488e-005 0.000e+000 -1.230e-005 -1.230e-005 elocal
114 1.193 2.108 -3.132 6.367e-004 -4.587e-004 -1.095e-003 1.694e-005 -
3.945e-005 -5.639e-005 0.000e+000 -5.572e-005 -5.572e-005 elocal
115 0.913 1.503 -3.446 5.791e-004 -4.421e-004 -1.021e-003 1.587e-005 -
3.256e-005 -4.843e-005 0.000e+000 -1.519e-005 -1.519e-005 elocal
116 0.943 1.139 -3.132 6.236e-004 -4.779e-004 -1.101e-003 1.275e-005 -
4.135e-005 -5.409e-005 0.000e+000 -6.061e-005 -6.061e-005 elocal
117 0.663 0.503 -3.446 5.681e-004 -4.558e-004 -1.024e-003 1.755e-005 -
3.993e-005 -5.748e-005 0.000e+000 -1.471e-005 -1.471e-005 elocal
118 0.693 0.139 -3.132 6.118e-004 1.204e-004 -4.914e-004 1.426e-005 -
3.504e-005 -4.930e-005 0.000e+000 -5.867e-005 -5.867e-005 elocal
119 0.496 -0.358 -3.446 5.629e-004 -4.647e-004 -1.028e-003 -4.454e-005 -
2.404e-007 4.478e-005 0.000e+000 -1.834e-005 -1.834e-005 elocal
120 0.610 -0.535 -3.132 5.920e-004 -4.823e-004 -1.074e-003 -4.982e-005 -
3.922e-006 5.374e-005 0.000e+000 -7.250e-005 -7.250e-005 elocal
121 0.538 -1.032 -3.446 5.593e-004 -4.423e-004 -1.002e-003 -8.015e-005 -
2.159e-005 1.017e-004 0.000e+000 -3.100e-005 -3.100e-005 elocal
122 0.693 -1.348 -3.132 6.070e-004 -4.541e-004 -1.061e-003 -8.149e-005 -
2.888e-005 1.104e-004 0.000e+000 -8.291e-005 -8.291e-005 elocal
123 0.496 -2.061 -3.446 5.507e-004 1.473e-004 -4.034e-004 1.404e-005 -
4.471e-005 -5.874e-005 0.000e+000 -3.218e-005 -3.218e-005 elocal
124 0.485 -2.481 -3.132 6.109e-004 1.817e-004 -4.292e-004 7.086e-006 -
4.489e-005 -5.197e-005 0.000e+000 -7.098e-005 -7.098e-005 elocal

153 0.196 -1.086 -4.385 3.538e-004 2.915e-005 -3.246e-004 -5.529e-005 -
6.220e-005 -6.909e-006 0.000e+000 6.611e-005 6.611e-005 elocal
154 0.351 -1.402 -4.072 4.441e-004 8.024e-005 -3.639e-004 -5.627e-005 -
5.950e-005 -3.222e-006 0.000e+000 2.215e-005 2.215e-005 elocal
155 0.154 -2.039 -4.385 3.433e-004 3.629e-005 -3.070e-004 3.239e-005 -
5.916e-006 -3.830e-005 0.000e+000 6.338e-005 6.338e-005 elocal
156 0.143 -2.383 -4.072 4.387e-004 9.263e-005 -3.460e-004 2.521e-005 -
2.033e-005 -4.554e-005 0.000e+000 3.533e-005 3.533e-005 elocal
157 -0.263 -3.020 -4.385 3.374e-004 5.103e-005 -2.864e-004 3.006e-005 -
6.748e-006 -3.681e-005 0.000e+000 6.832e-005 6.832e-005 elocal
158 -0.315 -3.412 -4.072 5.033e-004 -3.321e-004 -8.354e-004 9.579e-005 -
6.209e-005 -1.579e-004 0.000e+000 2.746e-005 2.746e-005 elocal
159 -0.763 -4.020 -4.385 3.574e-004 9.451e-005 -2.629e-004 1.066e-004 -
5.706e-005 -4.952e-005 0.000e+000 5.368e-005 5.368e-005 elocal
160 -0.815 -4.412 -4.072 4.239e-004 -3.032e-004 -7.271e-004 1.226e-004 -
6.505e-005 -1.877e-004 0.000e+000 2.906e-005 2.906e-005 elocal
161 -1.263 -5.020 -4.385 2.706e-004 3.079e-005 -2.398e-004 1.018e-004 -
5.264e-005 -4.917e-005 0.000e+000 5.686e-005 5.686e-005 elocal
162 -1.315 -5.412 -4.072 2.889e-004 3.000e-005 -2.589e-004 9.622e-005 -
4.206e-005 -5.415e-005 0.000e+000 3.678e-005 3.678e-005 elocal

OBJECT: brf
ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT	X1C	X2C	X3C	B1	U1(+)	U1(-)	B2
U2(+)	U2(-)				Coord Sys		
1	0.772	4.833	-0.627 2.415e-004 2.929e-004 5.136e-005 -2.143e-005 -				
4.186e-005	-2.044e-005	0.000e+000	-2.255e-004 -2.255e-004 elocal				
2	0.886	4.667	-0.313 3.332e-004 3.395e-004 6.340e-006 -9.576e-006 -				
2.980e-005	-2.023e-005	0.000e+000	-2.887e-004 -2.887e-004 elocal				
3	0.722	4.183	-0.627 4.539e-004 3.941e-004 -5.978e-005 4.334e-006 -				
5.876e-005	-6.309e-005	0.000e+000	-2.635e-004 -2.635e-004 elocal				
4	0.786	3.849	-0.313 5.218e-004 4.139e-004 -1.079e-004 3.034e-005 -				
4.779e-005	-7.813e-005	0.000e+000	-3.326e-004 -3.326e-004 elocal				
5	0.575	3.199	-0.627 5.957e-004 4.445e-004 -1.512e-004 1.628e-005 -				
5.136e-005	-6.764e-005	0.000e+000	-3.183e-004 -3.183e-004 elocal				
6	0.643	2.849	-0.313 6.404e-004 4.557e-004 -1.847e-004 3.339e-005 -				
4.629e-005	-7.968e-005	0.000e+000	-3.815e-004 -3.815e-004 elocal				
7	0.435	2.199	-0.627 6.718e-004 4.702e-004 -2.016e-004 2.453e-005 -				
4.804e-005	-7.257e-005	0.000e+000	-3.546e-004 -3.546e-004 elocal				
8	0.503	1.849	-0.313 7.019e-004 4.743e-004 -2.276e-004 3.289e-005 -				
4.723e-005	-8.012e-005	0.000e+000	-4.126e-004 -4.126e-004 elocal				
9	0.319	1.410	-0.627 7.000e-004 4.844e-004 -2.155e-004 3.917e-005 -				
5.497e-005	-9.414e-005	0.000e+000	-3.741e-004 -3.741e-004 elocal				
10	0.409	1.227	-0.313 7.138e-004 4.676e-004 -2.462e-004 2.626e-005 -				
5.048e-005	-7.675e-005	0.000e+000	-4.456e-004 -4.456e-004 elocal				
11	0.109	0.791	-0.627 6.990e-004 4.311e-004 -2.678e-004 1.050e-004 -				
1.166e-004	-2.215e-004	0.000e+000	-3.441e-004 -3.441e-004 elocal				
12	0.059	0.401	-0.313 7.112e-004 3.919e-004 -3.193e-004 1.068e-004 -				
1.547e-004	-2.614e-004	0.000e+000	-3.823e-004 -3.823e-004 elocal				

125 0.079 -3.194 -3.446 6.184e-004 -3.928e-004 -1.011e-003 8.806e-005 -
8.204e-005 -1.701e-004 0.000e+000 -2.676e-005 -2.676e-005 elocal
126 0.027 -3.586 -3.132 6.783e-004 -4.075e-004 -1.086e-003 1.046e-004 -
9.115e-005 -1.957e-004 0.000e+000 -6.061e-005 -6.061e-005 elocal
127 -0.421 -4.194 -3.446 5.571e-004 1.958e-004 -3.613e-004 1.180e-004 -
3.575e-005 -8.225e-005 0.000e+000 -2.118e-005 -2.118e-005 elocal
128 -0.473 -4.586 -3.132 5.652e-004 1.890e-004 -3.762e-004 1.131e-004 -
2.461e-005 -8.851e-005 0.000e+000 -4.964e-005 -4.964e-005 elocal
129 -0.921 -5.194 -3.446 4.018e-004 8.865e-005 -3.132e-004 1.073e-004 -
3.229e-005 -7.504e-005 0.000e+000 -1.038e-005 -1.038e-005 elocal
130 -0.973 -5.586 -3.132 3.658e-004 5.802e-005 -3.078e-004 8.320e-005 -
1.090e-005 -7.230e-005 0.000e+000 -3.269e-005 -3.269e-005 elocal
131 0.854 8.943 -4.385 2.124e-004 9.150e-005 -1.209e-004 -5.741e-005 -
2.992e-005 2.750e-005 0.000e+000 3.391e-005 3.391e-005 elocal
132 1.018 8.625 -4.072 2.959e-004 -1.620e-004 -4.579e-004 -6.748e-005 -
3.134e-005 9.882e-005 0.000e+000 2.480e-005 2.480e-005 elocal
133 1.004 7.943 -4.385 2.993e-004 1.350e-004 -1.643e-004 -7.141e-005 -
3.807e-005 3.334e-005 0.000e+000 4.382e-005 4.382e-005 elocal
134 1.168 7.625 -4.072 3.896e-004 -2.087e-004 -5.983e-004 -7.742e-005 -
3.499e-005 1.124e-004 0.000e+000 2.799e-005 2.799e-005 elocal
135 1.111 6.943 -4.385 3.473e-004 1.567e-004 -1.906e-004 -7.034e-005 -
3.804e-005 3.229e-005 0.000e+000 4.825e-005 4.825e-005 elocal
136 1.318 6.625 -4.072 4.451e-004 2.058e-004 -2.393e-004 -7.306e-005 -
4.076e-005 5.230e-005 0.000e+000 2.764e-005 2.764e-005 elocal
137 1.304 5.943 -4.385 3.778e-004 1.641e-004 -2.138e-004 -5.952e-005 -
3.259e-005 2.693e-005 0.000e+000 5.071e-005 5.071e-005 elocal
138 1.468 5.625 -4.072 4.820e-004 2.169e-004 -2.651e-004 -5.670e-005 -
3.072e-005 2.598e-005 0.000e+000 2.614e-005 2.614e-005 elocal
139 1.347 5.123 -4.385 4.099e-004 1.623e-004 -2.476e-004 3.436e-005 -
3.808e-005 3.726e-006 0.000e+000 4.976e-005 4.976e-005 elocal
140 1.405 4.950 -4.072 4.767e-004 -2.820e-004 -7.588e-004 3.419e-005 -
5.808e-006 -4.000e-005 0.000e+000 2.540e-005 2.540e-005 elocal
141 1.181 4.448 -4.385 3.845e-004 1.305e-004 -2.540e-004 1.480e-005 -
1.994e-005 5.136e-006 0.000e+000 6.002e-005 6.002e-005 elocal
142 1.241 4.095 -4.072 4.808e-004 -3.133e-004 -7.941e-004 1.956e-005 -
4.055e-006 -2.361e-005 0.000e+000 3.529e-005 3.529e-005 elocal
143 1.017 3.448 -4.385 3.792e-004 9.943e-005 -2.797e-004 1.792e-005 -
1.582e-005 -2.099e-006 0.000e+000 6.791e-005 6.791e-005 elocal
144 1.075 3.095 -4.072 4.729e-004 1.351e-004 -3.377e-004 2.169e-005 -
1.102e-005 -1.067e-005 0.000e+000 3.844e-005 3.844e-005 elocal
145 0.821 2.500 -4.385 3.758e-004 7.388e-005 -3.019e-004 3.667e-005 -
2.404e-005 -1.264e-005 0.000e+000 7.291e-005 7.291e-005 elocal
146 0.851 2.189 -4.072 4.608e-004 1.051e-004 -3.556e-004 3.997e-005 -
1.555e-005 -2.442e-005 0.000e+000 4.201e-005 4.201e-005 elocal
147 0.571 1.594 -4.385 3.652e-004 4.895e-005 -3.163e-004 2.572e-005 -
9.074e-006 -1.665e-005 0.000e+000 7.780e-005 7.780e-005 elocal
148 0.601 1.231 -4.072 4.550e-004 8.154e-005 -3.734e-004 3.099e-005 -
3.351e-006 -2.764e-005 0.000e+000 4.448e-005 4.448e-005 elocal
149 0.321 0.594 -4.385 3.587e-004 3.041e-005 -3.283e-004 2.388e-005 -
2.417e-006 -2.146e-005 0.000e+000 8.197e-005 8.197e-005 elocal
150 0.351 0.231 -4.072 4.460e-004 6.190e-005 -3.841e-004 2.755e-005 -
5.078e-006 -3.263e-005 0.000e+000 4.941e-005 4.941e-005 elocal
151 0.154 -0.315 -4.385 3.566e-004 1.986e-005 -3.368e-004 -2.384e-005 -
3.777e-005 -1.393e-005 0.000e+000 7.927e-005 7.927e-005 elocal
152 0.268 -0.540 -4.072 4.241e-004 -3.758e-004 -7.999e-004 -2.964e-005 -
1.256e-005 1.708e-005 0.000e+000 3.916e-005 3.916e-005 elocal

13 -0.218 0.071 -0.627 6.879e-004 3.640e-004 -3.239e-004 5.013e-007 -
2.583e-005 -2.633e-005 0.000e+000 -3.916e-004 -3.916e-004 elocal
14 -0.218 -0.243 -0.627 6.640e-004 3.493e-004 -3.147e-004 2.020e-005 -
1.686e-005 -3.706e-005 0.000e+000 -3.810e-004 -3.810e-004 elocal
15 -0.104 -0.497 -0.313 6.627e-004 3.398e-004 -3.229e-004 2.948e-005 -
1.710e-005 -4.658e-005 0.000e+000 -4.361e-004 -4.361e-004 elocal
16 -0.218 -0.839 -0.627 5.963e-004 3.150e-004 -2.812e-004 5.258e-005 -
3.789e-006 -5.637e-005 0.000e+000 -3.810e-004 -3.810e-004 elocal
17 -0.055 -1.136 -0.627 5.397e-004 2.930e-004 -2.467e-004 -8.247e-005 -
1.497e-004 2.322e-004 0.000e+000 -3.196e-004 -3.196e-004 elocal
18 0.223 -1.256 -0.313 5.095e-004 2.996e-004 -2.099e-004 -8.530e-005 -
1.750e-004 2.603e-004 0.000e+000 -3.641e-004 -3.641e-004 elocal
19 0.439 -1.761 -0.627 3.680e-004 3.037e-004 -6.435e-005 -3.820e-005 -
1.469e-004 1.851e-004 0.000e+000 -3.157e-004 -3.157e-004 elocal
20 0.719 -1.881 -0.313 3.031e-004 -6.831e-006 -3.100e-004 -3.931e-005 -
2.127e-004 2.521e-004 0.000e+000 -3.409e-004 -3.409e-004 elocal
21 0.430 4.833 -1.566 2.214e-004 2.728e-004 5.142e-005 -2.834e-005 -
4.931e-005 -2.097e-005 0.000e+000 -1.106e-004 -1.106e-004 elocal
22 0.544 4.667 -1.253 2.913e-004 3.151e-004 2.377e-005 -3.062e-005 -
5.138e-005 -2.075e-005 0.000e+000 -1.621e-004 -1.621e-004 elocal
23 0.38

JCE

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41 0.097 -2.028 -1.566 3.515e-004 3.011e-004 -5.042e-005 -3.517e-005
6.408e-005 9.925e-005 0.000e+000 -2.146e-004 -2.146e-004 elocal
42 0.377 -2.148 -1.253 2.848e-004 1.849e-005 -2.664e-004 -1.608e-005
1.041e-004 1.202e-004 0.000e+000 -2.505e-004 -2.505e-004 elocal
43 0.088 4.833 -2.506 2.091e-004 2.400e-004 3.096e-005 -2.371e-005 -
4.110e-005 -1.739e-005 0.000e+000 -1.371e-005 -1.371e-005 elocal
44 0.202 4.667 -2.192 2.200e-004 2.827e-004 1.067e-005 -2.692e-005 -
4.526e-005 -1.834e-005 0.000e+000 -5.501e-005 -5.501e-005 elocal
45 0.038 4.215 -2.506 3.660e-004 3.114e-004 -5.462e-005 -1.094e-005 -
2.928e-005 -1.834e-005 0.000e+000 -2.059e-005 -2.059e-005 elocal
46 0.102 3.913 -2.192 4.157e-004 3.408e-004 -7.492e-005 -9.225e-006 -
3.571e-005 -2.648e-005 0.000e+000 -6.989e-005 -6.989e-005 elocal
47 -0.109 3.295 -2.506 4.791e-004 3.536e-004 -1.254e-004 -8.321e-006 -
2.762e-005 -1.930e-005 0.000e+000 -3.757e-005 -3.757e-005 elocal
48 -0.041 2.945 -2.192 5.225e-004 3.825e-004 -1.401e-004 -1.835e-006 -
3.023e-005 -2.839e-005 0.000e+000 -9.151e-005 -9.151e-005 elocal
49 -0.272 2.262 -2.506 5.499e-004 3.765e-004 -1.735e-004 1.822e-005 -
1.276e-005 -3.099e-005 0.000e+000 -4.960e-005 -4.960e-005 elocal
50 -0.205 1.913 -2.192 5.930e-004 4.015e-004 -1.915e-004 1.529e-005 -
1.968e-005 -3.498e-005 0.000e+000 -1.134e-004 -1.134e-004 elocal
51 -0.275 1.502 -2.192 5.943e-004 4.026e-004 -1.917e-004 5.701e-005 -
8.565e-006 -6.555e-005 0.000e+000 -1.154e-004 -1.154e-004 elocal
52 -0.575 1.155 -2.506 5.756e-004 3.540e-004 -2.216e-004 1.010e-004
1.881e-005 -8.224e-005 0.000e+000 -4.862e-005 -4.862e-005 elocal
53 -0.625 0.765 -2.192 6.015e-004 3.451e-004 -2.564e-004 1.099e-004 -
1.778e-006 -1.117e-004 0.000e+000 -9.272e-005 -9.272e-005 elocal
54 -0.902 0.313 -2.506 5.640e-004 2.861e-004 -2.779e-004 1.410e-005 -
1.585e-005 -2.995e-005 0.000e+000 -5.157e-005 -5.157e-005 elocal
55 -0.788 0.131 -2.192 5.719e-004 2.971e-004 -2.748e-004 2.107e-005 -
1.190e-005 -3.297e-005 0.000e+000 -1.150e-004 -1.150e-004 elocal
56 -0.902 -0.243 -2.506 5.388e-004 2.784e-004 -2.604e-004 3.028e-005 -
6.486e-006 -3.677e-005 0.000e+000 -5.648e-005 -5.648e-005 elocal
57 -0.788 -0.497 -2.192 5.510e-004 2.896e-004 -2.614e-004 3.867e-005 -
2.869e-006 -4.154e-005 0.000e+000 -1.152e-004 -1.152e-004 elocal
58 -0.902 -1.017 -2.506 4.977e-004 2.546e-004 -2.431e-004 4.816e-005
2.920e-006 -4.524e-005 0.000e+000 -6.332e-005 -6.332e-005 elocal
59 -0.788 -1.195 -2.192 4.991e-004 2.567e-004 -2.424e-004 5.623e-005
6.351e-006 -4.988e-005 0.000e+000 -1.231e-004 -1.231e-004 elocal
60 -0.739 -1.671 -2.506 4.606e-004 2.458e-004 -2.148e-004 -6.388e-005 -
7.971e-006 5.591e-005 0.000e+000 -7.507e-005 -7.507e-005 elocal
61 -0.461 -1.790 -2.192 4.481e-004 2.751e-004 -1.731e-004 -5.978e-005
1.321e-005 7.300e-005 0.000e+000 -1.325e-004 -1.325e-004 elocal
62 -0.245 -2.296 -2.506 3.461e-004 2.786e-004 -6.748e-005 -4.786e-005 -
9.622e-006 3.823e-005 0.000e+000 -1.106e-004 -1.106e-004 elocal
63 0.035 -2.415 -2.192 2.925e-004 2.949e-004 2.379e-006 -3.922e-005
1.140e-005 5.062e-005 0.000e+000 -1.602e-004 -1.602e-004 elocal
64 -0.254 4.833 -3.446 1.832e-004 1.019e-005 -1.730e-004 -1.797e-005 -
1.202e-005 5.955e-006 0.000e+000 6.209e-005 6.209e-005 elocal
65 -0.140 4.667 -3.132 2.436e-004 -8.396e-006 -2.519e-004 -1.956e-005 -
1.382e-005 5.737e-006 0.000e+000 3.328e-005 3.328e-005 elocal
66 -0.304 4.231 -3.446 3.083e-004 -6.053e-005 -3.688e-004 -3.676e-006 -
1.266e-006 2.410e-006 0.000e+000 6.522e-005 6.522e-005 elocal
67 -0.240 3.945 -3.132 3.617e-004 2.809e-004 -8.078e-005 -1.178e-006 -
1.051e-005 -9.327e-006 0.000e+000 3.140e-005 3.140e-005 elocal
68 -0.451 3.343 -3.446 3.935e-004 -1.157e-004 -5.091e-004 -1.482e-006 -
6.422e-006 -4.940e-006 0.000e+000 6.393e-005 6.393e-005 elocal
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OBJECT: scf
ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT	X1C	X2C	X3C	B1	U1(+)	U1(-)	B2
U2(+)	U2(-)	B3	U3(+)	U3(-)	Coord Sys		
1	-2.928	5.667	-0.627 4.652e-004	2.852e-004	-1.800e-004	-9.573e-006	
3.651e-005	4.608e-005	0.000e+000	-6.495e-005	-6.495e-005	elocal		
2	-2.814	5.333	-0.313 5.878e-004	3.519e-004	-2.359e-004	2.607e-005	
7.236e-005	4.628e-005	0.000e+000	-1.089e-004	-1.089e-004	elocal		
3	-2.928	4.667	-0.627 7.335e-004	4.471e-004	-2.864e-004	7.811e-006	
4.902e-005	4.121e-005	0.000e+000	-1.179e-004	-1.179e-004	elocal		
4	-2.814	4.333	-0.313 8.100e-004	4.865e-004	-3.235e-004	2.872e-005	
7.423e-005	4.551e-005	0.000e+000	-1.649e-004	-1.649e-004	elocal		
5	-2.928	3.667	-0.627 8.744e-004	5.438e-004	-3.306e-004	1.541e-005	
5.285e-005	3.744e-005	0.000e+000	-2.034e-004	-2.034e-004	elocal		
6	-2.814	3.333	-0.313 9.324e-004	5.737e-004	-3.586e-004	2.966e-005	
7.366e-005	4.401e-005	0.000e+000	-1.649e-004	-1.649e-004	elocal		
7	-3.028	2.695	-0.627 9.416e-004	5.627e-004	-3.589e-004	1.265e-004	
5.934e-005	-6.718e-005	0.000e+000	-1.821e-004	-1.821e-004	elocal		
8	-3.014	2.362	-0.313 9.882e-004	5.727e-004	-4.155e-004	1.302e-004	
5.242e-005	-7.778e-005	0.000e+000	-2.214e-004	-2.214e-004	elocal		
9	-3.228	1.890	-0.627 9.942e-004	3.995e-004	-1.394e-003	1.799e-005	
3.129e-005	1.330e-005	0.000e+000	-1.895e-004	-1.895e-004	elocal		
10	-3.114	1.695	-0.313 1.028e-003	4.207e-004	-1.448e-003	2.257e-005	
3.990e-005	1.733e-005	0.000e+000	-2.559e-004	-2.559e-004	elocal		
11	-3.228	1.528	-0.627 1.022e-003	3.913e-004	-1.414e-003	2.020e-005	
3.116e-005	1.096e-005	0.000e+000	-2.102e-004	-2.102e-004	elocal		
12	-3.228	1.167	-0.627 1.026e-003	4.016e-004	-1.427e-003	1.848e-005	
3.127e-005	1.280e-005	0.000e+000	-1.954e-004	-1.954e-004	elocal		
13	-3.114	0.933	-0.313 1.069e-003	4.246e-004	-1.494e-003	2.995e-005	
3.680e-005	6.544e-006	0.000e+000	-2.395e-004	-2.395e-004	elocal		
14	-3.228	0.167	-0.627 1.058e-003	3.926e-004	-1.451e-003	2.346e-005	
3.185e-005	0.383e-006	0.000e+000	-2.059e-004	-2.059e-004	elocal		
15	-3.114	-0.167	-0.313 1.096e-003	4.113e-004	-1.507e-003	3.353e-005	
4.032e-005	6.789e-006	0.000e+000	-2.453e-004	-2.453e-004	elocal		

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69 -0.383 2.993 -3.132 4.472e-004 3.124e-004 -1.348e-004 3.806e-006 -
9.679e-006 -1.349e-005 0.000e+000 2.596e-005 2.596e-005 elocal
70 -0.614 2.354 -3.446 4.480e-004 -1.555e-004 -6.035e-004 2.407e-005 -
1.160e-005 -3.567e-005 0.000e+000 6.398e-005 6.398e-005 elocal
71 -0.570 1.972 -3.132 5.043e-004 -1.766e-004 -6.809e-004 2.777e-005 -
2.087e-005 -4.863e-005 0.000e+000 2.239e-005 2.239e-005 elocal
72 -0.917 1.337 -3.446 4.656e-004 -1.907e-004 -6.564e-004 8.493e-005 -
2.414e-005 -1.091e-004 0.000e+000 6.251e-005 6.251e-005 elocal
73 -0.967 0.946 -3.132 5.088e-004 2.805e-004 -2.283e-004 9.623e-005
4.719e-005 -4.905e-005 0.000e+000 2.999e-005 2.999e-005 elocal
74 -1.244 0.434 -3.446 4.512e-004 2.171e-004 -2.341e-004 1.331e-005 -
1.504e-005 -2.835e-005 0.000e+000 6.735e-005 6.735e-005 elocal
75 -1.130 0.192 -3.132 4.807e-004 2.375e-004 -2.433e-004 1.999e-005 -
1.131e-005 -3.129e-005 0.000e+000 2.130e-005 2.130e-005 elocal
76 -1.244 -0.243 -3.446 4.358e-004 2.124e-004 -2.234e-004 2.537e-005 -
7.276e-006 -3.265e-005 0.000e+000 6.329e-005 6.329e-005 elocal
77 -1.130 -0.497 -3.132 4.660e-004 2.319e-004 -2.341e-004 3.346e-005 -
3.449e-006 -3.691e-005 0.000e+000 1.768e-005 1.768e-005 elocal
78 -1.244 -1.106 -3.446 4.068e-004 1.929e-004 -2.043e-004 3.939e-005
2.075e-006 -3.731e-005 0.000e+000 5.475e-005 5.475e-005 elocal
79 -1.130 -1.374 -3.132 4.326e-004 2.058e-004 -2.268e-004 4.905e-005
6.378e-006 -4.268e-005 0.000e+000 8.128e-006 8.128e-006 elocal
80 -1.081 -1.938 -3.446 3.946e-004 2.043e-004 -2.043e-004 5.990e-005 -5.342e-005 -
1.139e-005 2.404e-005 0.000e+000 2.612e-005 2.612e-005 elocal
81 -0.803 -2.058 -3.132 4.041e-004 -1.768e-004 -5.809e-004 -5.507e-005
5.658e-006 6.073e-005 0.000e+000 -2.449e-005 -2.449e-005 elocal
82 -0.587 -2.563 -3.446 3.236e-004 -9.733e-005 -4.209e-004 -4.716e-005 -
1.998e-005 2.718e-005 0.000e+000 -9.197e-006 -9.197e-006 elocal
83 -0.307 -2.683 -3.132 2.826e-004 -2.689e-005 -3.095e-004 -4.837e-005 -
1.282e-006 4.709e-005 0.000e+000 -6.263e-005 -6.263e-005 elocal
84 -0.596 4.833 -3.485 1.196e-004 1.302e-004 1.057e-005 -1.367e-005 -
1.915e-005 -5.477e-006 0.000e+000 9.637e-005 9.637e-005 elocal
85 -0.482 4.667 -4.072 1.741e-004 1.674e-004 -6.778e-006 -1.303e-005 -
2.169e-005 -6.63e-006 0.000e+000 8.831e-005 8.831e-005 elocal
86 -0.646 4.247 -4.385 1.898e-004 1.570e-004 -3.281e-005 -4.031e-007
1.152e-005 1.193e-005 0.000e+000 1.068e-004 1.068e-004 elocal
87 -0.582 3.977 -4.072 2.542e-004 1.960e-004 -5.817e-005 4.892e-006
8.941e-006 4.049e-006 0.000e+000 9.604e-005 9.604e-005 elocal
88 -0.793 3.391 -4.385 2.336e-004 1.686e-004 -6.503e-005 2.107e-006
4.438e-006 2.331e-006 0.000e+000 1.168e-004 1.168e-004 elocal
89 -0.725 3.041 -4.072 3.115e-004 2.134e-004 -9.819e-005 1.055e-005
5.609e-006 -4.945e-006 0.000e+000 1.034e-004 1.034e-004 elocal
90 -0.956 2.447 -4.385 2.667e-004 1.707e-004 -9.603e-005 2.382e-005
2.987e-005 6.052e-006 0.000e+000 1.245e-004 1.245e-004 elocal
91 -0.912 2.109 -4.072 3.500e-004 2.220e-004 -1.280e-004 3.155e-005
2.668e-005 -4.875e-006 0.000e+000 1.074e-004 1.074e-004 elocal
92 -1.259 1.518 -4.385 2.756e-004 1.593e-004 -1.163e-004 5.873e-005
7.593e-005 1.719e-005 0.000e+000 1.226e-004 1.226e-004 elocal
93 -1.309 1.128 -4.072 3.516e-004 1.630e-004 -5.146e-004 7.358e-005
3.495e-007 -7.324e-005 0.000e+000 1.095e-004 1.095e-004 elocal
94 -1.586 0.555 -4.385 2.621e-004 1.166e-004 -1.455e-004 9.452e-006 -
1.455e-005 -2.401e-005 0.000e+000 1.317e-004 1.317e-004 elocal
95 -1.472 0.252 -4.072 3.279e-004 1.514e-004 -1.765e-004 1.713e-005 -
1.098e-005 -2.811e-005 0.000e+000 1.112e-004 1.112e-004 elocal
96 -1.586 -0.243 -4.385 2.605e-004 1.131e-004 -1.474e-004 1.496e-005 -
8.418e-006 -2.338e-005 0.000e+000 1.297e-004 1.297e-004 elocal
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16 -3.228 -0.667 -0.627 1.075e-003 -3.636e-004 -1.439e-003 1.968e-005
4.306e-005 2.338e-005 0.000e+000 -2.155e-004 -2.155e-004 elocal
17 -3.114 -0.833 -0.313 1.091e-003 -3.747e-004 -1.466e-003 1.705e-005
5.983e-005 4.277e-005 0.000e+000 -2.760e-004 -2.760e-004 elocal
18 -3.311 -1.305 -0.627 1.060e-003 -3.460e-004 -1.406e-003 8.516e-005 -
1.954e-005 -1.047e-004 0.000e+000 -2.192e-004 -2.192e-004 elocal
19 -3.281 -1.638 -0.313 1.081e-003 3.175e-004 -6.376e-004 6.041e-005
7.158e-005 1.117e-005 0.000e+000 -2.662e-004 -2.662e-004 elocal
20 -3.561 -2.277 -0.627 1.002e-003 3.715e-004 -2.701e-004 5.001e-005
7.193e-005 2.192e-005 0.000e+000 -2.287e-004 -2.287e-004 elocal
21 -3.531 -2.638 -0.313 1.025e-003 3.601e-004 -2.646e-004 4.324e-005
9.117e-005 4.793e-005 0.000e+000 -2.764e-004 -2.764e-004 elocal
22 -3.895 -3.032 -0.627 9.946e-004 3.199e-004 -1.618e-004 3.037e-004
5.909e-005 -2.087e-004 0.000e+000 -1.966e-004 -1.966e-004 elocal
23 -3.947 -3.227 -0.313 9.393e-004 -3.016e-004 -1.241e-003 2.185e-004 -
1.626e-004 -3.811e-004 0.000e+000 -2.939e-004 -2.939e-004 elocal
24 -4.395 -3.454 -0.627 9.210e-004 -3.084e-004 -1.229e-003 2.088e-004 -
1.407e-004 -3.494e-004 0.000e+000 -2.180e-004 -2.180e-004 elocal
25 -4.447 -3.727 -0.313 9.399e-004 -3.533e-004 -1.293e-003 2.081e-004 -
1.781e-004 -3.861e-004 0.000e+000 -2.552e-004 -2.552e-004 elocal
26 -4.895 -3.954 -0.627 9.085e-004 5.522e-004 -3.563e-004 1.947e-004
3.997e-005 -1.547e-004 0.000e+000 -1.841e-004 -1.841e-004 elocal
27 -4.947 -4.227 -0.313 9.180e-004 5.193e-004 -3.987e-004 1.871e-004 -
5.374e-006 -1.925e-004 0.000e+000 -2.181e-004 -2.181e-004 elocal
28 -5.228 -4.359 -0.627 8.994e-004 5.378e-004 -3.616e-004 -1.246e-004 -
2.069e-005 1.039e-004 0.000e+000 -1.834e-004 -1.834e-004 elocal
29 -5.275 -4.597 -0.627 8.957e-004 5.384e-004 -3.573e-004 -1.080e-005 -
5.006e-006 5.797e-006 0.000e+000 -1.830e-004 -1.830e-004 elocal
30 -5.207 -4.798 -0.313 9.130e-004 5.403e-004 -3.727e-004 2.887e-006
3.311e-006 4.234e-007 0.000e+000 -2.411e-004 -2.411e-004 elocal
31 -5.465 -5.263 -0.627 8.575e-004 5.167e-004 -3.408e-004 2.329e-005
8.090e-006 -1.519e-005 0.000e+000 -1.658e-004 -1.658e-004 elocal
32 -5.447 -5.632 -0.313 8.691e-004 -3.565e-004 -1.226e-003 2.636e-005 -
2.323e-005 -4.959e-005 0.000e+000 1.915e-004 -1.915e-004 elocal
33 -5.751 -6.263 -0.627 7.483e-004 -2.970e-004 -1.045e-003 3.706e-005 -
3.047e-005 -6.753e
```


Joe

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44 -3.356 2.419 -1.253 8.805e-004 -3.380e-004 -1.219e-003 1.068e-004 -
4.523e-005 -1.520e-004 0.000e+000 -1.058e-004 -1.058e-004 elocal
45 -3.570 1.976 -1.566 8.700e-004 5.345e-004 -3.356e-004 7.084e-007
1.572e-005 1.501e-005 0.000e+000 -4.655e-005 -4.655e-005 elocal
46 -3.456 1.780 -1.253 9.103e-004 5.613e-004 -3.491e-004 3.997e-006
2.566e-005 2.166e-005 0.000e+000 -1.121e-004 -1.121e-004 elocal
47 -3.570 1.585 -1.566 8.951e-004 5.592e-004 -3.359e-004 1.715e-006
1.704e-005 1.532e-005 0.000e+000 -5.092e-005 -5.092e-005 elocal
48 -3.456 1.528 -1.253 9.047e-004 5.680e-004 -3.367e-004 1.113e-006
2.451e-005 2.340e-005 0.000e+000 -1.158e-004 -1.158e-004 elocal
49 -3.570 1.167 -1.566 8.992e-004 5.686e-004 -3.306e-004 -1.076e-006
1.660e-005 1.767e-005 0.000e+000 -5.717e-005 -5.717e-005 elocal
50 -3.456 0.833 -1.253 9.549e-004 6.053e-004 -3.496e-004 7.011e-006
2.910e-005 2.209e-005 0.000e+000 -1.166e-004 -1.166e-004 elocal
51 -3.570 0.167 -1.566 9.383e-004 6.118e-004 -3.266e-004 -3.101e-007
2.056e-005 2.087e-005 0.000e+000 -6.654e-005 -6.654e-005 elocal
52 -3.456 -0.167 -1.253 9.891e-004 -1.696e-004 -1.159e-003 7.067e-006
3.938e-005 3.231e-005 0.000e+000 -1.257e-004 -1.257e-004 elocal
53 -3.570 -0.667 -1.566 9.631e-004 6.532e-004 -3.100e-004 -2.118e-007
2.571e-005 2.592e-005 0.000e+000 -6.885e-005 -6.885e-005 elocal
54 -3.456 -0.833 -1.253 9.917e-004 6.784e-004 -3.133e-004 7.938e-007
3.595e-005 3.515e-005 0.000e+000 -1.382e-004 -1.382e-004 elocal
55 -3.653 -1.276 -1.566 9.413e-004 -2.827e-004 -1.224e-003 8.737e-005 -
1.460e-005 -1.020e-004 0.000e+000 -7.549e-005 -7.549e-005 elocal
56 -3.623 -1.581 -1.253 9.741e-004 6.840e-004 -2.901e-004 7.615e-005
6.815e-005 -7.998e-006 0.000e+000 -1.381e-004 -1.381e-004 elocal
57 -3.903 -2.191 -1.566 8.727e-004 -1.975e-004 -1.070e-003 4.944e-005
1.333e-005 -3.611e-005 0.000e+000 -7.201e-005 -7.201e-005 elocal
58 -3.873 -2.553 -1.253 9.082e-004 -1.956e-004 -1.104e-003 4.247e-005
2.305e-005 -1.942e-005 0.000e+000 -1.296e-004 -1.296e-004 elocal
59 -4.237 -2.869 -1.566 7.525e-004 -1.213e-004 -8.738e-004 3.486e-004 -
1.428e-004 -4.914e-004 0.000e+000 -6.330e-005 -6.330e-005 elocal
60 -4.289 -2.986 -1.253 8.167e-004 -2.050e-004 -1.022e-003 2.870e-004 -
1.328e-004 -4.198e-004 0.000e+000 -1.673e-004 -1.673e-004 elocal
61 -4.737 -3.135 -1.566 8.200e-004 -2.569e-004 -1.077e-003 1.846e-004 -
5.897e-005 -2.435e-004 0.000e+000 -8.689e-005 -8.689e-005 elocal
62 -4.789 -3.408 -1.253 8.505e-004 5.652e-004 -2.853e-004 1.880e-004
1.002e-004 -8.778e-005 0.000e+000 -1.346e-004 -1.346e-004 elocal
63 -5.237 -3.635 -1.566 8.136e-004 -3.032e-004 -1.117e-003 1.743e-004 -
7.368e-005 -2.480e-004 0.000e+000 -6.500e-005 -6.500e-005 elocal
64 -5.289 -3.908 -1.253 8.358e-004 5.045e-004 -3.315e-004 1.702e-004
6.879e-005 -1.004e-004 0.000e+000 -1.083e-004 -1.083e-004 elocal
65 -5.570 -4.111 -1.566 7.940e-004 4.745e-004 -3.195e-004 -1.075e-004 -
4.000e-005 6.746e-005 0.000e+000 -4.533e-005 -4.533e-005 elocal
66 -5.456 -4.289 -1.253 8.049e-004 4.919e-004 -3.131e-004 -9.750e-005
2.561e-005 7.189e-005 0.000e+000 -1.082e-004 -1.082e-004 elocal
67 -5.617 -4.492 -1.566 7.823e-004 4.840e-004 -2.983e-004 -2.508e-006
6.406e-006 8.914e-006 0.000e+000 -5.170e-005 -5.170e-005 elocal
68 -5.549 -4.694 -1.253 8.032e-004 3.059e-004 -1.109e-003 8.338e-006
1.419e-006 -6.920e-006 0.000e+000 -1.078e-004 -1.078e-004 elocal
69 -5.807 -5.159 -1.566 7.458e-004 -2.808e-004 -1.027e-003 2.723e-005 -
4.764e-006 -3.199e-005 0.000e+000 -4.876e-005 -4.876e-005 elocal
70 -5.789 -5.527 -1.253 7.683e-004 -2.926e-004 -1.061e-003 3.650e-005 -
1.374e-005 -5.024e-005 0.000e+000 -8.813e-005 -8.813e-005 elocal
71 -6.093 -6.159 -1.566 6.549e-004 4.074e-004 -2.475e-004 4.527e-005
3.155e-005 -1.372e-005 0.000e+000 -3.577e-005 -3.577e-005 elocal

72 -6.073 -6.527 -1.253 6.504e-004 -2.498e-004 -9.002e-004 4.849e-005 -
2.160e-005 -7.010e-005 0.000e+000 -6.372e-005 -6.372e-005 elocal
73 -6.377 -7.159 -1.566 4.732e-004 2.941e-004 -1.791e-004 5.102e-005
3.358e-005 -1.744e-005 0.000e+000 -1.700e-005 -1.700e-005 elocal
74 -6.359 -7.527 -1.253 4.185e-004 -1.610e-004 -5.795e-004 4.193e-005 -
2.024e-005 -6.217e-005 0.000e+000 -2.999e-005 -2.999e-005 elocal
75 -3.612 5.667 -2.506 3.436e-004 2.316e-004 -1.119e-004 -1.449e-005 -
1.498e-005 -4.929e-007 0.000e+000 3.911e-005 3.911e-005 elocal
76 -3.498 5.333 -2.192 4.283e-004 2.811e-004 -1.472e-004 -1.073e-005 -
8.036e-006 2.698e-006 0.000e+000 1.953e-005 1.953e-005 elocal
77 -3.612 4.667 -2.506 5.265e-004 3.452e-004 -1.812e-004 -1.246e-005 -
1.440e-005 -1.940e-006 0.000e+000 4.166e-005 4.166e-005 elocal
78 -3.498 4.333 -2.192 5.957e-004 3.894e-004 -2.078e-004 -6.674e-006 -
5.341e-006 1.333e-006 0.000e+000 1.396e-005 1.396e-005 elocal
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4.192e-007 1.196e-006 0.000e+000 9.318e-006 9.318e-006 elocal
81 -3.712 2.752 -2.506 6.835e-004 -2.356e-004 -9.191e-004 8.277e-005 -
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2.097e-005 -1.067e-004 0.000e+000 3.587e-006 3.587e-006 elocal
83 -3.912 2.061 -2.506 7.219e-004 4.560e-004 -2.659e-004 -9.606e-006 -
7.980e-006 1.625e-006 0.000e+000 4.885e-005 4.885e-005 elocal
84 -3.798 1.866 -2.192 7.661e-004 4.840e-004 -2.821e-004 -7.045e-006 -
7.740e-007 6.271e-006 0.000e+000 3.647e-006 3.647e-006 elocal
85 -3.912 1.642 -2.506 7.429e-004 4.767e-004 -2.662e-004 -9.129e-006 -
7.367e-006 1.762e-006 0.000e+000 4.877e-005 4.877e-005 elocal
86 -3.798 1.557 -2.192 7.622e-004 4.897e-004 -2.724e-004 -9.697e-006 -
1.818e-006 7.879e-006 0.000e+000 1.163e-006 1.163e-006 elocal
87 -3.912 1.167 -2.506 7.487e-004 4.881e-004 -2.607e-004 -1.264e-005 -
8.128e-006 4.510e-006 0.000e+000 4.276e-005 4.276e-005 elocal
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1.499e-006 6.355e-006 0.000e+000 1.224e-006 1.224e-006 elocal
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5.092e-006 8.531e-006 0.000e+000 3.773e-005 3.773e-005 elocal
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1.427e-005 1.612e-005 0.000e+000 -1.492e-005 -1.492e-005 elocal
93 -3.995 -1.248 -2.506 7.919e-004 -2.258e-004 -1.018e-003 8.900e-005 -
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94 -3.965 -1.524 -2.192 8.298e-004 5.994e-004 -2.304e-004 8.884e-005
8.777e-005 -1.079e-006 0.000e+000 -1.655e-005 -1.655e-005 elocal
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4.141e-005 2.576e-005 0.000e+000 -8.269e-005 -8.269e-005 elocal
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3.249e-004 -1.015e-004 0.000e+000 -7.937e-005 -7.937e-005 elocal
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1.677e-004 -1.291e-005 0.000e+000 7.884e-006 7.884e-006 elocal
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1.469e-004 -2.818e-005 0.000e+000 -2.814e-005 -2.814e-005 elocal

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1.371e-004 -1.795e-005 0.000e+000 1.914e-005 1.914e-005 elocal
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3.684e-005 -1.876e-004 0.000e+000 -1.321e-005 -1.321e-005 elocal
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4.442e-005 3.781e-005 0.000e+000 4.139e-005 4.139e-005 elocal
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7.553e-005 9.826e-006 0.000e+000 9.716e-005 9.716e-005 elocal
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2.450e-005 1.117e-005 0.000e+000 8.947e-005 8.947e-005 elocal
141 -6.233 -4.485 -3.132 5.443e-004 -1.896

Joe

Joe

156 -4.596 2.231 -4.385 3.318e-004 2.541e-004 -7.765e-005 -1.292e-005 -
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23 -2.870 -6.333 -1.566 7.074e-004 3.093e-004 -3.980e-004 1.113e-004
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 2.017e-005 4.573e-007 0.000e+000 -6.883e-005 -6.883e-005 elocal
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 3.853e-005 2.152e-005 0.000e+000 -3.049e-005 -3.049e-005 elocal
 34 -3.098 -4.667 -2.193 5.858e-004 -3.431e-004 -9.289e-004 3.959e-005 -
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 35 -3.212 -5.333 -2.506 5.941e-004 2.514e-004 -3.427e-004 2.966e-005 -
 4.735e-005 1.769e-005 0.000e+000 -3.594e-005 -3.594e-005 elocal
 36 -3.098 -5.667 -2.193 6.407e-004 -3.650e-004 -1.006e-003 5.319e-005 -
 1.052e-005 -4.267e-005 0.000e+000 -7.900e-005 -7.900e-005 elocal
 37 -3.212 -6.333 -2.506 6.122e-004 2.613e-004 -3.509e-004 4.522e-005 -
 5.414e-005 8.926e-006 0.000e+000 -3.979e-005 -3.979e-005 elocal
 38 -3.098 -6.667 -2.193 6.431e-004 -3.660e-004 -1.009e-003 6.774e-005 -
 7.043e-007 -6.704e-005 0.000e+000 -7.448e-005 -7.448e-005 elocal
 39 -3.212 -7.333 -2.506 5.678e-004 2.399e-004 -3.278e-004 6.218e-005 -
 5.789e-005 -4.487e-006 0.000e+000 -3.690e-005 -3.690e-005 elocal
 40 -3.098 -7.667 -2.193 5.710e-004 -3.286e-004 -8.997e-004 7.585e-005 -
 9.197e-006 -8.505e-005 0.000e+000 -5.990e-005 -5.990e-005 elocal
 41 -3.212 -8.333 -2.506 4.304e-004 1.740e-004 -2.563e-004 6.095e-005 -
 5.082e-005 -1.014e-005 0.000e+000 -2.704e-005 -2.704e-005 elocal
 42 -3.098 -8.667 -2.193 3.837e-004 -2.326e-004 -6.163e-004 5.495e-005 -
 5.603e-006 -6.056e-005 0.000e+000 -3.892e-005 -3.892e-005 elocal
 43 -3.554 -9.333 -3.446 2.207e-004 -1.766e-004 -3.973e-004 -3.356e-005 -
 2.153e-005 5.508e-006 0.000e+000 7.975e-005 7.975e-005 elocal
 44 -3.440 -9.667 -3.132 2.800e-004 -2.088e-004 -4.888e-004 -2.295e-005 -
 4.099e-005 4.704e-005 0.000e+000 4.110e-005 4.110e-005 elocal
 45 -3.554 -10.333 -3.446 3.428e-004 -2.251e-004 -5.678e-004 -2.586e-005 -
 2.683e-005 5.269e-005 0.000e+000 6.708e-005 6.708e-005 elocal
 46 -3.440 -10.667 -3.132 3.984e-004 -2.547e-004 -6.531e-004 -1.391e-005 -
 2.675e-005 4.067e-005 0.000e+000 3.238e-005 3.238e-005 elocal
 47 -3.554 -11.333 -3.446 4.172e-004 -2.557e-004 -6.729e-004 -2.331e-005 -
 2.885e-005 5.216e-005 0.000e+000 6.015e-005 6.015e-005 elocal
 48 -3.440 -11.667 -3.132 4.744e-004 -2.856e-004 -7.621e-004 -1.026e-005 -
 2.749e-005 3.775e-005 0.000e+000 2.439e-005 2.439e-005 elocal
 49 -3.554 -12.333 -3.446 4.658e-004 -2.778e-004 -7.436e-004 -1.902e-005 -
 2.821e-005 4.723e-005 0.000e+000 4.798e-005 4.798e-005 elocal
 50 -3.440 -12.667 -3.132 5.227e-004 -3.065e-004 -8.292e-004 -2.331e-006 -
 2.458e-005 2.691e-005 0.000e+000 1.215e-005 1.215e-005 elocal

OBJECT: irf
 ELT CENTER COORD SYS: global

DISPLACEMENTS:

ELT U2(+)	X1C U2(-)	X2C	X3C	B3	U3(+)	B1	U1(+) U3(-) Coord Sys	U1(-)	B2
1	-2.528	-2.333	-0.626	3.506e-004	-2.978e-004	-6.484e-004	8.950e-005		
6.700e-005	-8.280e-005	0.000e+000	-2.896e-004	-2.896e-004	elocal				
2	-2.414	-2.667	-0.313	4.458e-004	-3.400e-004	-7.858e-004	1.562e-004		
1.582e-005	-1.720e-004	0.000e+000	-3.484e-004	-3.484e-004	elocal				
3	-2.528	-3.333	-0.626	5.692e-004	-3.731e-004	-9.422e-004	1.404e-004		
1.381e-005	-1.542e-004	0.000e+000	-3.042e-004	-3.042e-004	elocal				
4	-2.414	-3.667	-0.313	6.259e-004	-4.037e-004	-1.030e-003	1.849e-004		
3.014e-005	-2.150e-004	0.000e+000	-3.534e-004	-3.534e-004	elocal				
5	-2.528	-4.333	-0.626	6.917e-004	-4.137e-004	-1.105e-003	1.711e-004		
2.783e-005	-1.989e-004	0.000e+000	-3.076e-004	-3.076e-004	elocal				
6	-2.414	-4.667	-0.313	7.316e-004	-4.412e-004	-1.173e-003	1.997e-004		
4.300e-005	-2.427e-004	0.000e+000	-3.408e-004	-3.408e-004	elocal				
7	-2.528	-5.333	-0.626	7.612e-004	-4.392e-004	-1.200e-003	1.802e-004		
3.760e-005	-2.178e-004	0.000e+000	-2.874e-004	-2.874e-004	elocal				
8	-2.414	-5.667	-0.313	7.879e-004	-4.636e-004	-1.252e-003	1.956e-004		
5.117e-005	-2.468e-004	0.000e+000	-3.072e-004	-3.072e-004	elocal				
9	-2.528	-6.333	-0.626	7.752e-004	-4.448e-004	-1.220e-003	1.711e-004		
4.126e-005	-2.124e-004	0.000e+000	-2.482e-004	-2.482e-004	elocal				
10	-2.414	-6.667	-0.313	7.824e-004	-4.588e-004	-1.241e-003	1.702e-004		
4.833e-005	-2.185e-004	0.000e+000	-2.545e-004	-2.545e-004	elocal				
11	-2.528	-7.333	-0.626	7.059e-004	-4.074e-004	-1.113e-003	1.439e-004		
3.621e-005	-1.801e-004	0.000e+000	-1.924e-004	-1.924e-004	elocal				
12	-2.414	-7.667	-0.313	6.836e-004	-4.025e-004	-1.086e-003	1.213e-004		
3.246e-005	-1.537e-004	0.000e+000	-1.877e-004	-1.877e-004	elocal				
13	-2.528	-8.333	-0.626	5.091e-004	-3.048e-004	-8.139e-004	1.006e-004		
2.228e-005	-1.229e-004	0.000e+000	-1.239e-004	-1.239e-004	elocal				
14	-2.414	-8.667	-0.313	4.347e-004	-2.712e-004	-7.058e-004	5.851e-005		
9.270e-006	-6.778e-005	0.000e+000	-1.070e-004	-1.070e-004	elocal				
15	-2.870	-2.333	-1.566	2.876e-004	3.084e-005	-2.569e-004	1.600e-005		
3.715e-005	2.114e-005	0.000e+000	-1.169e-004	-1.169e-004	elocal				
16	-2.756	-2.667	-1.253	3.761e-004	-2.905e-004	-6.666e-004	4.411e-005		
1.453e-005	-2.958e-005	0.000e+000	-1.793e-004	-1.793e-004	elocal				
17	-2.870	-3.333	-1.566	4.928e-004	1.674e-004	-3.254e-004	4.072e-005		
5.503e-005	1.431e-005	0.000e+000	-1.421e-004	-1.421e-004	elocal				
18	-2.756	-3.667	-1.253	5.613e-004	-3.514e-004	-9.127e-004	7.842e-005		
4.504e-006	-7.391e-005	0.000e+000	-2.065e-004	-2.065e-004	elocal				
19	-2.870	-4.333	-1.566	6.215e-004	2.552e-004	-3.663e-004	8.011e-005		
8.312e-005	3.015e-006	0.000e+000	-1.566e-004	-1.566e-004	elocal				
20	-2.756	-4.667	-1.253	6.725e-004	-3.882e-004	-1.061e-003	1.130e-004		
2.237e-006	-1.202e-004	0.000e+000	-2.121e-004	-2.121e-004	elocal				
21	-2.870	-5.333	-1.566	6.918e-004	3.004e-004	-3.913e-004	1.012e-004		
9.601e-005	5.184e-006	0.000e+000	-2.151e-004	-2.151e-004	elocal				
22	-2.756	-5.667	-1.253	7.291e-004	-4.102e-004	-1.139e-003	1.267e-004		

Joe

Joe

-3.590 -1.990 -0.100 -0.404 0.915 0.019 9.310e+000 0.911 0.404 -0.079
8.090e+000 0.080 0.015 0.997 -8.277e-002
-3.190 -1.990 -0.100 0.470 0.868 0.163 1.209e+001 0.869 -0.422 -0.257
6.169e+000 0.154 -0.263 0.952 -2.462e-001
-2.790 -1.990 -0.100 0.322 0.940 0.109 1.200e+001 0.947 -0.319 -0.045
5.852e+000 0.008 -0.118 0.993 -7.931e-002
-2.390 -1.990 -0.100 0.420 0.758 0.498 4.986e+001 0.903 -0.294 -0.314
1.384e+001 0.082 -0.582 0.808 -1.971e+001
-1.990 -1.990 -0.100 0.714 -0.695 0.088 7.062e+000 0.690 0.719 0.085
1.572e+000 -0.122 0.000 0.993 -1.773e-001
-1.590 -1.990 -0.100 0.999 -2.201e-002
4.431e+000 -0.034 0.009 0.999 -2.201e-002 0.797 0.604 0.021
-1.190 -1.990 -0.100 0.319 0.948 -0.016 6.258e+000 0.948 0.319 0.012
5.015e+000 -0.017 0.012 1.000 -1.017e-002
-0.790 -1.990 -0.100 0.175 0.984 -0.018 6.452e+000 0.985 0.175 0.009
4.941e+000 -0.012 0.016 1.000 -6.354e-003
-0.390 -1.990 -0.100 0.180 0.983 -0.032 6.439e+000 0.984 0.181 0.005
4.894e+000 -0.010 0.031 0.999 -1.241e-002
0.010 -1.990 -0.100 0.263 0.962 -0.073 6.342e+000 0.965 0.263 -0.008
4.991e+000 -0.012 0.072 0.997 -6.043e-002
0.410 -1.990 -0.100 0.722 -0.684 0.106 6.666e+000 0.692 0.716 -0.097
4.584e+000 -0.010 0.143 0.990 -2.157e-002
0.810 -1.990 -0.100 0.785 -0.575 0.231 8.448e+000 -0.526 -0.421 0.739
4.745e+000 0.327 0.702 0.633 -3.771e+000
1.210 -1.990 -0.100 0.594 0.804 -0.021 1.166e+001 0.712 -0.537 -0.452
3.331e+000 0.375 -0.253 0.892 -8.123e-001
1.610 -1.990 -0.100 0.481 0.877 -0.014 7.179e+000 0.834 -0.462 -0.302
3.255e+000 0.271 -0.134 0.953 -3.744e-001
2.010 -1.990 -0.100 0.193 0.981 0.005 6.487e+000 0.970 -0.190 -0.153
1.382e+000 0.149 -0.035 0.988 1.096e-001
2.410 -1.990 -0.100 0.305 0.952 0.006 7.653e+000 0.946 -0.304 0.111
1.330e+000 -0.108 0.028 0.994 -2.230e-002
2.810 -1.990 -0.100 0.367 0.930 0.001 7.759e+000 0.929 -0.366 0.060
1.891e+000 -0.056 0.021 0.998 -1.012e-002
3.210 -1.990 -0.100 0.382 0.924 -0.000 7.757e+000 0.923 -0.382 0.046
2.418e+000 -0.042 0.018 0.999 -5.313e-003
3.610 -1.990 -0.100 0.388 0.922 0.000 7.783e+000 0.921 -0.388 0.038
2.948e+000 -0.035 0.015 0.999 -4.360e-003
4.010 -1.990 -0.100 0.393 0.919 0.001 7.829e+000 0.919 -0.393 0.032
3.482e+000 -0.030 0.012 0.999 -4.021e-003
-3.990 -1.990 -0.100 0.919 -0.393 -0.037 1.123e+001 0.393 0.919 -0.008
8.671e+000 0.037 -0.007 0.999 -6.397e-002
-3.590 -1.990 -0.100 0.573 0.816 0.074 9.477e+000 0.814 0.577 -0.057
8.118e+000 0.089 -0.027 0.996 -1.199e-001
-3.190 -1.990 -0.100 0.122 0.991 0.050 1.041e+001 0.984 -0.115 -0.135
5.161e+000 0.128 -0.066 0.990 -1.482e-002
-2.790 -1.990 -0.100 0.253 0.967 0.029 1.407e+001 0.953 -0.254 0.167
3.812e+000 -0.169 0.014 0.985 -1.214e-001
-2.390 -1.990 -0.100 0.603 0.798 -0.003 1.616e+001 0.753 -0.568 0.332
3.623e+000 -0.263 0.203 0.943 -4.667e-001
-1.990 -1.990 -0.100 0.940 0.340 -0.012 1.110e+001 -0.339 0.934 -0.111
3.470e+000 -0.026 0.108 0.994 -2.654e-002
-1.590 -1.990 -0.100 0.985 0.175 0.001 7.895e+000 -0.175 0.984 -0.023
4.756e+000 -0.005 0.023 1.000 -5.982e-003
-1.190 -1.990 -0.100 0.938 0.347 -0.002 6.703e+000 -0.347 0.938 -0.019
5.469e+000 -0.005 0.018 1.000 -7.326e-003

-0.790 -1.590 -0.100 0.507 0.862 -0.018 6.192e+000 0.862 -0.507 0.017
5.636e+000 -0.006 0.024 1.000 -1.254e-002
-0.390 -1.590 -0.100 0.504 0.863 -0.028 5.911e+000 0.863 0.504 -0.027
5.301e+000 0.009 0.038 0.999 -3.202e-002
0.010 -1.590 -0.100 0.941 -0.338 0.005 6.064e+000 0.335 0.930 -0.154
4.169e+000 0.047 0.147 0.988 -7.131e-002
0.410 -1.590 -0.100 0.952 -0.185 0.242 1.014e+001 0.217 0.969 -0.114
4.774e+000 -0.214 0.161 0.964 -3.934e-001
0.810 -1.590 -0.100 0.986 0.012 -0.165 6.990e+000 0.024 0.977 0.214
3.486e+000 0.164 -0.215 0.963 -4.830e-001
1.210 -1.590 -0.100 -0.055 0.998 0.022 7.679e+000 0.964 0.059 -0.260
2.010e+000 0.261 -0.007 0.965 -1.846e-001
1.610 -1.590 -0.100 0.097 0.995 0.016 8.172e+000 0.945 -0.087 -0.316
1.353e+000 0.313 -0.046 0.949 -6.652e-002
2.010 -1.590 -0.100 0.135 0.991 0.018 5.908e+000 0.918 -0.132 0.375
7.769e-001 -0.374 0.034 0.927 -1.538e-001
2.410 -1.590 -0.100 0.238 0.971 0.011 6.907e+000 0.957 -0.236 0.168
8.042e-001 -0.166 0.030 0.986 -3.113e-002
2.810 -1.590 -0.100 0.300 0.954 0.001 7.347e+000 0.949 -0.299 0.095
1.321e+000 -0.091 0.028 0.995 -1.297e-002
3.210 -1.590 -0.100 0.327 0.945 -0.000 7.519e+000 0.943 -0.326 0.065
1.940e+000 -0.062 0.022 0.998 -8.066e-003
3.610 -1.590 -0.100 0.340 0.941 -0.000 7.617e+000 0.939 -0.339 0.049
2.575e+000 -0.046 0.017 0.999 -6.263e-003
4.010 -1.590 -0.100 0.349 0.937 0.000 7.699e+000 0.936 -0.349 0.039
3.191e+000 -0.036 0.013 0.999 -5.225e-003
-3.990 -1.190 -0.100 0.943 -0.332 -0.031 1.109e+001 0.332 0.943 -0.006
8.974e+000 0.031 -0.005 1.000 -4.640e-002
-3.590 -1.190 -0.100 -0.201 0.979 0.031 9.328e+000 0.977 0.203 -0.069
8.547e+000 0.074 -0.017 0.997 -8.278e-002
-3.190 -1.190 -0.100 0.334 0.942 0.026 8.833e+000 0.941 -0.331 -0.067
4.061e+000 0.054 -0.047 0.997 -6.112e-001
-2.790 -1.190 -0.100 0.325 0.946 0.007 1.258e+001 0.942 -0.324 0.091
4.513e+000 -0.089 0.023 0.996 -7.615e-002
-2.390 -1.190 -0.100 0.615 0.789 -0.004 1.237e+001 0.786 -0.612 0.091
3.960e+000 -0.069 0.059 0.996 -2.758e-002
-1.990 -1.190 -0.100 0.826 0.564 -0.007 1.088e+001 -0.563 0.824 -0.053
3.944e+000 -0.024 0.048 0.999 -8.660e-003
-1.590 -1.190 -0.100 0.907 0.422 -0.007 9.233e+000 -0.422 0.906 -0.024
4.333e+000 -0.004 0.024 1.000 -5.669e-003
-1.190 -1.190 -0.100 0.901 0.433 -0.012 8.147e+000 -0.433 0.901 -0.021
4.683e+000 0.002 0.024 1.000 -7.769e-003
-0.790 -1.190 -0.100 0.809 0.588 -0.027 7.282e+000 -0.588 0.808 -0.034
4.938e+000 0.002 0.043 0.999 -2.480e-002
-0.390 -1.190 -0.100 0.926 0.998 -0.065 6.077e+000 1.000 -0.025 0.014
5.215e+000 -0.013 0.065 0.998 -7.577e-002
0.010 -1.190 -0.100 0.899 -0.438 -0.002 6.514e+000 0.437 0.897 0.060
2.418e+000 -0.025 -0.055 0.998 1.094e-001
0.410 -1.190 -0.100 0.893 -0.352 -0.280 4.220e+000 0.397 0.909 0.127
4.992e-001 0.210 -0.224 0.952 -3.833e-001
0.810 -1.190 -0.100 0.002 1.000 -0.005 6.262e+000 0.966 -0.004 -0.258
1.757e+000 0.258 0.004 0.966 -6.050e-002
1.210 -1.190 -0.100 -0.035 0.999 0.001 7.844e+000 0.945 0.034 -0.326
1.072e+000 0.326 0.010 0.945 -1.298e-001
1.610 -1.190 -0.100 -0.061 0.998 0.010 8.019e+000 -0.701 -0.051 0.711
2.556e-001 0.711 0.036 0.703 -1.697e-001

2.010 -1.190 -0.100 0.144 0.989 0.017 6.072e+000 0.963 -0.137 -0.232
5.400e-001 0.227 -0.050 0.973 -2.081e-003
2.410 -1.190 -0.100 0.216 0.976 0.007 6.468e+000 0.959 -0.213 0.188
4.170e-001 -0.185 0.034 0.982 -8.492e-003
2.810 -1.190 -0.100 0.251 0.968 0.001 6.971e+000 0.958 -0.249 0.143
9.012e-001 -0.139 0.035 0.990 -1.694e-002
3.210 -1.190 -0.100 0.276 0.961 -0.000 7.249e+000 0.957 -0.275 0.089
1.573e+000 -0.085 0.025 0.996 -1.167e-002
3.610 -1.190 -0.100 0.293 0.956 -0.000 7.424e+000 0.954 -0.292 0.061
2.269e+000 -0.059 0.018 0.999 -8.506e-003
4.010 -1.190 -0.100 0.305 0.952 0.000 7.555e+000 0.951 -0.305 0.045
2.941e+000 -0.043 0.014 0.999 -6.569e-003
-3.990 -0.790 -0.100 0.984 -0.177 -0.026 1.115e+001 0.177 0.984 -0.002
9.012e+000 0.026 -0.002 1.000 -3.718e-002
-3.590 -0.790 -0.100 0.938 0.343 -0.058 9.356e+000 -0.342 0.939 0.032
8.805e+000 0.066 -0.010 0.998 -1.097e-001
-3.190 -0.790 -0.100 0.576 0.816 -0.055 8.255e+000 0.803 -0.577 -0.149
6.802e+000 0.153 -0.042 0.987 -1.594e-001
-2.790 -0.790 -0.100 0.363 0.932 -0.005 1.130e+001 0.932 -0.363 -0.003
4.473e+000 0.004 0.003 1.000 4.216e-002
-2.390 -0.790 -0.100 0.606 0.795 -0.003 1.062e+001 0.795 -0.606 0.038
4.368e+000 -0.028 0.025 0.999 1.176e-003
-1.990 -0.790 -0.100 0.780 0.626 -0.003 9.992e+000 -0.626 0.780 -0.028
4.396e+000 -0.015 0.024 1.000 -5.667e-003
-1.590 -0.790 -0.100 0.879 0.477 -0.007 9.361e+000 -0.477 0.879 -0.015
4.419e+000 -0.001 0.016 1.000 -6.237e-003
-1.190 -0.790 -0.100 0.915 0.404 -0.017 8.835e+000 -0.404 0.915 -0.010
4.374e+000 0.011 0.016 1.000 -9.558e-003
-0.790 -0.790 -0.100 0.913 0.407 -0.044 8.305e+000 -0.408 0.913 -0.019
4.240e+000 0.033 0.035 0.999 -3.204e-002
-0.390 -0.790 -0.100 0.874 0.465 -0.140 7.602e+000 -0.480 0.871 -0.105
4.221e+000 0.073 0.159 0.985 -1.134e-001
0.010 -0.790 -0.100 0.440 0.700 0.562 1.819e+000 0.842 -0.539 0.012
-2.498e+000 -0.311 -0.468 0.827 -1.712e+001
0.410 -0.790 -0.100 0.951 -0.285 -0.119 3.976e+000 0.290 0.957 0.019
3.334e+000 0.109 -0.053 0.993 -1.040e-002
0.810 -0.790 -0.100 0.969 0.998 0.013 5.672e+000 0.994 0.069 -0.085
2.377e+000 0.086 0.007 0.996 -1.631e-002
1.210 -0.790 -0.100 0.941 0.999 -0.014 8.095e+000 0.981 -0.043 -0.191
1.030e+000 0.192 0.006 0.981 -5.843e-002
1.610 -0.790 -0.100 -0.154 0.988 0.010 9.802e+000 -0.178 -0.038 0.983
3.321e-002 0.972 0.149 0.182 -1.189e+000
2.010 -0.790 -0.100 0.117 0.993 0.015 5.112e+000 -0.172 0.006 0.985
7.956e-002 0.978 -0.118 0.171 -6.123e-001
2.410 -0.790 -0.100 0.167 0.986 0.004 6.178e+000 0.424 -0.075 0.902
5.617e-002 0.890 -0.149 -0.431 -1.932e-001
2.810 -0.790 -0.100 0.204 0.979 0.001 6.651e+000 0.955 -0.200 0.218
6.126e-001 -0.214 0.044 0.976 -2.716e-002
3.210 -0.790 -0.100 0.232 0.973 0.000 6.989e+000 0.967 -0.231 0.111
1.322e+000 -0.108 0.026 0.994 -1.547e-002
3.610 -0.790 -0.100 0.251 0.968 0.000 7.230e+000 0.966 -0.250 0.072
2.042e+000 -0.070 0.018 0.997 -1.066e-002
4.010 -0.790 -0.100 0.264 0.965 0.000 7.409e+000 0.963 -0.263 0.051
2.743e+000 -0.050 0.013 0.999 -7.858e-003
-3.990 -0.390 -0.100 0.995 -0.098 -0.024 1.145e+001 0.098 0.995 -0.001
8.788e+000 0.024 -0.001 1.000 -3.124e-002

-3.590 -0.390 -0.100 0.993 0.100 -0.062 9.858e+000 -0.100 0.995 0.010
8.490e+000 0.062 -0.004 0.998 -9.900e-002
-3.190 -0.390 -0.100 0.593 0.799 -0.101 8.029e+000 0.793 -0.601 -0.103
6.709e+000 0.143 0.019 0.990 -7.342e-002
-2.790 -0.390 -0.100 0.368 0.930 -0.006 9.513e+000 0.929 -0.368 -0.027
4.813e+000 0.028 -0.004 1.000 4.561e-002
-2.390 -0.390 -0.100 0.561 0.828 -0.001 9.199e+000 0.827 -0.561 0.025
4.758e+000 -0.020 0.015 1.000 4.325e-003
-1.990 -0.390 -0.100 0.756 0.655 0.000 8.970e+000 -0.655 0.755 -0.018
4.956e+000 -0.012 0.013 1.000 -5.669e-003
-1.590 -0.390 -0.100 0.884 0.468 -0.005 8.822e+000 -0.468 0.884 -0.006
4.925e+000 0.001 0.007 1.000 -6.820e-003
-1.190 -0.390 -0.100 0.947 0.320 -0.015 8.681e+000 -0.320 0.947 0.002
4.741e+000 0.015 0.003 1.000 -1.151e-002
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4.554e+000 0.040 0.003 0.999 -4.125e-002
-0.390 -0.390 -0.100 0.996 0.004 -0.085 7.197e+000 -0.005 1.000 -0.003
4.933e+000 0.085 0.003 0.996 -6.585e-002
0.010 -0.390 -0.100 0.819 -0.567 -0.087 6.498e+000 0.572 0.819 0.041
3.421e+000 0.048 -0.083 0.995 -4.924e-002
0.410 -0.390 -0.100 0.824 -0.564 -0.061 4.243e+000 0.565 0.825 0.005
3.746e+000 0.048 -0.039 0.998 6.022e-003
0.810 -0.390 -0.100 0.030 0.999 0.015 5.545e+000 0.998 -0.030 -0.055
2.958e+000 0.054 -0.016 0.998 -1.889e-002
1.210 -0.390 -0.100 0.055 0.998 0.003 7.286e+000 0.984 -0.053 -0.168
2.336e+000 0.168 -0.012 0.986 -5.426e-002
1.610 -0.390 -0.100 0.062 0.998 -0.020 1.186e+001 0.992 -0.064 -0.105
1.562e+000 0.106 0.014 0.994 3.942e-001
2.010 -0.390 -0.100 -0.063 0.997 0.034 4.666e+000 0.346 -0.010 0.938
2.236e-002 0.936 0.071 -0.345 -2.603e-001
2.410 -0.390 -0.100 0.100 0.995 0.009 5.724e+000 0.808 -0.086 0.582
1.313e-001 -0.580 0.051 0.813 -5.468e-002
2.810 -0.390 -0.100 0.170 0.985 0.002 6.323e+000 0.960 -0.166 0.226
5.656e-001 -0.223 0.037 0.974 -2.616e-002
3.210 -0.390 -0.100 0.199 0.980 0.000 6.753e+000 0.972 -0.197 0.126
1.188e+000 -0.124 0.025 0.992 -1.776e-002
3.610 -0.390 -0.100 0.215 0.977 0.000 7.055e+000 0.973 -0.215 0.081
1.888e+000 -0.390 0.017 0.997 -1.235e-002
4.010 -0.390 -0.100 0.227 0.974 0.000 7.275e+000 0.972 -0.227 0.056
2.596e+000 -0.055 0.013 0.998 -8.939e-003
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8.578e+000 0.023 -0.002 1.000 -2.973e-002
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8.342e+000 0.057 -0.007 0.998 -9.223e-002
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4.912e+000 0.019 0.016 1.000 7.250e-002
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5.192e+000 -0.022 0.011 1.000 9.683e-004
-1.990 0.010 -0.100 0.729 0.695 0.005 8.006e+000 -0.685 0.729 -0.014
5.540e+000 -0.013 0.007 1.000 -6.595e-003
-1.590 0.010 -0.100 0.898 0.440 -0.000 8.058e+000 -0.440 0.898 -0.001
5.584e+000 -0.000 0.001 1.000 -7.270e-003
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5.438e+000 0.013 -0.005 1.000 -1.031e-002

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 5.233e+000 0.035 -0.009 0.999 -3.100e-002
 -0.390 0.010 -0.100 0.917 -0.390 -0.079 7.604e+000 0.388 0.921 -0.044
 5.003e+000 0.090 0.010 0.996 -3.014e-002
 0.010 0.010 -0.100 -999.000 -999.000 -999.000 -9.990e+002 -999.000 -
 999.000 -999.000 -9.990e+002 -999.000 -999.000 -999.000 -9.990e+002
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 0.810 0.010 -0.100 0.096 0.995 0.013 6.052e+000 0.995 -0.096 -0.025
 2.446e+000 0.023 -0.015 1.000 -1.470e-002
 1.210 0.010 -0.100 0.048 0.999 0.018 7.565e+000 0.995 -0.046 -0.087
 1.777e+000 0.086 -0.022 0.996 -5.451e-002
 1.610 0.010 -0.100 0.128 0.992 0.015 8.260e+000 0.909 -0.112 -0.402
 9.694e-001 0.397 -0.065 0.916 -1.514e-001
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 1.120e+000 0.014 -0.034 0.999 -1.449e-002
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 1.109e+000 -0.133 0.024 0.991 -1.887e-002
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 1.788e+000 -0.086 0.016 0.996 -1.351e-002
 4.010 0.010 -0.100 0.196 0.981 0.000 7.163e+000 0.979 -0.195 0.060
 2.492e+000 -0.059 0.012 0.998 -9.747e-003
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 8.431e+000 0.021 -0.002 1.000 -3.125e-002
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 5.974e+000 -0.016 0.003 1.000 -7.648e-003
 -1.590 0.410 -0.100 0.898 0.440 0.005 7.420e+000 -0.440 0.898 -0.000
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 6.096e+000 0.006 -0.008 1.000 -9.679e-003
 -0.790 0.410 -0.100 0.990 -0.141 -0.021 6.912e+000 0.141 0.990 0.014
 6.056e+000 0.019 -0.017 1.000 -2.329e-002
 -0.390 0.410 -0.100 0.003 1.000 0.025 6.046e+000 0.999 -0.002 -0.050
 5.375e+000 0.050 -0.026 0.998 -5.351e-002
 0.010 0.410 -0.100 0.555 0.831 -0.035 4.397e+000 0.819 -0.553 -0.156
 3.652e+000 0.149 -0.057 0.987 -5.680e-002
 0.410 0.410 -0.100 0.139 0.990 0.018 5.037e+000 0.988 -0.137 -0.077
 2.350e+000 0.074 -0.028 0.997 1.876e-002
 0.810 0.410 -0.100 0.113 0.994 0.005 6.470e+000 0.993 -0.113 -0.019
 1.915e+000 0.018 -0.007 1.000 -6.245e-003
 1.210 0.410 -0.100 0.097 0.995 -0.002 7.577e+000 0.994 -0.097 -0.046
 1.561e+000 0.046 -0.003 0.999 -1.986e-002
 1.610 0.410 -0.100 0.112 0.993 -0.021 8.536e+000 0.989 -0.109 0.104
 1.145e+000 -0.101 0.032 0.994 -3.065e-002

-3.590 1.210 -0.100 0.995 -0.089 -0.052 1.077e+001 0.089 0.996 -0.003
 7.815e+000 0.052 -0.001 0.999 -7.939e-002
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 7.357e+000 0.152 -0.064 0.986 -7.129e-001
 -2.790 1.210 -0.100 0.003 0.999 -0.033 6.660e+000 1.000 -0.002 0.018
 5.265e+000 -0.018 0.033 0.999 3.926e-002
 2.390 1.210 -0.100 0.097 0.995 -0.003 6.678e+000 0.995 -0.097 0.029
 5.712e+000 -0.028 0.006 1.000 -4.101e-003
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 6.287e+000 -0.022 0.002 1.000 -9.877e-003
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 6.545e+000 -0.002 -0.004 1.000 -1.036e-002
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 5.738e+000 0.027 -0.008 1.000 -2.990e-002
 0.010 1.210 -0.100 0.810 0.585 -0.052 6.479e+000 -0.583 0.811 0.049
 4.831e+000 0.071 -0.009 0.997 -5.445e-002
 0.410 1.210 -0.100 0.022 0.998 0.058 5.743e+000 0.984 -0.012 -0.180
 4.927e+000 0.179 -0.061 0.982 1.021e-002
 0.810 1.210 -0.100 0.156 0.988 -0.005 6.820e+000 0.987 -0.156 -0.045
 2.823e+000 0.045 -0.002 0.999 -1.283e-003
 1.210 1.210 -0.100 0.138 0.990 0.003 7.266e+000 0.988 -0.138 -0.062
 2.022e+000 0.061 -0.011 0.998 -1.893e-002
 1.134e+000 1.210 -0.100 0.175 0.985 0.001 7.718e+000 0.969 -0.172 -0.176
 3.549e-001 1.210 -0.031 0.984 -5.339e-002
 6.939e-001 1.210 -0.100 0.130 0.992 -0.001 7.632e+000 0.990 -0.130 -0.058
 2.410 1.210 -0.057 -0.006 0.998 5.684e-002
 6.939e-001 1.210 -0.100 0.157 0.987 0.019 5.549e+000 0.981 -0.154 -0.122
 2.810 1.210 -0.038 0.992 3.056e-002
 5.278e-001 1.210 -0.100 0.161 0.987 0.002 6.053e+000 0.971 -0.159 0.181
 3.210 1.210 -0.100 0.139 0.990 0.001 6.431e+000 0.981 -0.138 0.138
 1.039e+000 -0.137 0.019 0.990 -1.702e-002
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 6.838e+000 0.107 0.019 0.994 2.344e-002
 -2.790 1.610 -0.100 0.625 0.780 -0.013 6.492e+000 0.780 -0.625 -0.009
 6.094e+000 0.016 0.005 1.000 1.323e-002
 -2.390 1.610 -0.100 0.141 0.990 -0.002 6.469e+000 0.990 -0.141 0.025
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 -1.990 1.610 -0.100 0.124 0.992 0.000 6.683e+000 0.992 -0.124 0.024
 6.289e+000 -0.024 0.003 1.000 -1.009e-002
 -1.590 1.610 -0.100 0.997 -0.050 0.014 6.817e+000 0.080 0.997 0.002
 6.735e+000 -0.014 -0.001 1.000 -1.063e-002
 -1.190 1.610 -0.100 1.000 -0.015 0.003 7.199e+000 0.015 1.000 0.003
 6.632e+000 -0.003 -0.003 1.000 -1.020e-002

2.010 0.410 -0.100 0.358 0.928 0.105 2.469e+000 -0.259 -0.009 0.966
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 6.194e+000 -0.019 0.002 1.000 -8.802e-003
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 0.810 0.810 -0.100 0.085 0.996 0.005 6.715e+000 0.996 -0.085 -0.038
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 5.078e-001 -0.213 0.030 0.977 -1.521e-002
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 2.387e+000 -0.064 0.009 0.998 -1.050e-002
 -3.990 1.210 -0.100 0.990 -0.138 -0.020 1.222e+001 0.138 0.990 -0.003
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 0.810 1.610 -0.100 0.237 0.971 -0.006 6.856e+000 0.970 -0.237 -0.056
 3.257e+000 0.056 -0.008 0.998 6.482e-003
 1.210 1.610 -0.100 0.186 0.983 -0.001 7.188e+000 0.981 -0.186 -0.049
 2.338e+000 0.049 -0.008 0.999 -1.569e-002
 1.610 1.610 -0.100 0.186 0.983 -0.005 7.436e+000 0.974 -0.185 -0.129
 1.765e+000 0.127 -0.019 0.992 -4.733e-002
 2.010 1.610 -0.100 0.138 0.990 -0.030 7.788e+000 0.938 -0.140 -0.316
 1.364e+000 0.317 -0.016 0.948 -4.888e-002
 2.410 1.610 -0.100 0.145 0.989 0.030 5.781e+000 -0.549 0.055 0.834
 8.678e-002 0.823 -0.137 0.551 -1.471e-001
 2.810 1.610 -0.100 0.134 0.991 0.003 6.230e+000 0.976 -0.133 0.170
 4.820e-001 -0.169 0.020 0.985 -3.446e-004
 3.210 1.610 -0.100 0.124 0.992 0.001 6.473e+000 0.984 -0.123 0.127
 1.074e+000 -0.126 0.015 0.992 -3.446e-004
 3.610 1.610 -0.100 0.113 0.994 0.000 6.753e+000 0.990 -0.112 0.089
 1.709e+000 -0.088 0.010 0.996 -1.284e-002
 4.010 1.610 -0.100 0.102 0.995 -0.000 7.003e+000 0.993 -0.102 0.064
 2.380e+000 -0.063 0.007 0.998 -1.014e-002
 -3.990 2.010 -0.100 0.974 -0.225 -0.018 1.210e+001 0.225 0.974 -0.001
 7.866e+000 0.018 -0.003 1.000 -2.680e-002
 -3.590 2.010 -0.100 0.959 -0.280 -0.050 1.081e+001 0.281 0.960 0.003
 7.379e+000 0.047 -0.017 0.999 -7.615e-002
 -3.190 2.010 -0.100 0.834 -0.539 -0.122 8.615e+000 0.549 0.833 0.071
 6.171e+000 0.063 -0.126 0.990 -2.752e-001
 -2.790 2.010 -0.100 0.733 0.680 -0.021 6.850e+000 -0.680 0.733 0.004
 5.405e+000 0.018 0.011 1.000 4.477e-002
 -2.390 2.010 -0.100 0.293 0.956 -0.004 6.534e+000 0.956 -0.292 0.027
 5.507e+000 -0.025 0.012 1.000 4.814e-003
 -1.990 2.010 -0.100 -0.059 0.998 -0.006 6.757e+000 0.998 0.059 0.026
 6.102e+000 -0.026 0.004 1.000 -1.091e-002
 -1.590 2.010 -0.100 -0.649 0.760 -0.010 7.022e+000 0.760 0.649 0.012
 6.567e+000 -0.016 -0.001 1.000 -1.092e-002
 -1.190 2.010 -0.100 0.912 -0.411 0.002 7.403e+000 0.411 0.912 0.005
 6.596e+000 -0.004 -0.004 1.000 -1.007e-002
 -0.790 2.010 -0.100 0.962 -0.273 -0.009 7.611e+000 0.273 0.962 0.005
 6.428e+000 0.008 -0.007 1.000 -1.055e-002
 -0.390 2.010 -0.100 0.976 -0.217 -0.024 7.497e+000 0.218 0.976 0.008
 6.201e+000 0.022 -0.013 1.000 -1.776e-002
 0.010 2.010 -0.100 0.978 -0.204 -0.053 6.820e+000 0.053 0.978 0.016
 6.071e+000 0.049 -0.027 0.998 -5.208e-002
 0.410 2.

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2.010	2.010	-0.100	0.163	0.987	-0.002	7.499e+000	0.962	-0.159	-0.224
1.002e+000	0.221	-0.035	0.975	-4.423e-002					
2.410	2.010	-0.100	0.116	0.993	0.014	6.661e+000	0.980	-0.112	-0.167
7.410e+001	0.164	-0.033	0.986	-9.008e-004					
2.810	2.010	-0.100	0.116	0.993	0.005	6.251e+000	0.992	-0.116	0.049
8.707e+001	-0.050	0.001	0.999	1.707e-002					
3.210	2.010	-0.100	0.116	0.993	0.001	6.511e+000	0.988	-0.115	0.106
1.176e+000	-0.105	0.012	0.994	-7.899e-003					
3.610	2.010	-0.100	0.099	0.995	-0.000	6.793e+000	0.992	-0.098	0.085
1.744e+000	-0.084	0.008	0.996	-1.140e-002					
4.010	2.010	-0.100	0.082	0.997	-0.000	7.033e+000	0.995	-0.082	0.062
2.400e+000	-0.062	0.005	0.998	-9.667e-003					
-3.990	2.410	-0.100	0.978	-0.207	-0.015	1.189e+001	0.207	0.978	-0.002
7.975e+000	0.015	-0.001	1.000	-2.205e-002					
-3.590	2.410	-0.100	0.981	-0.192	-0.039	1.039e+001	0.192	0.981	0.001
7.781e+000	0.038	-0.009	0.999	-6.524e-002					
-3.190	2.410	-0.100	0.991	0.092	-0.093	7.954e+000	-0.088	0.995	0.048
6.744e+000	0.097	-0.040	0.994	-1.253e-001					
-2.790	2.410	-0.100	0.514	0.856	-0.054	6.344e+000	0.851	-0.517	-0.097
4.752e+000	0.111	-0.004	0.994	1.178e-001					
-2.390	2.410	-0.100	0.106	0.994	-0.016	6.708e+000	0.994	-0.105	0.040
4.830e+000	-0.039	0.020	0.999	-2.962e-003					
-1.990	2.410	-0.100	-0.240	0.971	-0.011	7.029e+000	0.970	0.240	0.030
5.733e+000	-0.031	0.004	0.999	-1.345e-002					
-1.590	2.410	-0.100	-0.593	0.805	-0.009	7.395e+000	0.805	0.593	0.015
6.263e+000	-0.018	-0.002	1.000	-1.127e-002					
-1.190	2.410	-0.100	0.796	-0.605	0.002	7.775e+000	0.605	0.796	0.008
6.412e+000	-0.006	-0.005	1.000	-9.993e-003					
-0.790	2.410	-0.100	0.875	-0.483	-0.009	7.976e+000	0.483	0.875	0.006
6.364e+000	0.005	-0.009	1.000	-1.032e-002					
-0.390	2.410	-0.100	0.904	-0.428	-0.022	7.834e+000	0.428	0.904	0.006
6.275e+000	0.017	-0.015	1.000	-1.555e-002					
0.010	2.410	-0.100	0.895	-0.445	-0.046	7.118e+000	0.445	0.895	0.006
6.271e+000	0.039	-0.026	0.999	-3.491e-002					
0.410	2.410	-0.100	0.342	0.939	0.031	6.463e+000	0.935	-0.337	-0.111
5.229e+000	0.094	-0.067	0.993	-8.012e-002					
0.810	2.410	-0.100	0.068	0.996	-0.051	6.824e+000	0.998	-0.068	-0.001
3.486e+000	0.005	0.051	0.999	-6.586e-002					
1.210	2.410	-0.100	0.136	0.991	-0.002	7.058e+000	0.990	-0.136	-0.029
2.743e+000	0.029	-0.002	1.000	-1.592e-002					
1.610	2.410	-0.100	0.151	0.989	0.001	7.342e+000	0.985	-0.151	-0.079
2.302e+000	0.077	-0.013	0.997	-3.671e-002					
2.010	2.410	-0.100	0.164	0.986	-0.009	7.388e+000	0.967	-0.163	-0.194
1.738e+000	0.193	-0.023	0.981	-7.589e-002					
2.410	2.410	-0.100	0.135	0.991	-0.026	7.629e+000	0.971	-0.137	-0.198
2.587e+000	0.200	-0.001	0.980	1.149e+000					
2.810	2.410	-0.100	0.168	0.986	0.007	6.399e+000	0.986	-0.168	0.020
7.792e+001	-0.021	-0.004	1.000	2.058e-002					
3.210	2.410	-0.100	0.111	0.994	0.001	6.644e+000	0.989	-0.111	0.098
1.163e+000	-0.097	0.010	0.995	-4.333e-003					
3.610	2.410	-0.100	0.082	0.997	-0.000	6.873e+000	0.993	-0.082	0.081
1.767e+000	-0.081	0.007	0.997	-9.968e-003					
4.010	2.410	-0.100	0.060	0.998	-0.000	7.089e+000	0.996	-0.060	0.061
2.430e+000	-0.060	0.004	0.998	-9.094e-003					
-3.990	2.810	-0.100	0.986	-0.168	-0.014	1.197e+001	0.168	0.986	-0.002
7.867e+000	0.014	-0.000	1.000	-1.792e-002					

-0.790	3.210	-0.100	0.772	-0.636	-0.006	8.941e+000	0.636	0.772	0.010
6.057e+000	-0.002	-0.012	1.000	-9.569e-003					
-0.390	3.210	-0.100	0.822	-0.569	-0.017	8.774e+000	0.569	0.822	0.009
6.152e+000	0.009	-0.017	1.000	-1.248e-002					
0.010	3.210	-0.100	0.869	-0.494	-0.034	8.102e+000	0.495	0.869	0.008
6.271e+000	0.026	-0.024	0.999	-2.549e-002					
0.410	3.210	-0.100	0.993	0.091	-0.071	6.620e+000	-0.087	0.994	0.058
6.329e+000	0.076	-0.051	0.996	-1.236e-001					
0.810	3.210	-0.100	0.378	0.911	-0.163	6.528e+000	0.770	-0.407	-0.491
2.990e+000	0.514	-0.060	0.856	-5.338e-002					
1.210	3.210	-0.100	0.078	0.997	-0.020	7.169e+000	0.997	-0.078	0.015
2.613e+000	-0.014	0.021	1.000	-3.528e-002					
1.610	3.210	-0.100	0.052	0.999	-0.002	7.360e+000	0.998	-0.052	-0.037
2.821e+000	0.037	0.000	0.999	-2.448e-002					
2.010	3.210	-0.100	0.075	0.997	-0.000	7.444e+000	0.992	-0.075	-0.100
2.408e+000	0.100	-0.007	0.995	-5.113e-002					
2.410	3.210	-0.100	0.050	0.999	0.001	7.395e+000	0.997	-0.050	-0.064
1.629e+000	0.064	-0.004	0.998	3.886e-003					
2.810	3.210	-0.100	0.035	0.999	0.017	6.534e+000	0.998	-0.035	-0.051
1.694e+000	0.051	-0.019	0.999	2.670e-002					
3.210	3.210	-0.100	0.071	0.998	-0.000	6.802e+000	0.996	-0.071	0.052
1.420e+000	-0.052	0.004	0.999	8.740e-003					
3.610	3.210	-0.100	0.036	0.999	-0.001	7.072e+000	0.997	-0.035	0.069
1.900e+000	-0.069	0.004	0.998	-6.338e-003					
4.010	3.210	-0.100	0.005	1.000	-0.001	7.259e+000	0.998	-0.005	0.055
2.558e+000	-0.055	0.001	0.998	-7.709e-003					
-3.990	3.610	-0.100	0.980	-0.201	-0.012	1.227e+001	0.201	0.980	-0.001
7.480e+000	0.012	-0.002	1.000	-1.137e-002					
-3.590	3.610	-0.100	0.985	-0.169	-0.026	1.151e+001	0.169	0.986	0.002
7.274e+000	0.026	-0.006	1.000	-3.418e-002					
-3.190	3.610	-0.100	0.992	-0.105	-0.065	9.812e+000	0.106	0.994	0.014
7.040e+000	0.063	-0.021	0.998	-1.063e-001					
-2.790	3.610	-0.100	0.679	0.708	-0.196	7.181e+000	0.660	-0.705	-0.260
5.827e+000	0.322	-0.047	0.946	-4.816e-001					
-2.390	3.610	-0.100	-0.148	0.988	-0.043	7.493e+000	0.988	0.149	0.037
4.374e+000	-0.043	0.037	0.998	-1.086e-002					
-1.990	3.610	-0.100	-0.437	0.899	-0.018	8.197e+000	0.899	0.438	0.031
4.991e+000	-0.036	0.002	0.999	-1.440e-002					
-1.590	3.610	-0.100	-0.582	0.813	-0.009	8.852e+000	0.813	0.582	0.023
5.406e+000	-0.024	-0.006	1.000	-1.161e-002					
-1.190	3.610	-0.100	-0.676	0.735	-0.002	9.321e+000	0.735	0.678	0.017
5.691e+000	-0.014	-0.010	1.000	-9.696e-003					
-0.790	3.610	-0.100	0.747	-0.665	-0.006	9.528e+000	0.665	0.747	0.014
5.877e+000	-0.005	-0.014	1.000	-9.348e-003					
-0.390	3.610	-0.100	0.801	-0.599	-0.015	9.376e+000	0.599	0.801	0.013
6.026e+000	0.004	-0.019	1.000	-1.181e-002					
0.010	3.610	-0.100	0.850	-0.525	-0.030	8.712e+000	0.526	0.850	0.016
6.228e+000	0.017	-0.030	0.999	-2.400e-002					
0.410	3.610	-0.100	0.978	-0.201	-0.051	7.199e+000	0.204	0.977	0.056
6.650e+000	0.039	-0.065	0.997	-5.874e-002					
0.810	3.610	-0.100	0.868	0.482	0.118	8.254e+000	-0.469	0.874	-0.124
5.972e+000	-0.163	0.053	0.985	-7.838e-001					
1.210	3.610	-0.100	0.069	0.997	-0.031	6.472e+000	0.997	-0.070	-0.027
4.109e+000	0.030	0.029	0.999	-1.720e-002					
1.610	3.610	-0.100	-0.020	1.000	-0.007	7.205e+000	0.999	0.019	-0.030
3.320e+000	0.030	0.008	1.000	-2.336e-002					

-3.590	2.810	-0.100	0.995	-0.091	-0.036	1.083e+001	0.091	0.996	0.004
7.638e+000	0.035	-0.008	0.999	-5.455e-002					
-3.190	2.810	-0.100	0.962	0.260	-0.077	8.661e+000	-0.257	0.965	0.050
7.045e+000	0.087	-0.028	0.996	-9.534e-002					
-2.790	2.810	-0.100	0.391	0.916	-0.092	5.158e+000	-0.579	0.322	0.749
4.747e+000	0.715	-0.240	0.656	-2.450e+000					
-2.390	2.810	-0.100	-0.213	0.977	-0.022	7.089e+000	0.975	0.214	0.060
4.533e+000	-0.063	0.009	0.998	-5.672e-002					
-1.990	2.810	-0.100	-0.392	0.920	-0.014	7.419e+000	0.919	0.392	0.030
5.438e+000	-0.033	0.001	0.999	-1.355e-002					
-1.590	2.810	-0.100	-0.591	0.807	-0.009	7.854e+000	0.807	0.591	0.018
5.944e+000	-0.020	-0.003	1.000	-1.126e-002					
-1.190	2.810	-0.100	0.733	-0.681	0.002	8.241e+000	0.681	0.733	0.011
6.169e+000	-0.009	-0.007	1.000	-9.835e-003					
-0.790	2.810	-0.100	0.811	-0.585	-0.007	8.424e+0			

-3.590 4.410 -0.100 0.973 -0.228 -0.024 1.157e+001 0.228 0.974 0.005
 7.078e+000 0.022 -0.011 1.000 -2.482e-002
 -3.190 4.410 -0.100 0.996 -0.066 -0.061 9.938e+000 0.068 0.997 0.024
 6.949e+000 0.059 -0.028 0.998 -1.248e-001
 -2.790 4.410 -0.100 0.665 0.735 -0.134 8.025e+000 0.722 -0.678 -0.137
 5.383e+000 0.192 0.006 0.981 -6.127e-002
 -2.390 4.410 -0.100 -0.110 0.992 -0.057 7.631e+000 0.994 0.111 0.018
 4.714e+000 -0.024 0.054 0.998 1.552e-003
 -1.990 4.410 -0.100 -0.470 0.882 -0.022 9.094e+000 0.882 0.471 0.033
 4.656e+000 -0.039 0.004 0.999 -1.832e-002
 -1.590 4.410 -0.100 -0.587 0.810 -0.011 1.003e+001 0.809 0.587 0.029
 4.999e+000 -0.029 -0.008 1.000 -1.314e-002
 -1.190 4.410 -0.100 -0.660 0.751 -0.003 1.058e+001 0.751 0.660 0.025
 5.362e+000 -0.021 -0.014 1.000 -1.039e-002
 -0.790 4.410 -0.100 0.714 -0.701 -0.003 1.086e+001 0.700 0.713 0.023
 5.652e+000 -0.014 -0.019 1.000 -1.011e-002
 -0.390 4.410 -0.100 0.759 -0.651 -0.012 1.084e+001 0.651 0.758 0.026
 5.864e+000 -0.007 -0.028 1.000 -1.283e-002
 0.010 4.410 -0.100 0.813 -0.582 -0.028 1.043e+001 0.583 0.812 0.034
 6.006e+000 0.003 -0.044 0.999 -1.999e-002
 0.410 4.410 -0.100 0.914 -0.400 -0.064 9.241e+000 0.403 0.913 0.066
 6.127e+000 0.032 -0.086 0.996 -5.468e-002
 0.810 4.410 -0.100 0.651 0.759 0.015 8.064e+000 0.666 -0.562 -0.491
 4.742e+000 0.364 -0.330 0.871 -2.131e+000
 1.210 4.410 -0.100 -0.276 0.956 -0.102 7.817e+000 0.954 0.285 0.097
 2.223e+000 -0.122 0.071 0.990 -3.253e-001
 1.610 4.410 -0.100 -0.439 0.899 -0.010 8.188e+000 0.899 0.438 -0.012
 3.488e+000 0.007 0.015 1.000 -3.461e-002
 2.010 4.410 -0.100 -0.460 0.888 0.015 7.396e+000 0.887 0.460 -0.045
 4.096e+000 0.047 0.007 0.999 -4.133e-002
 2.410 4.410 -0.100 -0.232 0.973 0.008 6.308e+000 0.968 0.232 -0.100
 3.792e+000 0.100 0.015 0.995 -5.064e-002
 2.810 4.410 -0.100 0.089 0.996 -0.025 9.715e+000 0.991 -0.091 -0.097
 5.253e+000 0.099 0.017 0.995 1.961e-001
 3.210 4.410 -0.100 0.023 1.000 -0.005 7.240e+000 1.000 -0.023 -0.001
 2.361e+000 0.001 0.005 1.000 2.236e-002
 3.610 4.410 -0.100 -0.057 0.998 -0.004 7.464e+000 0.997 0.057 0.046
 2.528e+000 -0.046 0.002 0.999 -2.069e-003
 4.010 4.410 -0.100 -0.101 0.995 -0.003 7.575e+000 0.994 0.101 0.042
 3.079e+000 -0.042 -0.002 0.999 -5.664e-003
 -3.990 4.810 -0.100 0.846 -0.325 -0.012 1.234e+001 0.325 0.946 0.007
 7.251e+000 0.010 -0.010 1.000 -6.774e-003
 -3.590 4.810 -0.100 0.959 -0.282 -0.026 1.166e+001 0.283 0.959 0.016
 7.013e+000 0.020 -0.022 1.000 -1.936e-002
 -3.190 4.810 -0.100 0.987 -0.145 -0.066 9.936e+000 0.149 0.988 0.050
 6.808e+000 0.058 -0.060 0.997 -5.168e-002
 -2.790 4.810 -0.100 0.619 -0.608 -0.496 7.873e+000 0.595 0.776 -0.209
 5.478e+000 0.512 -0.166 0.843 -7.534e+000
 -2.390 4.810 -0.100 -0.332 0.941 -0.066 8.910e+000 0.936 0.337 0.101
 3.147e+000 -0.118 0.028 0.993 -1.549e-001
 -1.990 4.810 -0.100 -0.517 0.856 -0.023 9.922e+000 0.855 0.517 0.038
 4.304e+000 -0.045 -0.000 0.999 -2.600e-002
 -1.590 4.810 -0.100 -0.610 0.792 -0.011 1.073e+001 0.792 0.610 0.030
 4.882e+000 -0.030 -0.009 0.999 -1.388e-002
 -1.190 4.810 -0.100 -0.669 0.743 -0.005 1.121e+001 0.743 0.669 0.026
 5.352e+000 -0.023 -0.014 1.000 -1.055e-002

2.010 5.210 -0.100 0.920 -0.390 -0.037 9.030e+000 0.389 0.921 -0.016
 4.343e+000 0.041 0.001 0.999 -3.077e-002
 2.410 5.210 -0.100 0.909 -0.409 -0.083 7.072e+000 0.408 0.913 -0.032
 4.098e+000 0.089 -0.005 0.996 -4.855e-002
 2.810 5.210 -0.100 0.780 0.622 -0.071 5.076e+000 -0.612 0.781 0.121
 4.055e+000 0.130 -0.051 0.990 -4.194e-001
 3.210 5.210 -0.100 -0.118 0.993 -0.019 8.123e+000 0.992 0.119 0.052
 3.192e+000 -0.054 0.013 0.998 -2.840e-002
 3.610 5.210 -0.100 -0.126 0.992 -0.004 7.685e+000 0.991 0.126 0.034
 3.261e+000 -0.034 -0.000 0.999 -4.259e-003
 4.010 5.210 -0.100 -0.157 0.988 -0.003 7.759e+000 0.987 0.157 0.033
 3.562e+000 -0.033 -0.002 0.999 -4.551e-003
 -3.990 5.610 -0.100 0.877 -0.480 -0.011 1.248e+001 0.480 0.877 0.020
 7.778e+000 -0.000 -0.023 1.000 -6.104e-003
 -3.590 5.610 -0.100 0.891 -0.454 -0.025 1.220e+001 0.455 0.890 0.037
 5.758e+000 0.006 -0.044 0.999 -9.716e-003
 -3.190 5.610 -0.100 0.965 -0.255 -0.064 1.089e+001 0.260 0.963 0.070
 7.275e+000 0.044 -0.084 0.996 -1.156e-001
 -2.790 5.610 -0.100 0.739 0.565 -0.366 8.983e+000 0.419 -0.812 -0.408
 4.281e+000 0.527 -0.148 0.837 -2.103e+000
 -2.390 5.610 -0.100 -0.273 0.957 -0.101 9.753e+000 0.953 0.283 0.105
 3.288e+000 -0.129 0.068 0.989 -1.954e-001
 -1.990 5.610 -0.100 -0.644 0.764 -0.024 1.181e+001 0.764 0.645 0.032
 4.341e+000 -0.040 -0.002 0.999 -3.287e-002
 -1.590 5.610 -0.100 0.726 -0.687 0.010 1.224e+001 0.687 0.726 0.022
 5.099e+000 -0.022 -0.009 1.000 -1.101e-002
 -1.190 5.610 -0.100 0.755 -0.656 0.006 1.222e+001 0.655 0.755 0.019
 5.790e+000 -0.017 -0.010 1.000 -7.420e-003
 -0.790 5.610 -0.100 0.766 -0.643 0.004 1.206e+001 0.642 0.766 0.018
 6.438e+000 -0.015 -0.011 1.000 -7.411e-003
 0.010 5.610 -0.100 0.766 -0.642 0.003 1.181e+001 0.642 0.766 0.019
 7.128e+000 -0.015 -0.012 1.000 -9.164e-003
 0.410 5.610 -0.100 0.760 -0.650 0.005 1.141e+001 0.650 0.760 0.020
 8.001e+000 -0.017 -0.012 1.000 -1.270e-002
 0.810 5.610 -0.100 0.805 -0.593 0.015 1.075e+001 0.593 0.805 0.017
 9.246e+000 -0.022 -0.005 1.000 -1.692e-002
 0.010 5.610 -0.100 0.965 0.263 0.012 1.126e+001 -0.263 0.965 -0.026
 9.071e+000 -0.018 0.022 1.000 -1.416e-002
 1.210 5.610 -0.100 0.996 0.092 -0.012 1.201e+001 -0.092 0.995 -0.032
 6.727e+000 0.009 0.033 0.999 -5.938e-003
 1.610 5.610 -0.100 0.993 -0.116 -0.022 1.079e+001 0.116 0.993 -0.013
 5.355e+000 0.023 0.011 1.000 -1.038e-002
 2.010 5.610 -0.100 0.970 -0.241 -0.034 8.967e+000 0.241 0.970 -0.002
 4.892e+000 0.034 -0.006 0.999 -2.796e-002
 2.410 5.610 -0.100 0.903 -0.424 -0.069 6.757e+000 0.425 0.905 -0.001
 4.650e+000 0.063 -0.028 0.998 -8.906e-002
 2.810 5.610 -0.100 -0.149 0.988 0.040 4.541e+000 0.986 0.151 -0.067
 2.089e+000 0.073 -0.029 0.997 -3.058e-001
 3.210 5.610 -0.100 0.062 0.998 -0.013 8.473e+000 0.998 -0.063 -0.014
 2.345e+000 0.014 0.012 1.000 2.025e-002
 3.610 5.610 -0.100 -0.088 0.996 -0.006 7.867e+000 0.996 0.088 0.030
 3.163e+000 -0.030 0.003 1.000 -6.046e-004
 4.010 5.610 -0.100 -0.173 0.985 -0.004 7.913e+000 0.984 0.173 0.031
 3.621e+000 -0.031 -0.002 1.000 -4.093e-003
 -3.990 6.010 -0.100 0.809 -0.588 -0.006 1.245e+001 0.588 0.809 0.025
 8.458e+000 -0.010 -0.023 1.000 -8.532e-003

-0.790 4.810 -0.100 0.707 -0.707 -0.001 1.145e+001 0.707 0.707 0.026
 5.753e+000 -0.018 -0.019 1.000 -1.063e-002
 -0.390 4.810 -0.100 0.732 -0.681 -0.008 1.149e+001 0.681 0.731 0.032
 6.095e+000 -0.016 -0.029 0.999 -1.467e-002
 0.010 4.810 -0.100 0.749 -0.662 -0.021 1.129e+001 0.662 0.748 0.049
 6.407e+000 -0.017 -0.050 0.999 -2.740e-002
 0.410 4.810 -0.100 0.779 -0.625 -0.056 1.059e+001 0.627 0.773 0.100
 6.861e+000 -0.019 -0.113 0.993 -1.118e-001
 0.810 4.810 -0.100 0.956 0.066 -0.287 8.203e+000 0.031 0.946 0.323
 6.898e+000 0.293 -0.318 0.902 -1.896e+000
 1.210 4.810 -0.100 -0.452 0.882 -0.137 9.276e+000 0.892 0.446 -0.070
 4.058e+000 0.001 0.154 0.988 -2.772e-001
 1.610 4.810 -0.100 0.756 -0.655 -0.001 9.651e+000 0.655 0.755 -0.028
 3.897e+000 0.019 0.020 1.000 -2.866e-002
 2.010 4.810 -0.100 0.789 -0.614 -0.028 8.087e+000 0.613 0.789 -0.036
 4.382e+000 0.044 0.011 0.999 -3.631e-002
 2.410 4.810 -0.100 0.766 -0.639 -0.069 6.191e+000 0.635 0.769 -0.068
 4.538e+000 0.097 0.009 0.995 -7.926e-002
 2.810 4.810 -0.100 -0.075 0.997 0.031 6.027e+000 0.979 0.079 -0.186
 3.254e+000 0.188 -0.017 0.982 -6.693e-002
 3.210 4.810 -0.100 -0.017 1.000 -0.013 7.677e+000 1.000 0.017 0.021
 2.136e+000 -0.021 0.013 1.000 2.114e-002
 3.610 4.810 -0.100 -0.097 0.995 -0.005 7.661e+000 0.994 0.097 0.045
 2.767e+000 -0.046 0.001 0.999 -4.666e-003
 4.010 4.810 -0.100 -0.135 0.991 -0.003 7.678e+000 0.990 0.135 0.038
 3.323e+000 -0.038 -0.002 0.999 -5.372e-003
 -3.990 5.210 -0.100 0.920 -0.392 -0.012 1.240e+001 0.392 0.920 0.013
 7.405e+000 0.006 -0.016 1.000 -5.626e-003
 5.210 5.210 -0.100 0.937 -0.348 -0.023 1.184e+001 0.349 0.937 0.025
 7.228e+000 0.013 -0.032 0.999 -1.733e-002
 -3.190 5.210 -0.100 0.992 -0.120 -0.043 1.032e+001 0.122 0.990 0.064
 7.461e+000 0.035 -0.069 0.997 -1.209e-001
 -2.790 5.210 -0.100 0.742 0.670 -0.025 1.039e+001 -0.669 0.738 -0.082
 6.318e+000 -0.036 0.078 0.996 -4.114e-002
 -2.390 5.210 -0.100 -0.577 0.814 -0.064 8.155e+000 0.817 0.576 -0.039
 5.832e+000 -0.005 0.075 0.997 -3.005e-002
 -1.990 5.210 -0.100 -0.587 0.809 -0.024 1.054e+001 0.809 0.588 0.027
 4.529e+000 -0.036 0.004 0.999 -2.354e-002
 -1.590 5.210 -0.100 -0.656 0.755 -0.011 1.144e+001 0.755 0.656 0.027
 4.937e+000 -0.028 -0.009 1.000 -1.320e-002
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 5.502e+000 -0.021 -0.013 1.000 -9.639e-003
 -0.790 5.210 -0.100 0.722 -0.692 0.002 1.185e+001 0.691 0.722 0.024
 6.047e+000 -0.018 -0.016 1.000 -9.754e-003
 -0.390 5.210 -0.100 0.727 -0.687 -0.002 1.180e+001 0.686 0.727 0.029
 6.602e+000 -0.018 -0.022 1.000 -1.337e-002
 0.010 5.210 -0.100 0.709 -0.705 -0.006 1.161e+001 0.705 0.708 0.041
 7.302e+000 -0.025 -0.033 0.999 -2.435e-002
 0.410 5.210 -0.100 -0.639 0.769 0.010 1.122e+001 0.768 0.637 0.074
 8.605e+000 -0.050 -0.055 0.997 -7.349e-002
 0.810 5.210 -0.100 0.870 0.474 0.139 1.269e+001 -0.472 0.880 -0.044
 1.039e+001 -0.144 -0.027 0.989 -4.965e-001
 1.210 5.210 -0.100 0.996 -0.089 -0.005 1.449e+001 0.088 0.998 -0.129
 5.386e+000 0.016 0.128 0.992 -6.608e-002
 1.610 5.210 -0.100 0.943 -0.332 -0.018 1.112e+001 0.331 0.943 -0.026
 4.424e+000 0.026 0.019 0.999 -1.562e-002

-3.590 6.010 -0.100 0.770 -0.638 -0.020 1.263e+001 0.638 0.768 0.053
 8.633e+000 -0.019 -0.054 0.998 -3.144e-002
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 9.595e+000 -0.047 -0.163 0.985 -2.742e-001
 -2.790 6.010 -0.100 0.450 0.701 0.554 4.997e+001 -0.889 0.289 0.356
 8.774e+000 0.090 -0.652 0.753 -3.810e+001
 -2.390 6.010 -0.100 0.802 -0.597 0.040 1.637e+001 0.598 0.800 -0.045
 1.985e+000 -0.005 0.060 0.998 -1.572e-001
 -1.990 6.010 -0.100 0.818 -0.575 0.012 1.385e+001 0.575 0.818 0.010
 4.485e+000 -0.016 -0.002 1.000 -1.515e-002
 -1.590 6.010 -0.100 0.826 -0.563 0.007 1.301e+001 0.563 0.826 0.011
 5.495e+000 -0.012 -0.005 1.000 -5.488e-003
 -1.190 6.010 -0.100 0.829 -0.560 0.006 1.254e+001 0.560 0.829 0.011
 6.182e+000 -0.011 -0.006 1.000 -4.518e-003
 -0.790 6.010 -0.100 0.831 -0.557 0.005 1.217e+001 0.557 0.831 0.010
 6.797e+000 -0.010 -0.006 1.000 -4.932e-003
 -0.390 6.010 -0.100 0.838 -0.546 0.005 1.177e+001 0.546 0.838 0.009
 7.427e+000 -0.009 -0.005 1.000 -5.747e-003
 0.010 6.010 -0.100 0.866 -0.500 0.006 1.128e+001 0.500 0.866 0.006
 8.104e+000 -0.008 -0.002 1.000 -6.507e-003
 0.410 6.010 -0.100 0.955 -0.297 0.006 1.080e+001 0.297 0.955 -0.002
 8.617e+000 -0.005 0.004 1.000 -6.404e-003
 0.810 6.010 -0.100 1.000 0.031 -0.002 1.088e+001 -0.031 0.999 -0.011
 8.111e+000 0.002 0.011 1.000 -5.416e-003
 1.210 6.010 -0.100 0.998 0.061 -0.013 1.094e+001 -0.061 0.998 -0.011
 6.831e+000 0.012 0.012 1.000 -6.137e-003
 1.610 6.010 -0.100 1.000 -0.009 -0.022 1.015e+001 0.009 1.000 -0.005
 5.816e+000 0.022 0.005 1.000 -1.056e-002
 2.010 6.010 -0.100 0.998 -0.053 -0.034 8.642e+000 0.053 0.999 0.001
 5.252e+000 0.034 -0.003 0.999 -2.507e-002
 2.410 6.010 -0.100 0.997 0.043 -0.066 6.659e+000 -0.043 0.999 0.009
 4.750e+000 0.066 -0.007 0.998 -5.421e-002
 2.810 6.010 -0.100 0.413 0.905 -0.100 5.579e+000 0.881 -0.425 -0.207
 3.678e+000 0.230 0.003 0.973 -1.513e-001
 3.210 6.010 -0.100 -0.153 0.988 -0.021 7.764e+000 0.988 0.153 0.021
 2.095e+000 -0.024 0.017 1.000 1.467e-002
 3.610 6.010 -0.100 -0.178 0.984 -0.007 8.099e+000 0.983 0.178 0.039
 7.276e+000 -0.039 0.000 0.999 -3.964e-003
 4.010 6.010 -0.100 -0.225 0.974 -0.005 8.111e+000 0.974 0.225 0.031
 3.609e+000 -0.031 -0.002 1.000 -4.454e-003
 -3.990 6.410 -0.100 0.731 -0.682 0.002 1.212e+001 0.682 0.731 0.020
 9.245e+000 -0.015 -0.013 1.000 -6.950e-003
 -3.590 6.410 -0.100 -0.587 0.809 0.001 1.243e+001 0.809 0.587 0.038
 9.920e+000 -0.030 -0.023 0.999 -2.442e-002
 -3.190 6.410 -0.100 -0.052 0.998 0.018 1.313e+001 0.996 0.050 0.069
 1.134e+001 -0.068 -0.021 0.997 -9.109e-002
 -2.790 6.410 -0.100 0.831 0.555 0.026 1.635e+001 -0.549 0.828 -0.112
 1.081e+001 -0.083 0.079 0.993 -1.662e-001
 -2.39

Joe

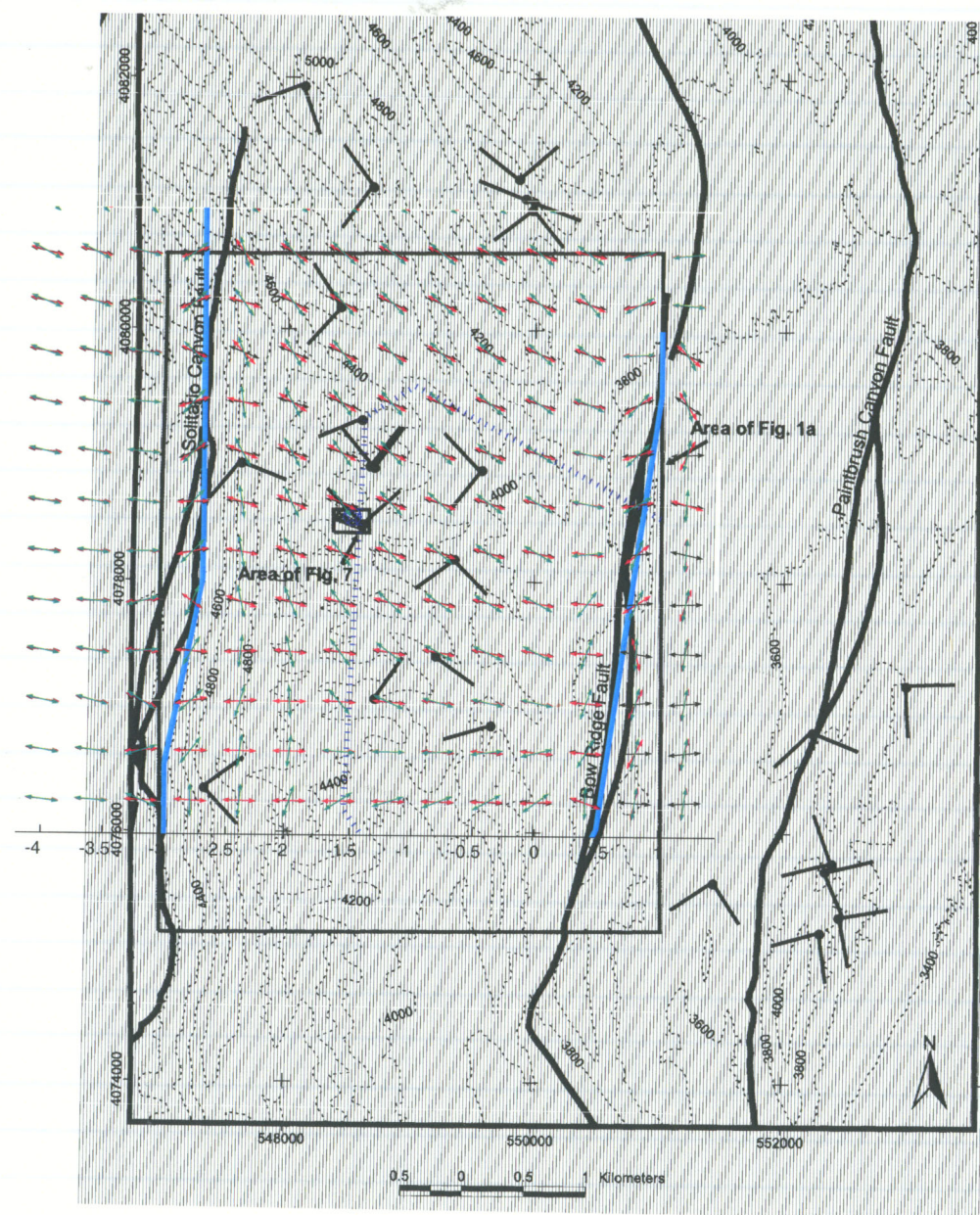
-0.790	6.410	-0.100	0.893	-0.450	0.004	1.222e+001	0.450	0.893	0.004
7.054e+000	-0.000	-0.002	1.000	-3.196e-003					
-0.390	6.410	-0.100	0.902	-0.431	0.004	1.181e+001	0.431	0.902	0.003
7.479e+000	-0.004	-0.001	1.000	-3.957e-003					
0.010	6.410	-0.100	0.932	-0.364	0.002	1.139e+001	0.364	0.932	-0.000
7.835e+000	-0.002	0.001	1.000	-4.510e-003					
0.410	6.410	-0.100	0.976	-0.218	-0.001	1.103e+001	0.218	0.976	-0.004
7.916e+000	0.002	0.004	1.000	-4.875e-003					
0.810	6.410	-0.100	0.998	-0.056	-0.007	1.085e+001	0.056	0.998	-0.006
7.464e+000	0.007	0.006	1.000	-5.483e-003					
1.210	6.410	-0.100	1.000	0.019	-0.015	1.058e+001	-0.019	1.000	-0.005
6.635e+000	0.014	0.005	1.000	-7.103e-003					
1.610	6.410	-0.100	0.999	0.043	-0.023	9.855e+000	-0.043	0.999	-0.000
5.834e+000	0.022	0.001	1.000	-1.143e-002					
2.010	6.410	-0.100	0.995	0.093	-0.036	8.566e+000	-0.093	0.996	0.009
5.217e+000	0.037	-0.006	0.999	-3.187e-002					
2.410	6.410	-0.100	0.954	0.292	-0.071	6.440e+000	-0.289	0.956	0.050
4.556e+000	0.082	-0.027	0.996	-7.385e-002					
2.810	6.410	-0.100	0.843	0.510	-0.170	7.327e+000	-0.336	0.747	0.574
3.523e-001	0.419	-0.427	0.801	-7.573e-000					
3.210	6.410	-0.100	-0.252	0.968	-0.015	7.844e+000	0.967	0.253	0.017
3.142e+000	-0.021	0.010	1.000	-1.221e-002					
3.610	6.410	-0.100	-0.259	0.966	-0.008	8.100e+000	0.965	0.259	0.032
3.211e+000	-0.033	-0.000	0.999	-3.993e-003					
4.010	6.410	-0.100	-0.291	0.957	-0.005	8.250e+000	0.956	0.291	0.029
3.741e+000	-0.030	-0.003	1.000	-4.494e-003					
-3.990	6.810	-0.100	-0.697	0.717	-0.007	1.152e+001	0.717	0.697	0.012
9.801e+000	-0.014	-0.003	1.000	-3.138e-003					
-3.590	6.810	-0.100	-0.446	0.895	-0.009	1.156e+001	0.895	0.446	0.019
1.056e+001	-0.021	-0.001	1.000	-7.541e-003					
-3.190	6.810	-0.100	0.590	0.807	0.008	1.213e+001	0.807	-0.590	0.029
1.097e+001	-0.028	0.011	1.000	-1.241e-002					
-2.790	6.810	-0.100	0.907	0.422	0.006	1.355e+001	-0.421	0.906	-0.037
9.835e+000	-0.021	0.031	0.999	-7.865e-003					
-2.390	6.810	-0.100	0.996	0.089	0.001	1.406e+001	-0.089	0.996	-0.030
8.118e+000	-0.004	0.030	1.000	1.708e-003					
-1.990	6.810	-0.100	0.990	-0.142	0.002	1.362e+001	0.142	0.990	-0.014
7.164e+000	0.000	0.014	1.000	2.507e-003					
-1.590	6.810	-0.100	0.963	-0.268	0.003	1.305e+001	0.268	0.963	-0.004
6.945e+000	-0.002	0.005	1.000	4.672e-004					
-1.190	6.810	-0.100	0.944	-0.329	0.003	1.260e+001	0.329	0.944	-0.000
7.035e+000	-0.003	0.001	1.000	-1.114e-003					
-0.790	6.810	-0.100	0.937	-0.350	0.003	1.222e+001	0.350	0.937	0.001
7.226e+000	-0.003	0.000	1.000	-2.224e-003					
-0.390	6.810	-0.100	0.942	-0.336	0.002	1.188e+001	0.336	0.942	0.000
7.419e+000	-0.002	0.001	1.000	-3.075e-003					
0.010	6.810	-0.100	0.959	-0.283	-0.000	1.155e+001	0.283	0.959	-0.002
7.521e+000	0.001	0.001	1.000	-3.789e-003					
0.410	6.810	-0.100	0.981	-0.192	-0.004	1.124e+001	0.192	0.981	-0.003
7.409e+000	0.005	0.002	1.000	-4.533e-003					
0.810	6.810	-0.100	0.996	-0.092	-0.009	1.093e+001	0.092	0.996	-0.003
6.999e+000	0.010	0.002	1.000	-5.626e-003					
1.210	6.810	-0.100	1.000	-0.016	-0.016	1.052e+001	0.016	1.000	-0.001
6.357e+000	0.016	0.001	1.000	-7.527e-003					
1.610	6.810	-0.100	0.999	0.045	-0.024	9.822e+000	-0.045	0.999	0.003
5.639e+000	0.024	-0.002	1.000	-1.224e-002					

-3.590	7.610	-0.100	0.996	0.085	0.007	1.078e+001	-0.085	0.996	-0.007
1.003e+001	-0.008	0.006	1.000	2.343e-004					
-3.190	7.610	-0.100	0.969	0.246	0.005	1.123e+001	-0.246	0.969	-0.010
9.746e+000	-0.007	0.009	1.000	5.014e-004					
-2.790	7.610	-0.100	0.982	0.191	0.003	1.171e+001	-0.191	0.982	-0.011
9.224e+000	-0.005	0.010	1.000	9.585e-004					
-2.390	7.610	-0.100	0.997	0.078	0.003	1.205e+001	-0.078	0.997	-0.010
8.632e+000	-0.003	0.010	1.000	1.197e-003					
-1.990	7.610	-0.100	0.999	-0.037	0.002	1.220e+001	0.037	0.999	-0.007
8.133e+000	-0.002	0.008	1.000	9.124e-004					
-1.590	7.610	-0.100	0.992	-0.129	0.002	1.220e+001	0.129	0.992	-0.005
7.800e+000	-0.002	0.005	1.000	2.318e-004					
-1.190	7.610	-0.100	0.981	-0.193	0.002	1.212e+001	0.193	0.981	-0.003
7.606e+000	-0.001	0.003	1.000	-5.887e-004					
-0.790	7.610	-0.100	0.974	-0.228	0.001	1.201e+001	0.228	0.974	-0.001
7.483e+000	-0.001	0.002	1.000	-1.406e-003					
-0.390	7.610	-0.100	0.971	-0.238	-0.000	1.188e+001	0.238	0.971	-0.001
7.363e+000	0.000	0.001	1.000	-2.181e-003					
0.010	7.610	-0.100	0.974	-0.225	-0.003	1.171e+001	0.225	0.974	-0.000
7.182e+000	0.003	-0.000	1.000	-2.946e-003					
0.410	7.610	-0.100	0.981	-0.192	-0.006	1.148e+001	0.192	0.981	0.001
6.891e+000	0.006	-0.002	1.000	-3.838e-003					
0.810	7.610	-0.100	0.990	-0.144	-0.011	1.117e+001	0.144	0.990	0.002
6.463e+000	0.011	-0.004	1.000	-5.172e-003					
1.210	7.610	-0.100	0.996	-0.083	-0.018	1.069e+001	0.083	0.997	0.006
5.918e+000	0.017	-0.007	1.000	-7.599e-003					
1.610	7.610	-0.100	1.000	-0.001	-0.026	9.946e+000	0.002	1.000	0.013
5.327e+000	0.026	-0.013	1.000	-1.442e-002					
2.010	7.610	-0.100	0.988	0.150	-0.042	8.748e+000	-0.148	0.988	0.036
4.801e+000	0.047	-0.029	0.998	-5.477e-002					
2.410	7.610	-0.100	0.850	0.525	-0.046	7.281e+000	-0.518	0.848	0.111
3.780e+000	0.097	-0.071	0.993	-1.201e-001					
2.810	7.610	-0.100	0.111	0.989	-0.097	7.965e+000	0.994	-0.111	0.001
5.833e+000	0.009	0.096	0.995	-1.457e-002					
3.210	7.610	-0.100	-0.350	0.937	-0.021	8.116e+000	0.936	0.350	0.023
3.684e+000	-0.029	0.012	1.000	-1.081e-002					
3.610	7.610	-0.100	-0.418	0.909	-0.011	8.640e+000	0.908	0.418	0.028
3.825e+000	-0.030	-0.002	1.000	-7.852e-003					
4.010	7.610	-0.100	-0.476	0.879	-0.007	8.864e+000	0.879	0.476	0.023
4.299e+000	-0.024	-0.005	1.000	-5.036e-003					
-3.990	8.010	-0.100	0.994	-0.111	0.005	1.056e+001	0.111	0.994	-0.004
9.565e+000	-0.005	0.005	1.000	5.495e-004					
-3.590	8.010	-0.100	0.998	0.064	0.005	1.072e+001	-0.064	0.998	-0.006
9.569e+000	-0.005	0.006	1.000	6.433e-004					
-3.190	8.010	-0.100	0.990	0.140	0.004	1.101e+001	-0.140	0.990	-0.007
9.368e+000	-0.005	0.007	1.000	7.801e-004					
-2.790	8.010	-0.100	0.993	0.117	0.003	1.133e+001	-0.117	0.993	-0.008
9.030e+000	-0.004	0.007	1.000	8.943e-004					
-2.390	8.010	-0.100	0.999	0.048	0.003	1.159e+001	-0.048	0.999	-0.007
8.644e+000	-0.003	0.007	1.000	8.574e-004					
-1.990	8.010	-0.100	0.999	-0.033	0.002	1.175e+001	0.033	0.999	-0.006
8.289e+000	-0.002	0.006	1.000	5.839e-004					
-1.590	8.010	-0.100	0.994	-0.107	0.002	1.183e+001	0.107	0.994	-0.004
8.008e+000	-0.002	0.004	1.000	9.935e-005					
-1.190	8.010	-0.100	0.986	-0.165	0.002	1.185e+001	0.165	0.986	-0.002
7.796e+000	-0.001	0.003	1.000	-5.111e-004					

Joe

2.010	6.810	-0.100	0.991	0.129	-0.040	8.774e+000	-0.129	0.992	0.012
4.897e+000	0.041	-0.007	0.999	-3.217e-002					
2.410	6.810	-0.100	0.947	0.307	-0.089	7.339e+000	-0.303	0.951	0.062
4.116e+000	0.104	-0.032	0.994	-1.407e-001					
2.810	6.810	-0.100	0.024	0.999	-0.045	6.438e+000	0.993	-0.029	-0.118
3.907e+000	0.119	0.041	0.992	4.138e-002					
3.210	6.810	-0.100	-0.158	0.987	-0.023	7.809e+000	0.987	0.159	0.017
3.242e+000	-0.021	0.020	1.000	5.954e-003					
3.610	6.810	-0.100	-0.290	0.957	-0.010	8.179e+000	0.957	0.290	0.030
3.463e+000	-0.032	0.001	0.999	-4.867e-003					
4.010	6.810	-0.100	-0.348	0.937	-0.006	8.399e+000	0.937	0.348	0.027
3.927e+000	-0.028	-0.004	1.000	-4.666e-003					
-3.990	7.210	-0.100	0.788	-0.616	0.009	1.095e+001	0.616	0.788	0.004
1.002e+001	-0.010	0.003	1.000	-7.827e-004					
-3.590	7.210	-0.100	0.962	-0.274	0.013	1.080e+001	0.274	0.962	-0.002
1.065e+001									

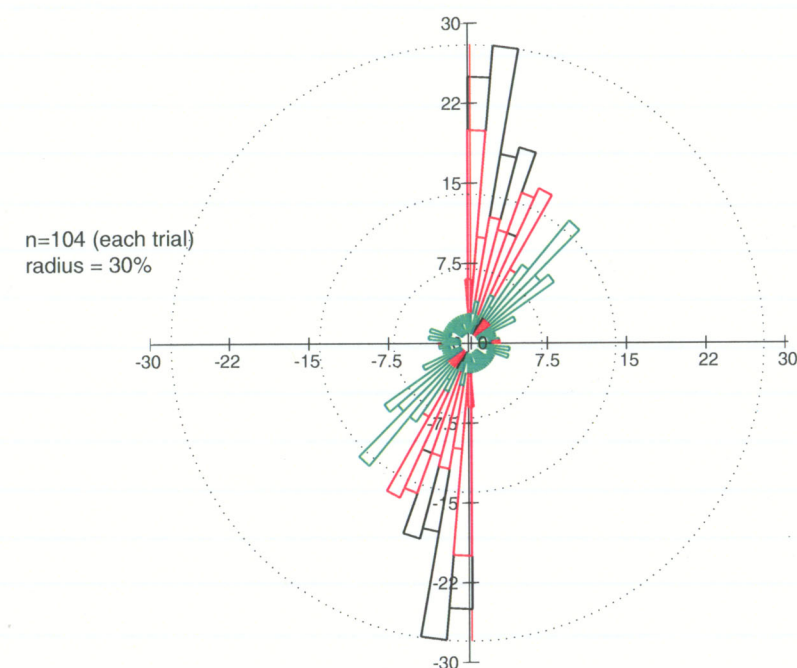
JEC



Summary diagram compares predicted
joint orientations from models (see key p. 269)
to observed joints from Throckmorton + Verbeek map.

JEC

Predicted joint orientations for various remote stress boundary conditions
(Compare to old Fig. 8).
Orientations taken from model region centered on Live Yucca Ridge, between
Solitario Canyon Fault and Bow Ridge Fault and 2 km north and south of LYR study site.



Parametric tests: boundary conditions
black: E-W $S_h = 10$ MPa less than lithostatic (same as old Fig. 10)
red: E-W $S_h = 10$ MPa less than lithostatic, N-S $S_h = 4$ MPa less than lithostatic.
(Stock et al modern stresses)
green: E-W $S_h = 10$ MPa less than lithostatic, N-S $S_h = 8$ MPa less than lithostatic.
(same as old Fig. 11)

Response to reviewer comments (to incorporate into letter to editor)

JGC 10 April 03

Engelder comments

#7 In the revised models, faults have constant dip down to a depth of approx. 4 km. This is consistent with observations reported by [REFERENCES HERE from David/Alan], as is now cited in the ms.

#8 The stress field rotation produced by faulting necessarily involves the entire crustal volume that contains the slipping faults. Thus, we model the entire volume. We assume that the tuff is coupled to the rock below and will deform in response to stresses in the rock volume. There are no lateral boundaries to the model (semi-infinite half space). The end of the faults shown in the Fig. 9 represent a simplified approximation of the extent of the faults during the Miocene.

#9 Of course, the modern stress values do not represent Miocene stress values, but they do represent reasonable geologic values for the same rock types and structural setting. The modern values are used as a reasonable starting point for the modeling. Because we do not attempt to match slip amount or stress magnitudes, the actual values are not important. The orientation of the horizontal principal stresses is controlled by the ratios among the applied remote stresses. Several different model results are presented in the data repository supplement to illustrate the influence of the changing ratio.

#10, 11 A stress-depth graph has been added to Fig. 9. It is a limitation of the boundary element approach that applied remote stresses are constant. Consequently, in the model, the horizontal and vertical stresses increase with the same gradient. This may not be realistic – but we are not examining results at varying depths, we examine stress perturbations on a single horizontal plane. Thus changing ratios of horizontal and vertical stresses should not influence this analysis.

#12, 13 Faults are frictionless and slip with a complete stress drop when loaded. This is now more explicit in the text. The tiplines of the faults are fixed and so may limit the amount of slip on the faults. The elliptical dip-slip distributions produced on the faults (data repository supplement) are expected for faults in an elastic medium and show that the fault geometry does not inhibit a complete stress drop.

#14, 15 Addressed by revision of Fig. 10

#16 Addressed by addition of depth-varying results in the data repository supplement.

Potter comments

#1 Model faults have been revised to reproduce the mapped surface traces of the faults. The new model more accurately represents the strikes (and variations in strike) of the faults. Notably, this increase in complexity has not changed the general results of the model.

#2 Intra-block faults are not included in the model. If these faults slipped during cooling of the Tiva Canyon Tuff, we would expect them to exert a very local influence on the stress directions. They would not influence the overall pattern of stress perturbations produced by the larger faults, which is the object of our analysis.

Taylor comments

(Modeling)

Additional description of the numerical code has been added, as have a number of additional references to papers in which the code has been tested and used to evaluate the mechanics of normal faulting. The code solves the fundamental equations of elasticity, which are reproduced in geology, geophysics, and engineering textbooks available in every university library. The code is a numerical approximation of analytical solutions to these equations, as complete analytical solutions are not available in three dimensions. Presentation of these cumbersome equations in the ms. – which is about the origin of unique tube-bearing joints, not about computational methods in geomechanics – seems tangential to the study and reproduces previously published work. We have added some additional references about the boundary element method and the polygonal-element approach, as well as a reference that tests the numerical approximation used in the code.

We have supplied [will supply! –jgc] an electronic supplement for the GSAB data repository that illustrates model solutions for a range of values in material properties, depth of observation, and regional stress magnitudes. Since modeling is not the primary focus of the ms., the data repository appears to be the appropriate location for these supplemental materials.

JCE

A final philosophical note about the modeling: The boundary element approach is a tool which by its nature cannot reproduce the full complexity of the geologic environment – and we do not seek to do so in this manuscript. Indeed, a model as complex as the Earth would be at least as difficult to understand! We use the model as a tool to evaluate the plausibility of an idea: that slip on faults in the vicinity of Yucca Mountain could have perturbed the stress field sufficiently to influence the orientation of observed joints. We find that the mechanism is plausible. We do not claim to have reproduced the Miocene stress state or to generate an exact match to the observed joint orientations. We have revised the text in to emphasize this use of the model.

JCE

JCE

NORMAL FAULTING AND PERTURBATION OF THE REGIONAL STRESS FIELD

Information potentially subject to copyright protection was redacted from pages 273 through 275 of this scientific notebook. The redacted material is from the reference listed on page 83 of this scientific notebook.

for

GC

GC

Information potentially subject to copyright protection was redacted from pages 276 through 279 of this scientific report. The redacted material (figures 9 and 10) is from the references listed on page 279 of this scientific report.

Joe

Joe

Joe

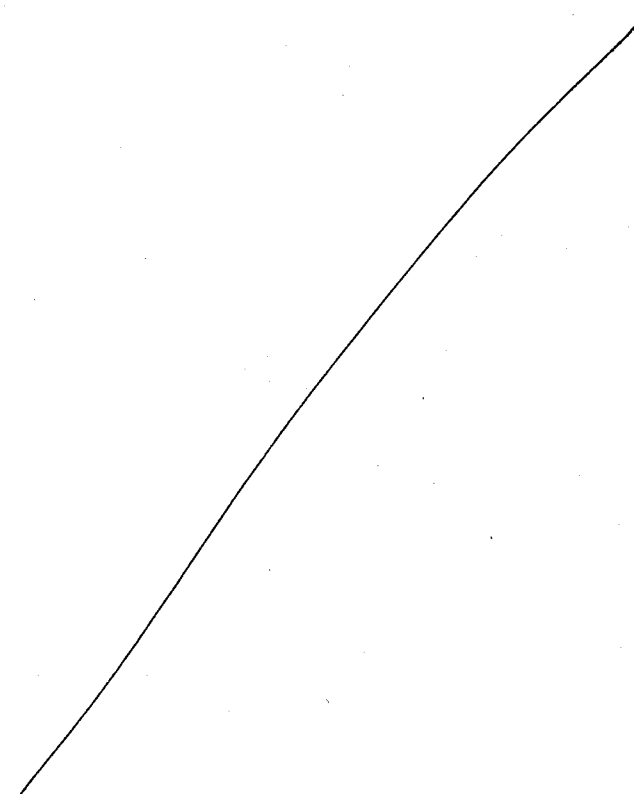
Electronic Data Repository supplement to:

**Orthogonal jointing during coeval igneous degassing and normal faulting,
Yucca Mountain, Nevada**

W. M. Dunne, D. A. Ferrill, J. G. Crider, B. E. Hill, D. J. Waiting, P. C. La Femina,
A. P. Morris, R. W. Fedors

Geological Society of America Bulletin (2003)

Data Repository supplement prepared by J. G. Crider.



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Information potentially subject to copyright protection was reacted from pages 280 through 286 of this scientific notebook. The redacted material (Figures DR1 through DR7) is from the references listed on page 287 of this scientific notebook.

Joe

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Acknowledgements: Stress trajectories and slip distributions were calculated using Poly3D, a three-dimensional boundary element numerical model by Thomas (1993). These results were produced by Poly3d.c (beta), available from the Stanford University Rock Fracture Project (<http://pangea.stanford.edu/geomech>). Figures DR1a, DR2, DR3, and DR7a were produced using Poly3dGUI, also available from the Stanford Rock Fracture Project. Trajectory plots and rose diagrams were produced using MATLAB (The Mathworks, Inc.). Rose diagrams were generated using a routine modified from Middleton (1999).

Cited references:

- Day, W.C., Dickerson, R.P., Potter, C.J., Sweetkind, D.S., San Juan, C.A., Drake, II, R.M., and Fridrich, C.J., 1998, Geologic map of the Yucca Mountain Area, Nye County, Nevada: United States Geological Survey, Geological Investigations Series I-2627, Scale 1:24,000, 1 sheet.
- Middleton, G.V., 1999, Data analysis in the Earth Sciences using MATLAB. Prentice Hall, 260 pp.
- Thomas, A.L., 1993, Poly3D: A three-dimensional, polygonal-element, displacement discontinuity boundary element computer program with applications to fractures, faults and cavities in Earth's crust [M.S. thesis], Stanford, CA, Stanford University.

Joe

Work completed
April 2005
Joe

I have reviewed scientific notebook 466 and find it in compliance with QAP-001. There is sufficient information regarding procedure used for conducting the research and acquiring and analyzing the data so that another qualified scientist could repeat the activity or activities recorded in this scientific notebook. The work on this task has ended and this scientific notebook can be archived.

H. Lawrence McKague

12/02/03

H. Lawrence McKague
GLGP Element Manager

12/02/03
Juliet Crider

Larry McKague

From: David Ferrill [dferrill@cnwra.swri.edu]
Sent: Thursday, December 04, 2003 11:11 AM
To: 'Juliet Crider'
Cc: Lawrence McKague
Subject: RE: Updating your Scientific Notebook

Juliet,

Thanks for the response. We will go ahead and close the notebook out. If you decide you would like a copy in the future, we should be able to supply it. The notebook will be kept in our fire-safe vault. It will eventually be scanned and electronically available on our licensing support network.

Are you going to be at AGU next week? If so, I look forward to seeing you there.

David

David A. Ferrill
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6220 Culebra Rd.
San Antonio, Texas 78238-5166
Tel: 210 522-6082
Fax: 210 522-5155
e-mail: dferrill@swri.edu

-----Original Message-----

From: Juliet Crider [mailto:criderj@cc.wvu.edu]
Sent: Thursday, December 04, 2003 10:46 AM
To: David Ferrill
Subject: RE: Updating your Scientific Notebook

Thanks, David. Go ahead and close the notebook. I don't need a copy.

It's been fun.

cheers,

-- Juliet

.....
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Assistant Professor

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