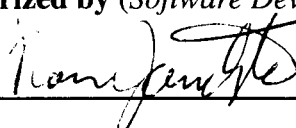
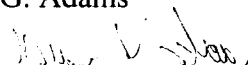
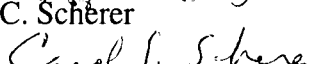
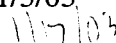
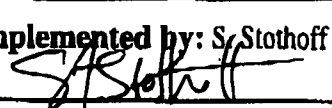


## SOFTWARE CHANGE REPORT (SCR)

<b>SCR No. (Software Developer Assigns):</b> PA-SCR-390	<b>Software Title and Version:</b> TPA 4.3a	<b>/Project No:</b> 20-1402-762
<b>Affected Software Module(s), Description of Problem(s):</b> itym.f, itym.i, init_itym.f, and estimator.f  <b>C1</b> Runoff effect on shallow infiltration  The UZFLOW module presently incorporates data from one-dimensional simulations. Runoff and runon are not included in the one-dimensional model. Watershed simulations will provide abstractions to the ITYM code for the amounts and locations where additional water from runon leads to increased shallow infiltration. These simulations will be implemented in the ITYM preprocessor as an adjustment of precipitation amount for pixels identified by an external file. The new external file will identify geomorphic categories of pixels. Equations will be included in the ITYM preprocessor that identify the amount of additional water available for each particular geomorphic category. The equations will be a function of upslope length and cumulative soil depths. This change does not affect the current format of the <i>maidtbl.dat</i> or the <i>climato2.dat</i> files.		
<b>Change Requested by:</b> R. Janetzke Date: 1-14-02	<b>Change Authorized by (Software Developer):</b> R. Janetzke Date: 1-14-02 	
<b>Description of Change(s) or Problem Resolution (If changes not implemented, please justify):</b>  The ITYM preprocessor was updated to optionally retrieve information from two new DEM files ( <i>careadem.dat</i> and <i>cdepdem.dat</i> ) for runon calculations.		
<b>Implemented by:</b> S. Stothoff	<b>Date:</b> 9-13-03	
<b>Description of Acceptance Tests:</b>  See attachments Test Plan for TPA SCR#390 and Test Results for TPA SCR#390.		
<b>Tested by:</b> G. Adams  C. Scherer 	<b>Date:</b> 1/3/03  1/10/03	

**SOFTWARE CHANGE REPORT (SCR)**

<b>SCR No. (Software Developer Assigns):</b> PA-SCR-390	<b>Software Title and Version:</b> TPA 4.3a	<b>/Project No:</b> 20-1402-762
<b>Affected Software Module(s), Description of Problem(s):</b> itym.f, itym.i, init_itym.f, and estimator.f  <b>C1</b> Runoff effect on shallow infiltration  <p>The UZFLOW module presently incorporates data from one-dimensional simulations. Runoff and runon are not included in the one-dimensional model. Watershed simulations will provide abstractions to the ITYM code for the amounts and locations where additional water from runon leads to increased shallow infiltration. These simulations will be implemented in the ITYM preprocessor as an adjustment of precipitation amount for pixels identified by an external file. The new external file will identify geomorphic categories of pixels. Equations will be included in the ITYM preprocessor that identify the amount of additional water available for each particular geomorphic category. The equations will be a function of upslope length and cumulative soil depths. This change does not affect the current format of the <i>maidtbl.dat</i> or the <i>climato2.dat</i> files.</p>		
<b>Change Requested by:</b> R. Janetzke Date: 1-14-02	<b>Change Authorized by (Software Developer):</b> R. Janetzke Date: 1-14-02	
<b>Description of Change(s) or Problem Resolution (If changes not implemented, please justify):</b>  <p>The ITYM preprocessor was updated to optionally retrieve information from two new DEM files (careadem.dat and cdepdem.dat) for runon calculations.</p>		
<b>Implemented by:</b> S. Stothoff 	<b>Date:</b> 9-13-02	
<b>Description of Acceptance Tests:</b>  <p>See attachments Test Plan for TPA SCR#390 and Test Results for TPA SCR#390.</p>		
<b>Tested by:</b> G. Adams  C. Scherer	<b>Date:</b> 1/3/03  1/10/03	

# Test Plan for TPA SCR# 390

**Test Plan Name:** C1 Runoff effect on shallow infiltration

**Tested By:** Carol S. Scherer

**Date:** November 1, 2002

**Host Machine:** SUN Ultra-4 Server: spock

**Host OS:** Solaris 5.8

**Baseline Version:** 4.2u

**Test Version:** 5.0beta

## Process Level Tests

The process level test in this section is designed to verify the following:

1. Runon occurs in expected areas of the repository.
2. Shallow infiltration increases in areas where runon occurs.

### PL-1 Comparison of Shallow Infiltration with and without Runon

#### 1.0 Path for Run Directory

\$HOME = /net/spock/home/cscherer

<<Run Directory>> = \$HOME/tpatest/scr390/pltest

#### 2.0 Path for Archived Results

<<Run Directory>>/pl-1

#### 3.0 Environment Variables

TPA\_TEST = \$HOME/tpatest/scr390

TPA\_DATA = \$HOME/tpatest/scr390

#### 4.0 Special Input Files or Modifications to Input Files Required

4.1 The version 5.0beta version of the file, "itym.dat" is required. Ensure that the parameters in this file are set as follows for Test Case A:

**Table 1. ITYM.DAT Test Case A**

<b>Parameter</b>	<b>Value</b>
num_realize_per_table	500
num_MAP_table	3
num_MAT_table	3
MAP_min	152.8
MAP_max	172.8
MAT_min	15.38
MAT_max	19.38
do_MAI_DTBL	1
num_pixel_merge	1

4.2 For Test Case B, comment out zCareaDEM and zCdepDEM. Make these additional changes by modifying itym.dat as shown in Table 2:

**Table 2. ITYM.DAT Test Case B**

<b>Parameter</b>	<b>Value</b>
zCareaDEM	#zCareaDEM
zCdepDEM	#zCdepDEM

5.0 Special Diagnostic Code Modifications Required: None

6.0 Program Modes to be Used

6.1 Test Case A generates output for the runon; whereas, Test Case B generates output without runon.

## 7.0 Utility Program Needed to Perform the Test

7.1 The utility program “extract-difference,” will be required for this test. This code takes maidthbl.dat values from files maidthbl-A.dat and maidthbl-B.dat and generates an equivalent file containing the difference between mean annual infiltration with and without runon. For this program to run, the following files must be present: maidthbl-extA.dat, maidthbl-extB.dat, and subareas.dat. The file maidthbl-extA.dat is built from the maidthbl-A.dat file with the current climate extracted. The file maidthbl-extB.dat is built from the maidthbl-B.dat file with the current climate extracted. (Delete everything in the file except for the header and the current climate section. The current climate has VAR1 = 162.5 and VAR2 = 17.4.) The file subareas.dat, also required, is built from the tpa.inp file with the number and location of subareas extracted. It has the following format:

```
edaii 1-cw
547514.88 4079310.61
548069.20 4079136.50
547847.30 4077816.20
547370.95 4077922.04
547514.88 4079310.61
edaii 2-cw
548069.20 4079136.50
548569.32 4078981.00
548504.06 4077664.24
547847.30 4077816.20
548069.20 4079136.50
edaii 3-cw
547370.95 4077922.04
547847.30 4077816.20
548322.70 4077192.20
547474.70 4077281.60
547370.95 4077922.04
edaii 4-cw
547847.30 4077816.20
548504.06 4077664.24
548479.71 4077173.06
548322.70 4077192.20
547847.30 4077816.20
edaii 5-cw
547474.70 4077282.60
547887.30 4077238.10
547897.79 4076045.46
547655.97 4076123.07
547474.70 4077282.60
edaii 6-c
547887.30 4077238.10
548322.70 4077192.20
```

```

548155.70 4075962.63
547897.79 4076045.46
547887.30 4077238.10
edaii 7-cw
548322.70 4077192.20
548479.71 4077173.06
548455.00 4076674.51
548155.70 4075962.63
548322.70 4077192.20
edaii 8-cw
547645.27 4079656.06
548588.98 4079377.55
548569.32 4078981.00
547514.88 4079310.61
547645.27 4079656.06
edaii 9-cw
547732.82 4080960.00
548251.91 4080817.50
548116.89 4079516.81
547645.27 4079656.06
547732.82 4080960.00
edaii 10-cw
548251.91 4080817.50
548664.55 4080675.00
548588.98 4079377.55
548116.89 4079516.81
548251.91 4080817.50

```

## 8.0 Test Description

8.1 Objective: This test verifies that runon occurs in expected areas of the repository and that shallow infiltration increases in areas where runon occurs.

8.2 Assumptions: none

8.3 Constraints: none

8.4 Output Files: maidtbl-A.dat, maydtbl-A.dat, smaydtbl-A.dat, maidtbl-B.dat, maydtbl-B.dat, smaydtbl-B.dat, summary.dat, maidtbl-diff.dat.

8.5 Procedure:

1. For Test Case A, invoke the ITYM preprocessor at the command prompt from <<Run Directory>> by typing itym.e > itym-A.out &.
2. Verify the code executes to completion without aborting.

3. Rename maidtbl.dat, maydtbl.dat, and smaydtbl.dat to maidtbl-A.dat, maydtbl-A.dat, and smaydtbl-A.dat, respectively.
4. Setup the itym.dat file in accordance with Section 4.2 (Test Case B).
5. Invoke the ITYM preprocessor at the command prompt from <<Run Directory>> by typing itym.e > itym-B.out &.
6. Verify the code executes to completion without aborting.
7. Rename maidtbl.dat, maydtbl.dat, and smaydtbl.dat to maidtbl-B.dat, maydtbl-B.dat, and smaydtbl-B.dat, respectively.
8. Extract the current climate (see section 7.1) from file maidtbl-A.dat and place it in a file labeled maidtbl-extA.dat. Extract the current climate from file maidtbl-B.dat and place it in a file labeled maidtbl-extB.dat. (The current climate has VAR1 = 162.5 and VAR2 = 17.4.)
9. At the command prompt from <<Run Directory>>, type the following:  
"extract\_difference.e."
10. The file summary.dat will be generated containing the average and standard deviation for the differences in mean annual infiltration across the repository. The file maidtbl-diff.dat will be created containing the differences in mean annual infiltration at each coordinate across the repository. Plot the differences in mean annual infiltration for each subarea at the current climate and verify that runon occurs in expected areas of the repository and that shallow infiltration increases in areas where runon occurs.

8.6 Pass/Fail Criteria: Runon occurs in expected areas of the repository and shallow infiltration increases in areas where runon occurs.

## 9.0 Test Results

9.1 Output and Supporting Files: Files and executables for the ITYM preprocessor shall be archived in directory <<Run Directory>>.

9.2 Criterion 1: When the difference in average infiltration with and without runon is overlaid on a map of the repository, runon occurs in low-lying areas of the repository. In addition, in these low-lying areas, the shallow infiltration increases as expected.

## 9.3 Overall Test Status:

This test successfully **PASSED** the criterion above.

## System Level Tests

The system level test in this section is designed to verify that mean annual infiltration increases in areas of the repository where runon occurs.

### SL-1 Comparison of Shallow Infiltration with and without Runon

#### 1.0 Path for Run Directory

\$HOME = /net/spock/home/cscherer

<<Run Directory>> = \$HOME/tpatest/scr390/sltest

#### 2.0 Path for Archived Results

<<Run Directory>>/sl-1

#### 3.0 Environment Variables

TPA\_TEST = \$HOME/tpatest/scr390

TPA\_DATA = \$HOME/tpatest/scr390

### 4.0 Special Input Files or Modifications to Input Files Required

4.1 The mean tpa.inp data case is used from the 5.0beta baseline distribution with the following modification (see Table 3):

**Table 3. TPA.INP Modifications**

Parameter	Value
OutputMode	1

4.2 The maydtbl.dat and smaydtbl.dat files are generated during this test. For test Case A, generate the maydtbl.dat and smaydtbl.dat files using the ITYM preprocessor with the 5.0 beta distribution itym.dat file. This file has the following parameters in itym.dat should be set as shown in Table 4:



**Table 4. ITYM.DAT Test Case A**

Parameter	Value
num_realize_per_table	500
num_MAP_table	4
num_MAT_table	4
MAP_min	100
MAP_max	800
MAT_min	0
MAT_max	22
num_pixel_merge	1
do_MAI_DTBL	1

4.3 For Test Case B, comment out zCareaDEM and zCdepDEM. Make these additional changes by modifying itym.dat as follows (see Table 5):

**Table 5. ITYM.DAT Test Case B**

Parameter	Value
zCareaDEM	#zCareaDEM
zCdepDEM	#zCdepDEM

5.0 Special Diagnostic Code Modifications Required: None

6.0 Program Modes to be Used

6.1 UZFLOW sample mode 1 will be used in accordance with the baseline 5.0Beta distribution.

## 7.0 Utility Program Needed to Perform the Test

7.1 The ITYM preprocessor is required for this test. This preprocessor generates Digital Elevation Model (DEM) Tables (DTBL) for Mean Annual Infiltration (MAI),  $\log_{10}(\text{MAI})$ , and  $\text{stdev}(\log_{10}(\text{MAI}))$ . In Test Case A, the tables are created with runon; however, for Test Case B, they're created without runon. The files maydtbl.dat and smaydtbl.dat from both test cases are required for this test.

## 8.0 Test Description

8.1 Objective: This test verifies that for the current climate, mean annual infiltration increases in areas of the repository where runon occurs. In addition, this test verifies that mean annual infiltration is reasonable across the repository at the end of the analysis period.

8.2 Assumptions: none

8.3 Constraints: none

8.4 Output Files: uzflow.rlt and uzflow.ech

8.5 Procedure:

1. For Test Case A, invoke the ITYM preprocessor at the command prompt from <<Run Directory>> by typing `itym.e > itym-A.out &`.
2. Verify the code executes to completion without aborting.
3. Rename `maidtbl.dat`, `maydtbl.dat`, and `smaydtbl.dat` to `maidtbl-A.dat`, `maydtbl-A.dat`, and `smaydtbl-A.dat`, respectively.
4. Copy the files, "`maydtbl-A.dat`" and "`smaydtbl-A.dat`" to "`maydtbl.dat`" and "`smaydtbl.dat`" and place these files in the <<TPA\_DATA>>/DATA directory.

5. At the command prompt from <<Run Directory TPA>>, type the following: “tpa.e > SL1-A.out.” The screen output will be captured to a file labeled, SL1-A.out.

6. Verify that the TPA code executes to completion without aborting.

7. Rename uzflow.rlt, uzflow.ech, and infilper.res to uzflow-A.rlt, uzflow-A.ech, and infilper-A.res, respectively.

8. For Test Case B, invoke the ITYM preprocessor at the command prompt from <<Run Directory>> by typing itym.e > itym-B.out &.

9. Verify the code executes to completion without aborting.

10. Rename maidtbl.dat, maydtbl.dat, and smaydtbl.dat to maidtbl-B.dat, maydtbl-B.dat, and smaydtbl-B.dat, respectively.

11. Copy the files, “maydtbl-B.dat” and smaydtbl-B.dat” to “maydtbl.dat” and “smaydtbl.dat” and place these files in the <<TPA\_DATA>>/DATA directory.

12. At the command prompt from <<Run Directory>>, type the following: “tpa.e > SL1-B.out.” The screen output will be captured to a file labeled, SL1-B.out.

13. Verify that the TPA code executes to completion without aborting.

14. Rename uzflow.rlt, uzflow.ech, and infilper.res to uzflow-B.rlt, uzflow-B.ech, and infilper-B.res, respectively.

15. Upon completion, compare the average infiltration values from uzflow-A.rlt and uzflow-B.rlt and verify that runon occurs in expected areas of the repository and that mean annual infiltration increases in areas where runon occurs. Compare values for the current climate. In addition, compare values at the end of simulation and verify the results are reasonable.

**8.6 Pass/Fail Criteria:** The TPA code executes without aborting. Runon occurs in expected areas of the repository and mean annual infiltration increases as expected in areas of the repository where runon occurs.

## 9.0 Test Results

9.1 Output and Supporting Files: Files and executables for the TPA execution shall be archived in directory <<Run Directory>>.

9.2 Criterion 1: At the current climate, mean annual infiltration increases in areas of the repository where runoff occurs.

9.3 Criterion 2: At end of simulation, mean annual infiltration is reasonable across the repository.

### 9.4 Overall Test Status:

This test successfully **PASSED** the criterion above.

**NOTE:** Independent verification of the test results was provided by a subject matter expert. His report (*Test Results for TPA SCR # 390*, January 3, 2003) and a CD containing the results are attached.

# Test Results for TPA SCR # 390

**Test Plan Name:** C1 Runoff effect on shallow infiltration

**Test Results Summarized By:** Randy Fedors, George Adams

**Date:** January 3, 2003

**Host Machine:** SUN Ultra-4 Server: spock

**Host OS:** Solaris 5.8

**Baseline Version:** 4.2u

**Test Version:** 5.0Beta

## Process Level Tests

The process level test in this section is designed to verify the following:

1. Runon occurs in expected areas of the repository.
2. Shallow infiltration increases in areas where runon occurs.

## PL-1 Comparison of Shallow Infiltration with and without Runon

This test verifies that runon occurs in expected areas of the repository and that shallow infiltration increases in areas where runon occurs.

### 1.0 Test Results

1.1 Output and Supporting Files: Files will be archived on a CD labeled, "Test Results for TPA SCR #390."

1.2 Criterion 1: When the difference in average infiltration with and without runon is overlaid on a map of the repository, runon occurs in low-lying areas of the repository. In addition, in these low-lying areas, the shallow infiltration increases as expected.

### 1.3 Overall Test Status:

This test successfully **PASSED** the criterion above for test PL-1.

From the figure, it is clear that runoff occurs in channels and the lower portions of steep slopes as expected. The largest values of runoff occur in the biggest washes as expected. In general, the distribution and magnitudes of runoff displayed in the figure appear reasonable.



## System Level Tests

The system level test in this section is designed to verify that mean annual infiltration increases in areas of the repository where runon occurs.

### SL-1 Comparison of Shallow Infiltration with and without Runon

This test verifies that for the current climate, mean annual infiltration increases in areas of the repository where runon occurs. In addition, this test verifies that mean annual infiltration is reasonable across the repository at the end of the analysis period.

#### 1.0 Test Results

1.1 Output and Supporting Files: Files will be archived on a CD labeled, "Test Results for TPA SCR #390."

1.2 Criterion 1: At the current climate, mean annual infiltration increases in areas of the repository where runon occurs

1.3 Criterion 2: At end of simulation, mean annual infiltration is reasonable across the repository.

#### 1.4 Overall Test Status:

This test successfully **PASSED** the criterion above for test SL-1

At the end of simulation, 100,000 years, the Mean Annual Infiltration (MAI) is reasonable across the repository. It is less than the mean annual infiltration for the current climate as expected and individual subareas maintain the same rankings in terms of MAI from the current climate.

In addition, MAI increases in areas of the repository where runon occurs as described below:

Subareas 9 & 10 do show the greatest increase in runon-based net infiltration of all the subareas. This was expected because Drill Hole Wash and Tea Cup Wash both cross subareas 9 & 10. These washes are prominent areas of runon because of their large upslope contributions of runoff.

Subarea 7 has less prominent increase in net infiltration as caused by runon compared to the other subareas. This also seems reasonable because subarea 7 is located to the east; i.e., it's area is dominated by lower portions of east-flanking washes, other subareas have a mixture of Yucca crest and lower and upper wash portions. Note that the small east-flank washes have less upslope contribution as compared to Drill Hole and Tea Cup Washes.

Subareas 2, 4, & 6 have the next highest portion of lower wash, and accordingly have the next least amount of change when runoff and runon are considered.

The difference between MAI with and without runon (With Runon minus Without Runon) is summarized in the table below:

	Difference Between MAI with Runon and MAI without Runon		
Subarea	Time = 0 years	Time = 10,000 years	Time = 100,000 years
1	-0.1850	-0.4326	-0.1794
2	-0.0273	-0.0497	-0.0269
3	-0.1601	-0.3784	-0.1555
4	-0.0332	-0.0684	-0.0328
5	-0.1562	-0.3702	-0.1515
6	-0.0487	-0.1057	-0.0475
7	-0.0042	0.0061	-0.0044
8	-0.0900	-0.1995	-0.0874
9	0.2178	0.6114	0.2094
10	0.3362	0.8882	0.3245



scr390:

total 10721

drwxr-xr-x	10	cscherer	sunuser	3584	Dec	23	11:14	.
drwxr-xr-x	34	cscherer	sunuser	6144	Jan	10	11:48	..
-rwxr-xr-x	1	cscherer	sunuser	2001	Sep	18	16:52	CLEANUP
-rw-r--r--	1	cscherer	sunuser	869	Sep	6	12:08	Makefile
-rw-r--r--	1	cscherer	sunuser	29502	Feb	15	2002	array.f
-rw-r--r--	1	cscherer	sunuser	49560	Dec	23	11:10	array.o
-rw-r--r--	1	cscherer	sunuser	20601	Sep	11	13:41	ashplumo.f
-rw-r--r--	1	cscherer	sunuser	39204	Dec	23	11:10	ashplumo.o
-rw-r--r--	1	cscherer	sunuser	37612	Sep	13	12:12	ashrmovo.f
-rw-r--r--	1	cscherer	sunuser	45616	Dec	23	11:10	ashrmovo.o
drwxr-xr-x	2	cscherer	sunuser	512	Oct	25	13:48	ccdf
-rwxrwxrwx	1	cscherer	sunuser	142	Oct	25	14:40	ch_env
drwxr-xr-x	4	cscherer	sunuser	1024	Dec	23	11:16	codes
-rw-r--r--	1	cscherer	sunuser	608	Sep	20	20:44	coefkdeq.i
-rw-r--r--	1	cscherer	sunuser	10207	Feb	15	2002	condxyz.f
-rw-r--r--	1	cscherer	sunuser	3276	Dec	23	11:14	condxyzt.o
drwxr-xr-x	2	cscherer	sunuser	1536	Nov	1	08:58	data
-rw-r--r--	1	cscherer	sunuser	115312	Sep	13	10:23	dcags.f
-rw-r--r--	1	cscherer	sunuser	240376	Dec	23	11:11	dcags.o
-rw-r--r--	1	cscherer	sunuser	155845	Sep	25	13:26	dcagw.f
-rw-r--r--	1	cscherer	sunuser	328776	Dec	23	11:11	dcagw.o
drwxr-xr-x	3	cscherer	sunuser	512	Jan	10	11:46	docs
-rw-r--r--	1	cscherer	sunuser	190	Sep	20	09:32	driftsa.i
-rw-r--r--	1	cscherer	sunuser	23141	Aug	28	10:26	dsfail.f
-rw-r--r--	1	cscherer	sunuser	24796	Dec	23	11:11	dsfail.o
-rw-r--r--	1	cscherer	sunuser	48674	Sep	4	19:25	ebsfail.f
-rw-r--r--	1	cscherer	sunuser	108096	Dec	23	11:12	ebsfail.o
-rw-r--r--	1	cscherer	sunuser	77369	Sep	25	15:06	ebsrel.f
-rw-r--r--	1	cscherer	sunuser	200668	Dec	23	11:12	ebsrel.o
-rw-r--r--	1	cscherer	sunuser	149	Sep	25	12:15	ebsrell.i
-rw-r--r--	1	cscherer	sunuser	349787	Sep	27	15:21	exec.f
-rw-r--r--	1	cscherer	sunuser	941576	Dec	23	11:14	exec.o
-rw-r--r--	1	cscherer	sunuser	2385	Sep	21	10:07	execa.i
-rw-r--r--	1	cscherer	sunuser	486	Sep	3	1997	execb.i
-rw-r--r--	1	cscherer	sunuser	269	May	29	2002	execc.i
-rw-r--r--	1	cscherer	sunuser	8503	Feb	15	2002	faulto.f
-rw-r--r--	1	cscherer	sunuser	10540	Dec	23	11:12	faulto.o
-rw-r--r--	1	cscherer	sunuser	6599	May	29	2002	fileunit.f
-rw-r--r--	1	cscherer	sunuser	8736	Dec	23	11:14	fileunit.o
-rw-r--r--	1	cscherer	sunuser	5784	Feb	15	2002	findelev.f
-rw-r--r--	1	cscherer	sunuser	9568	Dec	23	11:14	findelev.o
-rw-r--r--	1	cscherer	sunuser	60	Aug	16	1997	fu1.i
-rw-r--r--	1	cscherer	sunuser	609	Sep	4	19:29	fu2.i
drwxr-xr-x	2	cscherer	sunuser	512	Oct	4	08:48	george
-rw-r--r--	1	cscherer	sunuser	1229	Jul	22	1999	ia.i
-rw-r--r--	1	cscherer	sunuser	956	Sep	26	2000	ial.i
-rw-r--r--	1	cscherer	sunuser	38724	Feb	15	2002	iareader.f
-rw-r--r--	1	cscherer	sunuser	58072	Dec	23	11:12	iareader.o
-rw-r--r--	1	cscherer	sunuser	68121	Sep	25	12:07	invent.f
-rw-r--r--	1	cscherer	sunuser	73336	Dec	23	11:12	invent.o
-rw-r--r--	1	cscherer	sunuser	33	Sep	25	12:15	invent_.i
-rw-r--r--	1	cscherer	sunuser	57	Aug	16	1997	invent.a.i
-rw-r--r--	1	cscherer	sunuser	182	Sep	25	12:14	inventb.i
-rw-r--r--	1	cscherer	sunuser	344	Sep	25	12:14	inventc.i
-rw-r--r--	1	cscherer	sunuser	124	Sep	25	12:14	inventd.i

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-rw-r--r-- 1 cscherer sunuser 131 Sep 25 12:14 invente.i
-rw-r--r-- 1 cscherer sunuser 130 Sep 25 12:14 inventf.i
-rw-r--r-- 1 cscherer sunuser 128 Sep 25 12:14 inventg.i
-rw-r--r-- 1 cscherer sunuser 127 Sep 25 12:14 inventh.i
-rw-r--r-- 1 cscherer sunuser 75 Aug 16 1997 inventi.i
-rw-r--r-- 1 cscherer sunuser 288 Sep 25 12:14 inventj.i
-rw-r--r-- 1 cscherer sunuser 332 Sep 25 12:14 inventk.i
-rw-r--r-- 1 cscherer sunuser 150 Sep 25 12:14 inventl.i
-rw-r--r-- 1 cscherer sunuser 315 Sep 25 12:14 inventm.i
-rw-r--r-- 1 cscherer sunuser 175 Sep 25 12:15 inventn.i
-rw-r--r-- 1 cscherer sunuser 249 Jan 29 2000 invento.i
-rw-r--r-- 1 cscherer sunuser 267 Sep 25 12:15 inventp.i
-rw-r--r-- 1 cscherer sunuser 20530 Sep 25 18:59 itym.dat
-rw-r--r-- 1 cscherer sunuser 20530 Sep 25 18:59 itym_orig.dat
-rw-r--r-- 1 cscherer sunuser 20556 Oct 29 15:36 itym_pll.dat
-rw-r--r-- 1 cscherer sunuser 4720 Dec 23 11:14 linintrp.o
-rw-r--r-- 1 cscherer sunuser 78 Aug 16 1997 max500yr.i
-rw-r--r-- 1 cscherer sunuser 99 Sep 25 12:10 maxchain.i
-rw-r--r-- 1 cscherer sunuser 149 Sep 25 12:50 maxclchn.i
-rw-r--r-- 1 cscherer sunuser 144 Sep 25 12:50 maxclnuc.i
-rw-r--r-- 1 cscherer sunuser 508 Sep 25 12:11 maxnnucl.i
-rw-r--r-- 1 cscherer sunuser 299 Jul 10 1998 maxnsuba.i
-rw-r--r-- 1 cscherer sunuser 206 May 28 1999 maxntime.i
-rw-r--r-- 1 cscherer sunuser 11850 Feb 15 2002 mv.f
-rw-r--r-- 1 cscherer sunuser 20048 Dec 23 11:12 mv.o
-rw-r--r-- 1 cscherer sunuser 111 Sep 4 1997 mva.i
-rw-r--r-- 1 cscherer sunuser 56 Aug 16 1997 mvb.i
-rw-r--r-- 1 cscherer sunuser 57 Aug 16 1997 mvc.i
-rw-r--r-- 1 cscherer sunuser 101 Aug 16 1997 mvd.i
-rw-r--r-- 1 cscherer sunuser 72 Aug 16 1997 mve.i
-rw-r--r-- 1 cscherer sunuser 72 Aug 16 1997 mvf.i
-rw-r--r-- 1 cscherer sunuser 108095 Sep 20 09:32 nfenv.f
-rw-r--r-- 1 cscherer sunuser 102484 Dec 23 11:12 nfenv.o
-rw-r--r-- 1 cscherer sunuser 94 Aug 16 1997 nintv.i
-rw-r--r-- 1 cscherer sunuser 1502 Jun 11 1997 notice.i
-rw-r--r-- 1 cscherer sunuser 6579 Feb 15 2002 numrecip.f
-rw-r--r-- 1 cscherer sunuser 4700 Dec 23 11:14 numrecip.o
-rw-r--r-- 1 cscherer sunuser 259 Aug 16 1997 path.i
-rw-r--r-- 1 cscherer sunuser 6584 Feb 15 2002 peakfind.f
-rw-r--r-- 1 cscherer sunuser 6780 Dec 23 11:14 peakfind.o
drwxr-xr-x 5 cscherer sunuser 512 Oct 31 10:39 pltest
-rw-r--r-- 1 cscherer sunuser 46322 Feb 15 2002 ran.f
-rw-r--r-- 1 cscherer sunuser 100052 Dec 23 11:14 ran.o
-rw-r--r-- 1 cscherer sunuser 148500 Sep 25 12:25 reader.f
-rw-r--r-- 1 cscherer sunuser 185 May 21 1998 reader.i
-rw-r--r-- 1 cscherer sunuser 444208 Dec 23 11:13 reader.o
-rw-r--r-- 1 cscherer sunuser 106 Aug 27 1999 reader1.i
-rw-r--r-- 1 cscherer sunuser 58 Aug 27 1999 reader2.i
-rw-r--r-- 1 cscherer sunuser 102 Aug 27 1999 reader3.i
-rw-r--r-- 1 cscherer sunuser 89 Aug 27 1999 reader4.i
-rw-r--r-- 1 cscherer sunuser 58 Aug 16 1997 reflux2.i
-rw-r--r-- 1 cscherer sunuser 95694 May 29 2002 sampler.f
-rw-r--r-- 1 cscherer sunuser 177512 Dec 23 11:13 sampler.o
-rw-r--r-- 1 cscherer sunuser 62 Aug 16 1997 sampler0.i
-rw-r--r-- 1 cscherer sunuser 79 Aug 16 1997 sampler1.i
-rw-r--r-- 1 cscherer sunuser 62 Aug 16 1997 sampler2.i
-rw-r--r-- 1 cscherer sunuser 178 Apr 3 1998 sampler3.i

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-rw-r--r--	1	cscherer	sunuser	145	Sep 19	2000	sampler4.i
-rw-r--r--	1	cscherer	sunuser	62	Aug 16	1997	sampler.a.i
-rw-r--r--	1	cscherer	sunuser	62	Aug 16	1997	samplerb.i
-rw-r--r--	1	cscherer	sunuser	62	Aug 16	1997	samplerc.i
-rw-r--r--	1	cscherer	sunuser	68	Aug 16	1997	samplerd.i
-rw-r--r--	1	cscherer	sunuser	133	Aug 16	1997	samlpere.i
-rw-r--r--	1	cscherer	sunuser	111	Aug 16	1997	samplerf.i
-rw-r--r--	1	cscherer	sunuser	84	Aug 16	1997	samplerg.i
-rw-r--r--	1	cscherer	sunuser	68	Aug 16	1997	samplerh.i
-rw-r--r--	1	cscherer	sunuser	83	Aug 16	1997	sampleri.i
-rw-r--r--	1	cscherer	sunuser	61	Aug 16	1997	samplerj.i
-rw-r--r--	1	cscherer	sunuser	208	Aug 16	1997	samplerk.i
-rw-r--r--	1	cscherer	sunuser	104	Aug 16	1997	samplerl.i
-rw-r--r--	1	cscherer	sunuser	63	Aug 16	1997	samplerm.i
-rw-r--r--	1	cscherer	sunuser	79	Aug 16	1997	samplern.i
-rw-r--r--	1	cscherer	sunuser	63	Aug 16	1997	sampler.o.i
-rw-r--r--	1	cscherer	sunuser	260	Mar 14	2002	samplerp.i
-rw-r--r--	1	cscherer	sunuser	103	Aug 16	1997	samplerq.i
-rw-r--r--	1	cscherer	sunuser	176	Aug 16	1997	sampler.r.i
-rw-r--r--	1	cscherer	sunuser	336	Apr 3	1998	sampler.s.i
-rw-r--r--	1	cscherer	sunuser	70	Aug 16	1997	sampler.t.i
-rw-r--r--	1	cscherer	sunuser	69	Aug 16	1997	sampleru.i
-rw-r--r--	1	cscherer	sunuser	62	Aug 16	1997	sampler.v.i
-rw-r--r--	1	cscherer	sunuser	60	Aug 16	1997	sampler.w.i
-rw-r--r--	1	cscherer	sunuser	227	Mar 14	2002	sampler.x.i
-rw-r--r--	1	cscherer	sunuser	299	Apr 30	2001	sampler.y.i
-rw-r--r--	1	cscherer	sunuser	60	Aug 16	1997	sampler.z.i
-rw-r--r--	1	cscherer	sunuser	51131	Sep 21	10:06	seismo2.f
-rw-r--r--	1	cscherer	sunuser	77948	Dec 23	11:13	seismo2.o
-rwxrwxrwx	1	cscherer	sunuser	30	Sep 12	16:53	show_env
drwxr-xr-x	8	cscherer	sunuser	5120	Dec 30	10:44	sltest
-rw-r--r--	1	cscherer	sunuser	1776	Dec 23	11:14	srchpos.o
-rw-r--r--	1	cscherer	sunuser	144	Sep 3	1997	stop.i
-rw-r--r--	1	cscherer	sunuser	38273	Sep 3	10:13	subarea.f
-rw-r--r--	1	cscherer	sunuser	54544	Dec 23	11:13	subarea.o
-rw-r--r--	1	cscherer	sunuser	255	Feb 4	2000	subareaa.i
-rw-r--r--	1	cscherer	sunuser	79	Aug 16	1997	subareab.i
-rw-r--r--	1	cscherer	sunuser	82	Aug 16	1997	subareac.i
-rw-r--r--	1	cscherer	sunuser	81	Aug 16	1997	subaread.i
-rw-r--r--	1	cscherer	sunuser	77	Aug 16	1997	subareae.i
-rw-r--r--	1	cscherer	sunuser	60	Feb 3	2000	subareaf.i
-rw-r--r--	1	cscherer	sunuser	64	Feb 2	2000	subareag.i
-rw-r--r--	1	cscherer	sunuser	1210	Sep 18	11:30	subareas_george.dat
-rw-r--r--	1	cscherer	sunuser	876	Oct 2	09:51	summary_george.dat
-rw-r--r--	1	cscherer	sunuser	108014	Sep 25	12:37	szft.f
-rw-r--r--	1	cscherer	sunuser	60	Feb 7	2000	szft.i
-rw-r--r--	1	cscherer	sunuser	171720	Dec 23	11:13	szft.o
-rwxr-xr-x	1	cscherer	sunuser	2401260	Dec 23	11:14	tpa.e
-rw-r--r--	1	cscherer	sunuser	83751	Nov 1	09:03	tpa.inp
-r--r--r--	1	cscherer	sunuser	9325	Mar 4	2002	tpa_.out
-rwxr-xr-x	1	cscherer	sunuser	2401804	Oct 30	15:13	tpa_base.e
-rw-r--r--	1	cscherer	sunuser	83751	Oct 1	12:07	tpa_base.inp
-rw-r--r--	1	cscherer	sunuser	83751	Oct 1	12:07	tpa_orig.inp
drwxr-xr-x	2	cscherer	sunuser	512	Oct 2	09:50	utiltest
-rw-r--r--	1	cscherer	sunuser	314	Aug 16	1997	uz_climi.i
-rw-r--r--	1	cscherer	sunuser	1219	Sep 6	20:05	uz_climr.i
-rw-r--r--	1	cscherer	sunuser	341	Aug 16	1997	uz_climz.i

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-rw-r--r-- 1 cscherer sunuser 1323 Sep 26 14:28 uz_flowi.i
-rw-r--r-- 1 cscherer sunuser 1170 Sep 26 14:29 uz_flowr.i
-rw-r--r-- 1 cscherer sunuser 176 Aug 16 1997 uz_flowz.i
-rw-r--r-- 1 cscherer sunuser 3225 Sep 26 14:30 uz_parms.i
-rw-r--r-- 1 cscherer sunuser 66563 Sep 26 14:39 uzflow.f
-rw-r--r-- 1 cscherer sunuser 69336 Dec 23 11:14 uzflow.o
-rw-r--r-- 1 cscherer sunuser 119021 Sep 25 17:31 uzft.f
-rw-r--r-- 1 cscherer sunuser 196272 Dec 23 11:14 uzft.o
-rw-r--r-- 1 cscherer sunuser 542 Sep 20 20:44 uzszft.i
-rw-r--r-- 1 cscherer sunuser 14215 Feb 15 2002 volcano.f
-rw-r--r-- 1 cscherer sunuser 17416 Dec 23 11:14 volcano.o
-rw-r--r-- 1 cscherer sunuser 11721 Feb 15 2002 zportunx.f
-rw-r--r-- 1 cscherer sunuser 1932 Dec 23 11:14 zportunx.o

```

## scr390/ccdf:

total 31

```

drwxr-xr-x 2 cscherer sunuser 512 Oct 25 13:48 .
drwxr-xr-x 10 cscherer sunuser 3584 Dec 23 11:14 ..
-rw-r--r-- 1 cscherer sunuser 267 Mar 14 2000 Makefile
-rw-r--r-- 1 cscherer sunuser 23390 Jul 22 1999 tccdf.f
-rw-r--r-- 1 cscherer sunuser 66 Aug 1 1997 tccdf.i
-rw-r--r-- 1 cscherer sunuser 640 Jan 29 2001 tccdf.inp

```

## scr390/codes:

total 2872

```

drwxr-xr-x 4 cscherer sunuser 1024 Dec 23 11:16 .
drwxr-xr-x 10 cscherer sunuser 3584 Dec 23 11:14 ..
-rw-r--r-- 1 cscherer sunuser 1403 Sep 6 13:40 Makefile
-rw-r--r-- 1 cscherer sunuser 499 Jun 2 1997 README
-rw-r--r-- 1 cscherer sunuser 2320 May 28 1998 SIZES.INC
-rw-r--r-- 1 cscherer sunuser 164 Feb 17 1998 SIZES2.INC
-rwxr-xr-x 1 cscherer sunuser 161720 Dec 23 11:15 ashplume.e
-rw-r--r-- 1 cscherer sunuser 95611 Sep 26 2000 ashplume.f
-rw-r--r-- 1 cscherer sunuser 25361 Jul 17 14:57 corrosn.f
-rw-r--r-- 1 cscherer sunuser 23436 Oct 30 15:14 corrosn.o
-rwxr-xr-x 1 cscherer sunuser 42232 Dec 23 11:16 dsfailt.e
-rw-r--r-- 1 cscherer sunuser 20721 Jul 23 15:47 dsfailt.f
-rwxr-xr-x 1 cscherer sunuser 41480 Dec 23 11:16 ebsfilt.e
-rw-r--r-- 1 cscherer sunuser 12568 Sep 26 2000 ebsfilt.f
-rwxr-xr-x 1 cscherer sunuser 197040 Dec 23 11:16 env.e
-rwxr-xr-x 1 cscherer sunuser 284652 Dec 23 11:16 environ.e
-rwxr-xr-x 1 cscherer sunuser 138924 Dec 23 11:15 failt.e
-rw-r--r-- 1 cscherer sunuser 99585 Jul 17 11:11 failt.f
drwxr-xr-x 2 cscherer sunuser 3072 Dec 23 11:16 gentpa
-rwxr-xr-x 1 cscherer sunuser 4040 May 29 2002 integrt.f
-rw-r--r-- 1 cscherer sunuser 1424 Oct 30 15:14 integrt.o
drwxr-xr-x 3 cscherer sunuser 512 Oct 25 13:48 itym
-r--r--r-- 1 cscherer sunuser 868 Mar 14 2002 lhs1.i
-r--r--r-- 1 cscherer sunuser 1308 Mar 14 2002 lhs2.i
-r--r--r-- 1 cscherer sunuser 438 Mar 14 2002 lhs3.i
-r--r--r-- 1 cscherer sunuser 437 Mar 14 2002 lhs4.i
-r--r--r-- 1 cscherer sunuser 374 Mar 14 2002 lhs5.i
-r--r--r-- 1 cscherer sunuser 450 Mar 14 2002 lhs6.i
-r--r--r-- 1 cscherer sunuser 464 Mar 14 2002 lhs7.i
-r--r--r-- 1 cscherer sunuser 431 Mar 14 2002 lhs8.i
-rwxr-xr-x 1 cscherer sunuser 5229 May 29 2002 linintrp.f
-rw-r--r-- 1 cscherer sunuser 3312 Oct 30 15:14 linintrp.o

```

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-rwxr-xr-x 1 cscherer sunuser 106484 Dec 23 11:14 mechfail.e
-rw-r--r-- 1 cscherer sunuser 82807 Sep 25 15:02 mechfail.f
-rwxr-xr-x 1 cscherer sunuser 391264 Dec 23 11:15 nefmks.e
-rw-r--r-- 1 cscherer sunuser 308005 Sep 26 2000 nefmks.f
-rwxr-xr-x 1 cscherer sunuser 114380 Dec 23 11:15 releaset.e
-rw-r--r-- 1 cscherer sunuser 147326 Sep 20 09:33 releaset.f
-rwxr-xr-x 1 cscherer sunuser 212572 Dec 23 11:16 snllhs.e
-rw-r--r-- 1 cscherer sunuser 224558 Sep 6 10:21 snllhs.f
-rwxr-xr-x 1 cscherer sunuser 4303 May 29 2002 srchpos.f
-rw-r--r-- 1 cscherer sunuser 1312 Oct 30 15:14 srchpos.o
-rwxr-xr-x 1 cscherer sunuser 18031 Jul 17 14:40 weldfail.f
-rw-r--r-- 1 cscherer sunuser 9668 Oct 30 15:14 weldfail.o

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scr390/codes/gentpa:

total 1077

```

drwxr-xr-x 2 cscherer sunuser 3072 Dec 23 11:16 .
drwxr-xr-x 4 cscherer sunuser 1024 Dec 23 11:16 ..
-rw-r--r-- 1 cscherer sunuser 543 Feb 11 2000 AFPPAR.CMN
-rw-r--r-- 1 cscherer sunuser 1044 Feb 11 2000 AIRPAR.CMN
-rw-r--r-- 1 cscherer sunuser 872 Feb 11 2000 ANMPAR.CMN
-rw-r--r-- 1 cscherer sunuser 615 Feb 11 2000 AQUPAR.CMN
-rw-r--r-- 1 cscherer sunuser 1089 Feb 11 2000 CONC.CMN
-rw-r--r-- 1 cscherer sunuser 461 Feb 11 2000 DAYPC.CMN
-rw-r--r-- 1 cscherer sunuser 400 Feb 11 2000 DECAY.CMN
-rw-r--r-- 1 cscherer sunuser 571 Feb 11 2000 DFPAR.CMN
-rw-r--r-- 1 cscherer sunuser 1359 Feb 11 2000 DOSALL.CMN
-rw-r--r-- 1 cscherer sunuser 574 Feb 11 2000 ENVPAR.CMN
-rw-r--r-- 1 cscherer sunuser 310 Feb 11 2000 EXPALL.CMN
-rw-r--r-- 1 cscherer sunuser 637 Feb 11 2000 EXTPAR.CMN
-rw-r--r-- 1 cscherer sunuser 327 Feb 11 2000 FILES.CMN
-rw-r--r-- 1 cscherer sunuser 814 Feb 11 2000 FODPAR.CMN
-rw-r--r-- 1 cscherer sunuser 438 Feb 11 2000 INVIN.CMN
-rw-r--r-- 1 cscherer sunuser 569 Feb 11 2000 LABELS.CMN
-rw-r--r-- 1 cscherer sunuser 1161 Feb 11 2000 MTBPAR.CMN
-rw-r--r-- 1 cscherer sunuser 1688 Feb 28 2000 Make.bat
-rw-r--r-- 1 cscherer sunuser 1849 Feb 24 2000 Makefile
-rw-r--r-- 1 cscherer sunuser 1746 Feb 11 2000 Mkenv.fig
-rw-r--r-- 1 cscherer sunuser 1548 Feb 11 2000 Mkenvin.fig
-rw-r--r-- 1 cscherer sunuser 2762 Feb 11 2000 OPT.CMN
-rw-r--r-- 1 cscherer sunuser 444 Feb 11 2000 ORGMAS.CMN
-rw-r--r-- 1 cscherer sunuser 728 Feb 11 2000 ORGPAP.CMN
-rw-r--r-- 1 cscherer sunuser 589 Feb 11 2000 RAD.CMN
-rw-r--r-- 1 cscherer sunuser 788 Feb 11 2000 RADIN.CMN
-rw-r--r-- 1 cscherer sunuser 722 Feb 11 2000 RMD.CMN
-rw-r--r-- 1 cscherer sunuser 489 Feb 11 2000 RMD2.CMN
-rw-r--r-- 1 cscherer sunuser 891 Feb 11 2000 SOLPAR.CMN
-rw-r--r-- 1 cscherer sunuser 489 Feb 11 2000 SWPAR.CMN
-rw-r--r-- 1 cscherer sunuser 586 Feb 11 2000 TIMES.CMN
-rw-r--r-- 1 cscherer sunuser 316 Feb 11 2000 TITL.CMN
-rw-r--r-- 1 cscherer sunuser 12777 Feb 11 2000 accmod.f
-rw-r--r-- 1 cscherer sunuser 25904 Oct 30 15:15 accmod.o
-rw-r--r-- 1 cscherer sunuser 10094 Feb 11 2000 acute1.f
-rw-r--r-- 1 cscherer sunuser 16572 Oct 30 15:16 acute1.o
-rw-r--r-- 1 cscherer sunuser 9579 Feb 11 2000 acutea.f
-rw-r--r-- 1 cscherer sunuser 12028 Oct 30 15:16 acutea.o
-rw-r--r-- 1 cscherer sunuser 7118 Feb 11 2000 acutec.f
-rw-r--r-- 1 cscherer sunuser 8324 Oct 30 15:16 acutec.o

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-rw-r--r--	1	cscherer	sunuser	8669	Feb	11	2000	aircal.f
-rw-r--r--	1	cscherer	sunuser	12304	Oct	30	15:16	aircal.o
-rw-r--r--	1	cscherer	sunuser	8383	Feb	11	2000	anmcal.f
-rw-r--r--	1	cscherer	sunuser	14516	Oct	30	15:16	anmcal.o
-rw-r--r--	1	cscherer	sunuser	2043	Feb	11	2000	aqucal.f
-rw-r--r--	1	cscherer	sunuser	3288	Oct	30	15:16	aqucal.o
-rw-r--r--	1	cscherer	sunuser	1217	Feb	11	2000	biocal.f
-rw-r--r--	1	cscherer	sunuser	2016	Oct	30	15:16	biocal.o
-rw-r--r--	1	cscherer	sunuser	4174	Feb	11	2000	blockd.f
-rw-r--r--	1	cscherer	sunuser	6660	Oct	30	15:15	blockd.o
-rw-r--r--	1	cscherer	sunuser	1405	Feb	11	2000	bsort.f
-rw-r--r--	1	cscherer	sunuser	1216	Oct	30	15:15	bsort.o
-rw-r--r--	1	cscherer	sunuser	13008	Feb	11	2000	candh.f
-rw-r--r--	1	cscherer	sunuser	11964	Oct	30	15:16	candh.o
-rw-r--r--	1	cscherer	sunuser	6653	Feb	11	2000	chain.f
-rw-r--r--	1	cscherer	sunuser	5464	Oct	30	15:16	chain.o
-rw-r--r--	1	cscherer	sunuser	23921	Feb	11	2000	check.f
-rw-r--r--	1	cscherer	sunuser	49048	Oct	30	15:16	check.o
-rw-r--r--	1	cscherer	sunuser	10189	Feb	11	2000	cronmod.f
-rw-r--r--	1	cscherer	sunuser	24012	Oct	30	15:15	cronmod.o
-rw-r--r--	1	cscherer	sunuser	5153	Feb	11	2000	crpcal.f
-rw-r--r--	1	cscherer	sunuser	8744	Oct	30	15:16	crpcal.o
-rw-r--r--	1	cscherer	sunuser	3842	Feb	11	2000	dkharv.f
-rw-r--r--	1	cscherer	sunuser	5924	Oct	30	15:16	dkharv.o
-rw-r--r--	1	cscherer	sunuser	5426	Feb	11	2000	dose.f
-rw-r--r--	1	cscherer	sunuser	2398	Feb	11	2000	drfbiv.f
-rw-r--r--	1	cscherer	sunuser	2752	Oct	30	15:15	drfbiv.o
-rw-r--r--	1	cscherer	sunuser	6728	Feb	11	2000	drfsec.f
-rw-r--r--	1	cscherer	sunuser	4940	Oct	30	15:16	drfsec.o
-rw-r--r--	1	cscherer	sunuser	1877	Feb	11	2000	drkcal.f
-rw-r--r--	1	cscherer	sunuser	2656	Oct	30	15:16	drkcal.o
-rw-r--r--	1	cscherer	sunuser	1325	Feb	11	2000	dumred.f
-rw-r--r--	1	cscherer	sunuser	3652	Oct	30	15:15	dumred.o
-rw-r--r--	1	cscherer	sunuser	3958	Feb	11	2000	edranm.f
-rw-r--r--	1	cscherer	sunuser	7408	Oct	30	15:16	edranm.o
-rw-r--r--	1	cscherer	sunuser	3567	Feb	11	2000	edrcrp.f
-rw-r--r--	1	cscherer	sunuser	7756	Oct	30	15:16	edrcrp.o
-rw-r--r--	1	cscherer	sunuser	2525	Feb	11	2000	edrnnon.f
-rw-r--r--	1	cscherer	sunuser	5244	Oct	30	15:16	edrnnon.o
-rw-r--r--	1	cscherer	sunuser	2853	Feb	11	2000	edrres.f
-rw-r--r--	1	cscherer	sunuser	4504	Oct	30	15:16	edrres.o
-rw-r--r--	1	cscherer	sunuser	10581	Feb	11	2000	env.f
-rw-r--r--	1	cscherer	sunuser	4885	Feb	11	2000	envin.f
-rw-r--r--	1	cscherer	sunuser	4561	Feb	11	2000	envlib.f
-rw-r--r--	1	cscherer	sunuser	9112	Oct	30	15:15	envlib.o
-rw-r--r--	1	cscherer	sunuser	1912	Feb	11	2000	exposr.f
-rw-r--r--	1	cscherer	sunuser	2300	Oct	30	15:16	exposr.o
-rw-r--r--	1	cscherer	sunuser	6774	Feb	11	2000	extcal.f
-rw-r--r--	1	cscherer	sunuser	7676	Oct	30	15:16	extcal.o
-rw-r--r--	1	cscherer	sunuser	1489	Feb	11	2000	filerr.f
-rw-r--r--	1	cscherer	sunuser	4084	Oct	30	15:15	filerr.o
-rw-r--r--	1	cscherer	sunuser	1986	Feb	11	2000	fntdrf.f
-rw-r--r--	1	cscherer	sunuser	2028	Oct	30	15:15	fntdrf.o
-rw-r--r--	1	cscherer	sunuser	3003	Feb	11	2000	headng.f
-rw-r--r--	1	cscherer	sunuser	5788	Oct	30	15:15	headng.o
-rw-r--r--	1	cscherer	sunuser	2203	Feb	11	2000	idnuc.f
-rw-r--r--	1	cscherer	sunuser	3088	Oct	30	15:15	idnuc.o

-rw-r--r--	1	cscherer	sunuser	2842	Feb 11	2000	inhcal.f
-rw-r--r--	1	cscherer	sunuser	5772	Oct 30	15:16	inhcal.o
-rw-r--r--	1	cscherer	sunuser	2392	Feb 11	2000	initnv.f
-rw-r--r--	1	cscherer	sunuser	2928	Oct 30	15:16	initnv.o
-rw-r--r--	1	cscherer	sunuser	1841	Feb 11	2000	intpol.f
-rw-r--r--	1	cscherer	sunuser	3676	Oct 30	15:16	intpol.o
-rw-r--r--	1	cscherer	sunuser	1348	Feb 11	2000	invmol.f
-rw-r--r--	1	cscherer	sunuser	1156	Oct 30	15:16	invmol.o
-rw-r--r--	1	cscherer	sunuser	677	Feb 11	2000	makda2.f
-rw-r--r--	1	cscherer	sunuser	1044	Oct 30	15:15	makda2.o
-rw-r--r--	1	cscherer	sunuser	5870	Feb 11	2000	opnfil.f
-rw-r--r--	1	cscherer	sunuser	12184	Oct 30	15:15	opnfil.o
-rw-r--r--	1	cscherer	sunuser	4217	Feb 11	2000	order.f
-rw-r--r--	1	cscherer	sunuser	5696	Oct 30	15:15	order.o
-rw-r--r--	1	cscherer	sunuser	2325	Feb 11	2000	packag.f
-rw-r--r--	1	cscherer	sunuser	4064	Oct 30	15:16	packag.o
-rw-r--r--	1	cscherer	sunuser	3366	Feb 11	2000	plmriz.f
-rw-r--r--	1	cscherer	sunuser	2212	Oct 30	15:15	plmriz.o
-rw-r--r--	1	cscherer	sunuser	1861	Feb 11	2000	prior.f
-rw-r--r--	1	cscherer	sunuser	2388	Oct 30	15:16	prior.o
-rw-r--r--	1	cscherer	sunuser	4080	Feb 11	2000	prob.f
-rw-r--r--	1	cscherer	sunuser	2144	Oct 30	15:15	prob.o
-rw-r--r--	1	cscherer	sunuser	2079	Feb 11	2000	profile.f
-rw-r--r--	1	cscherer	sunuser	1632	Oct 30	15:15	profile.o
-rw-r--r--	1	cscherer	sunuser	11351	Feb 11	2000	readin.f
-rw-r--r--	1	cscherer	sunuser	48336	Oct 30	15:15	readin.o
-rw-r--r--	1	cscherer	sunuser	6174	Feb 11	2000	redcas.f
-rw-r--r--	1	cscherer	sunuser	25392	Oct 30	15:16	redcas.o
-rw-r--r--	1	cscherer	sunuser	3867	Feb 11	2000	redcha.f
-rw-r--r--	1	cscherer	sunuser	9800	Oct 30	15:16	redcha.o
-rw-r--r--	1	cscherer	sunuser	8483	Feb 11	2000	redflt.f
-rw-r--r--	1	cscherer	sunuser	36472	Oct 30	15:15	redflt.o
-rw-r--r--	1	cscherer	sunuser	1694	Feb 11	2000	redist.f
-rw-r--r--	1	cscherer	sunuser	1824	Oct 30	15:16	redist.o
-rw-r--r--	1	cscherer	sunuser	8548	Feb 11	2000	ritenv.f
-rw-r--r--	1	cscherer	sunuser	35960	Oct 30	15:15	ritenv.o
-rw-r--r--	1	cscherer	sunuser	4371	Feb 11	2000	ritexp.f
-rw-r--r--	1	cscherer	sunuser	11396	Oct 30	15:16	ritexp.o
-rw-r--r--	1	cscherer	sunuser	2584	Feb 11	2000	ritmed.f
-rw-r--r--	1	cscherer	sunuser	7228	Oct 30	15:16	ritmed.o
-rw-r--r--	1	cscherer	sunuser	27222	Feb 11	2000	ritqa.f
-rw-r--r--	1	cscherer	sunuser	92588	Oct 30	15:15	ritqa.o
-rw-r--r--	1	cscherer	sunuser	4346	Feb 11	2000	rlibin.f
-rw-r--r--	1	cscherer	sunuser	10064	Oct 30	15:15	rlibin.o
-rw-r--r--	1	cscherer	sunuser	4399	Feb 11	2000	rwake.f
-rw-r--r--	1	cscherer	sunuser	3380	Oct 30	15:15	rwake.o
-rw-r--r--	1	cscherer	sunuser	2396	Feb 11	2000	sigma.f
-rw-r--r--	1	cscherer	sunuser	1916	Oct 30	15:16	sigma.o
-rw-r--r--	1	cscherer	sunuser	8387	Feb 11	2000	swcal.f
-rw-r--r--	1	cscherer	sunuser	5888	Oct 30	15:16	swcal.o
-rw-r--r--	1	cscherer	sunuser	1894	Feb 11	2000	trnspt.f
-rw-r--r--	1	cscherer	sunuser	2124	Oct 30	15:16	trnspt.o
-rw-r--r--	1	cscherer	sunuser	1771	Feb 11	2000	ustar.f
-rw-r--r--	1	cscherer	sunuser	1500	Oct 30	15:16	ustar.o
-rw-r--r--	1	cscherer	sunuser	9276	Feb 11	2000	xqcal.f
-rw-r--r--	1	cscherer	sunuser	17084	Oct 30	15:16	xqcal.o
-rw-r--r--	1	cscherer	sunuser	5277	Feb 11	2000	xqin.f

```
-rw-r--r--  1 cscherer sunuser 13968 Oct 30 15:15 xqin.o
```

```
scr390/codes/itym:
```

```
total 4
```

```
drwxr-xr-x  3 cscherer sunuser  512 Oct 25 13:48 .
drwxr-xr-x  4 cscherer sunuser 1024 Dec 23 11:16 ..
-rw-r--r--  1 cscherer sunuser  596 Oct  1 10:06 makefile
drwxr-xr-x  2 cscherer sunuser  512 Oct 25 13:48 src
```

```
scr390/codes/itym/src:
```

```
total 323
```

```
drwxr-xr-x  2 cscherer sunuser  512 Oct 25 13:48 .
drwxr-xr-x  3 cscherer sunuser  512 Oct 25 13:48 ..
-rw-r--r--  1 cscherer sunuser 29776 Mar 22 2000 array.f
-rw-r--r--  1 cscherer sunuser 15856 Mar 22 2000 check_valid.f
-rw-r--r--  1 cscherer sunuser 59186 Sep 25 18:51 estimator.f
-rw-r--r--  1 cscherer sunuser  4911 Sep 25 18:53 init_itym.f
-rw-r--r--  1 cscherer sunuser  9420 Sep 25 18:55 itym.f
-rw-r--r--  1 cscherer sunuser 10129 Sep 25 18:57 itym.i
-rw-r--r--  1 cscherer sunuser 26752 Sep 26 14:19 itymutils.f
-rw-r--r--  1 cscherer sunuser   261 Mar 22 2000 path.i
-rw-r--r--  1 cscherer sunuser    55 Mar 22 2000 preuzf.i
-rw-r--r--  1 cscherer sunuser 42671 Mar 22 2000 ran.f
-rw-r--r--  1 cscherer sunuser 38406 Sep 26 14:20 strtokfunc.f
-rw-r--r--  1 cscherer sunuser 60346 Sep 26 14:22 uncertain.f
-rw-r--r--  1 cscherer sunuser 12265 Mar 22 2000 uncertain.i
-rw-r--r--  1 cscherer sunuser    55 Mar 22 2000 unctab.i
-rw-r--r--  1 cscherer sunuser 10904 Mar 22 2000 zportunx.f
```

```
scr390/data:
```

```
total 96684
```

```
drwxr-xr-x  2 cscherer sunuser  1536 Nov  1 08:58 .
drwxr-xr-x 10 cscherer sunuser  3584 Dec 23 11:14 ..
-rw-r--r--  1 cscherer sunuser   965 Feb 11 2000 FILENAME.DAT
-rw-r--r--  1 cscherer sunuser 121789 Mar 22 2000 bunitdem.dat
-rw-r--r--  1 cscherer sunuser  1025 Mar 29 2000 burnup.dat
-rwxr-xr-x  1 cscherer sunuser 468925 Sep 25 19:00 careadem.dat
-rwxr-xr-x  1 cscherer sunuser 515693 Sep 25 19:01 cdepdem.dat
-rw-r--r--  1 cscherer sunuser 850000 Aug 15 1997 climato1.dat
-rw-r--r--  1 cscherer sunuser  2200 Feb  1 1999 climato2.dat
-rw-r--r--  1 cscherer sunuser  4791 Sep 25 17:29 coefkdeq.dat
-rw-r--r--  1 cscherer sunuser  2033 May 31 2002 dilution.dat
-rw-r--r--  1 cscherer sunuser   519 Oct 19 2000 drythick.dat
-rw-r--r--  1 cscherer sunuser   791 Jul 23 15:39 dsfailt.def
-rw-r--r--  1 cscherer sunuser  6265 Jul 17 09:54 ebsfail.def
-rw-r--r--  1 cscherer sunuser   790 May 28 1998 ebsfilt.def
-rw-r--r--  1 cscherer sunuser  5553 Sep  3 09:27 ebsrel.def
-rw-r--r--  1 cscherer sunuser 298679 Mar 22 2000 elevdem.dat
-rw-r--r--  1 cscherer sunuser  9381 May 29 2002 fluoride.dat
-rw-r--r--  1 cscherer sunuser  6513 Feb 11 2000 gbioacl.dat
-rw-r--r--  1 cscherer sunuser  3383 Sep  4 19:18 gdefaults.def
-rw-r--r--  1 cscherer sunuser  3383 Feb 11 2000 gdefault.def
-rw-r--r--  1 cscherer sunuser    64 Feb 11 2000 gdosinc2.dat
-rw-r--r--  1 cscherer sunuser  7011 Feb 11 2000 gftrans.def
-rw-r--r--  1 cscherer sunuser  7011 Sep  4 19:18 gftranss.def
-rw-r--r--  1 cscherer sunuser 15214 Feb 11 2000 ggamen.dat
-rw-r--r--  1 cscherer sunuser 13855 Feb 11 2000 ggenii.def
```



```

-rw-r--r-- 1 cscherer sunuser 13173 Sep  4 19:18 ggeniis.def
-rw-r--r-- 1 cscherer sunuser  5351 Feb 11 2000 ggrdf.dat
-rw-r--r-- 1 cscherer sunuser  9897 Mar 29 2000 gnewdf.dat
-rw-r--r-- 1 cscherer sunuser 13200 Mar 20 2000 grmdlib.dat
-rw-r--r-- 1 cscherer sunuser  3048 Sep 15 2000 gs_cb_ad.dat
-rw-r--r-- 1 cscherer sunuser  2487 Jun  4 1998 gs_cb_ci.dat
-rw-r--r-- 1 cscherer sunuser  3045 Sep 15 2000 gs_pb_ad.dat
-rw-r--r-- 1 cscherer sunuser  2487 Jun  4 1998 gs_pb_ci.dat
-rw-r--r-- 1 cscherer sunuser  7521 May 31 2002 ia.dat
-rw-r--r-- 1 cscherer sunuser 20530 Sep 25 18:59 itym.dat
-rw-r--r-- 1 cscherer sunuser 943774 Mar 29 2000 maidtbl.dat
-rw-r--r-- 1 cscherer sunuser 10978 Mar 22 2000 maswtbl.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:58 maydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:57 maydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:57 maydtbl.dat
-rwxr-xr-x 1 cscherer sunuser 943775 Sep 26 14:48 maydtbl_orig.dat
-rw-r--r-- 1 cscherer sunuser  11267 Sep 21 09:55 mechfail.def
-rw-r--r-- 1 cscherer sunuser  1254 Sep 20 20:42 multifaf.dat
-rw-r--r-- 1 cscherer sunuser  1255 Sep 20 20:42 multifbe.dat
-rw-r--r-- 1 cscherer sunuser 116965 Jul 17 09:56 multiflo.dat
-rw-r--r-- 1 cscherer sunuser  6890 Sep 25 11:51 nuclides.dat
-rw-r--r-- 1 cscherer sunuser  7111 Sep 24 2000 organdf.dat
-rw-r--r-- 1 cscherer sunuser  548 Sep 21 2000 repdes.dat
-rwxr-xr-x 1 cscherer sunuser 130088 Sep 21 09:55 seisbs1.dis
-rwxr-xr-x 1 cscherer sunuser 130088 Sep 21 09:56 seisbs2.dis
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:58 smaydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:57 smaydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:57 smaydtbl.dat
-rwxr-xr-x 1 cscherer sunuser 943788 Sep 26 14:48 smaydtbl_orig.dat
-rw-r--r-- 1 cscherer sunuser 489858 Mar 22 2000 soildem.dat
-rw-r--r-- 1 cscherer sunuser  4506 Feb  7 2000 strmtube.dat
-rw-r--r-- 1 cscherer sunuser 119673 Mar 22 2000 sunitdem.dat
-rw-r--r-- 1 cscherer sunuser 162404 May  8 2000 tefkti.inp
-rw-r--r-- 1 cscherer sunuser  97497 Sep 26 14:24 tpanames.db
-rw-r--r-- 1 cscherer sunuser 471041 Mar 22 2000 winddem.dat
-rw-r--r-- 1 cscherer sunuser  17410 Feb  2 2000 wpflow.def

```

## scr390/docs:

total 69

```

drwxr-xr-x 3 cscherer sunuser  512 Jan 10 11:46 .
drwxr-xr-x 10 cscherer sunuser 3584 Dec 23 11:14 ..
-rwxr--r-- 1 cscherer sunuser 1860 Oct  4 08:53 fedors.txt
drwxr-xr-x 2 cscherer sunuser  512 Oct 25 14:12 fedors_files
-rwxr--r-- 1 cscherer sunuser 16350 Jan 10 11:48 scr_390.wpd
-rwxr--r-- 1 cscherer sunuser 45880 Jan 10 10:38 tp_scr390.wpd

```

## scr390/docs/fedors\_files:

total 127

```

drwxr-xr-x 2 cscherer sunuser  512 Oct 25 14:12 .
drwxr-xr-x 3 cscherer sunuser  512 Jan 10 11:46 ..
-rwxr--r-- 1 cscherer sunuser 42437 Aug 27 08:37 i18n.js
-rwxr--r-- 1 cscherer sunuser 74174 Aug 28 10:28 main.js
-rwxr--r-- 1 cscherer sunuser  9434 Aug 27 08:37 util.js

```

## scr390/george:

total 59

```

drwxr-xr-x 2 cscherer sunuser  512 Oct  4 08:48 .

```

```
drwxr-xr-x 10 cscherer sunuser      3584 Dec 23 11:14 ..
-rwxr--r--  1 cscherer sunuser      54556 Oct  4 08:49 Test Plan PA-SCR-390.wpd
```

## scr390/pltest:

total 28611

```
drwxr-xr-x  5 cscherer sunuser        512 Oct 31 10:39 .
drwxr-xr-x 10 cscherer sunuser      3584 Dec 23 11:14 ..
-rw-r--r--  1 cscherer sunuser     121789 Oct 31 10:30 bunitdem.dat
-rwxr-xr-x  1 cscherer sunuser     468925 Oct 31 10:30 careadem.dat
-rwxr-xr-x  1 cscherer sunuser     515693 Oct 31 10:30 cdepdem.dat
drwxr-xr-x  4 cscherer sunuser       1024 Oct 29 15:41 codes
drwxr-xr-x  2 cscherer sunuser       1536 Oct 25 13:48 data
-rw-r--r--  1 cscherer sunuser     298679 Oct 31 10:30 elevdem.dat
-rw-r--r--  1 cscherer sunuser       1143 Oct 31 15:01 itym-A.out
-rw-r--r--  1 cscherer sunuser     20556 Oct 29 15:36 itym.dat
-rwxr-xr-x  1 cscherer sunuser    1040384 Oct 29 15:41 itym.e
-rw-r--r--  1 cscherer sunuser     8598550 Oct 31 15:01 mairdtbl.dat
-rw-r--r--  1 cscherer sunuser     10978 Oct 31 10:30 maswtbl.dat
-rw-r--r--  1 cscherer sunuser     8598557 Oct 31 15:01 maydtbl.dat
drwxr-xr-x  2 cscherer sunuser       1024 Oct 31 15:15 pl-1
-rw-r--r--  1 cscherer sunuser     8598570 Oct 31 15:01 smaydtbl.dat
-rw-r--r--  1 cscherer sunuser     489858 Oct 31 10:30 soildem.dat
-rw-r--r--  1 cscherer sunuser     119673 Oct 31 10:30 sunitdem.dat
-rw-r--r--  1 cscherer sunuser     471041 Oct 31 10:30 winddem.dat
```

## scr390/pltest/codes:

total 1960

```
drwxr-xr-x  4 cscherer sunuser       1024 Oct 29 15:41 .
drwxr-xr-x  5 cscherer sunuser        512 Oct 31 10:39 ..
-rw-r--r--  1 cscherer sunuser       1403 Sep  6 13:40 Makefile
-rw-r--r--  1 cscherer sunuser        499 Jun  2 1997 README
-rw-r--r--  1 cscherer sunuser       2320 May 28 1998 SIZES.INC
-rw-r--r--  1 cscherer sunuser        164 Feb 17 1998 SIZES2.INC
-rw-r--r--  1 cscherer sunuser     95611 Sep 26 2000 ashplume.f
-rw-r--r--  1 cscherer sunuser     25361 Jul 17 14:57 corrosn.f
-rw-r--r--  1 cscherer sunuser     20721 Jul 23 15:47 dsfailt.f
-rw-r--r--  1 cscherer sunuser     12568 Sep 26 2000 ebsfilt.f
-rw-r--r--  1 cscherer sunuser     99585 Jul 17 11:11 failt.f
drwxr-xr-x  2 cscherer sunuser       2048 Oct 25 13:48 gentpa
-rwxr-xr-x  1 cscherer sunuser       4040 May 29 2002 integrt.f
drwxr-xr-x  3 cscherer sunuser        512 Oct 29 15:41 itym
-rwxr-xr-x  1 cscherer sunuser    1040384 Oct 29 15:41 itym.e
-r--r--r--  1 cscherer sunuser       868 Mar 14 2002 lhs1.i
-r--r--r--  1 cscherer sunuser     1308 Mar 14 2002 lhs2.i
-r--r--r--  1 cscherer sunuser       438 Mar 14 2002 lhs3.i
-r--r--r--  1 cscherer sunuser       437 Mar 14 2002 lhs4.i
-r--r--r--  1 cscherer sunuser       374 Mar 14 2002 lhs5.i
-r--r--r--  1 cscherer sunuser       450 Mar 14 2002 lhs6.i
-r--r--r--  1 cscherer sunuser       464 Mar 14 2002 lhs7.i
-r--r--r--  1 cscherer sunuser       431 Mar 14 2002 lhs8.i
-rwxr-xr-x  1 cscherer sunuser     5229 May 29 2002 linintrp.f
-rw-r--r--  1 cscherer sunuser     82807 Sep 25 15:02 mechfail.f
-rw-r--r--  1 cscherer sunuser    308005 Sep 26 2000 nefmks.f
-rw-r--r--  1 cscherer sunuser    147326 Sep 20 09:33 releaset.f
-rw-r--r--  1 cscherer sunuser    224558 Sep  6 10:21 snllhs.f
-rwxr-xr-x  1 cscherer sunuser       4303 May 29 2002 srchpos.f
-rwxr-xr-x  1 cscherer sunuser     18031 Jul 17 14:40 weldfail.f
```

scr390/pltest/codes/gentpa:

total 410

drwxr-xr-x	2	cscherer	sunuser	2048	Oct 25	13:48	.
drwxr-xr-x	4	cscherer	sunuser	1024	Oct 29	15:41	..
-rw-r--r--	1	cscherer	sunuser	543	Feb 11	2000	AFPPAR.CMN
-rw-r--r--	1	cscherer	sunuser	1044	Feb 11	2000	AIRPAR.CMN
-rw-r--r--	1	cscherer	sunuser	872	Feb 11	2000	ANMPAR.CMN
-rw-r--r--	1	cscherer	sunuser	615	Feb 11	2000	AQUPAR.CMN
-rw-r--r--	1	cscherer	sunuser	1089	Feb 11	2000	CONC.CMN
-rw-r--r--	1	cscherer	sunuser	461	Feb 11	2000	DAYPC.CMN
-rw-r--r--	1	cscherer	sunuser	400	Feb 11	2000	DECAY.CMN
-rw-r--r--	1	cscherer	sunuser	571	Feb 11	2000	DFPAR.CMN
-rw-r--r--	1	cscherer	sunuser	1359	Feb 11	2000	DOSALL.CMN
-rw-r--r--	1	cscherer	sunuser	574	Feb 11	2000	ENVPAR.CMN
-rw-r--r--	1	cscherer	sunuser	310	Feb 11	2000	EXPALL.CMN
-rw-r--r--	1	cscherer	sunuser	637	Feb 11	2000	EXTPAR.CMN
-rw-r--r--	1	cscherer	sunuser	327	Feb 11	2000	FILES.CMN
-rw-r--r--	1	cscherer	sunuser	814	Feb 11	2000	FODPAR.CMN
-rw-r--r--	1	cscherer	sunuser	438	Feb 11	2000	INVIN.CMN
-rw-r--r--	1	cscherer	sunuser	569	Feb 11	2000	LABELS.CMN
-rw-r--r--	1	cscherer	sunuser	1161	Feb 11	2000	MTBPAR.CMN
-rw-r--r--	1	cscherer	sunuser	1688	Feb 28	2000	Make.bat
-rw-r--r--	1	cscherer	sunuser	1849	Feb 24	2000	Makefile
-rw-r--r--	1	cscherer	sunuser	1746	Feb 11	2000	Mkenv.fig
-rw-r--r--	1	cscherer	sunuser	1548	Feb 11	2000	Mkenvin.fig
-rw-r--r--	1	cscherer	sunuser	2762	Feb 11	2000	OPT.CMN
-rw-r--r--	1	cscherer	sunuser	444	Feb 11	2000	ORGMAS.CMN
-rw-r--r--	1	cscherer	sunuser	728	Feb 11	2000	ORGPAP.CMN
-rw-r--r--	1	cscherer	sunuser	589	Feb 11	2000	RAD.CMN
-rw-r--r--	1	cscherer	sunuser	788	Feb 11	2000	RADIN.CMN
-rw-r--r--	1	cscherer	sunuser	722	Feb 11	2000	RMD.CMN
-rw-r--r--	1	cscherer	sunuser	489	Feb 11	2000	RMD2.CMN
-rw-r--r--	1	cscherer	sunuser	891	Feb 11	2000	SOLPAR.CMN
-rw-r--r--	1	cscherer	sunuser	489	Feb 11	2000	SWPAR.CMN
-rw-r--r--	1	cscherer	sunuser	586	Feb 11	2000	TIMES.CMN
-rw-r--r--	1	cscherer	sunuser	316	Feb 11	2000	TITL.CMN
-rw-r--r--	1	cscherer	sunuser	12777	Feb 11	2000	accmod.f
-rw-r--r--	1	cscherer	sunuser	10094	Feb 11	2000	acutel.f
-rw-r--r--	1	cscherer	sunuser	9579	Feb 11	2000	acutea.f
-rw-r--r--	1	cscherer	sunuser	7118	Feb 11	2000	acutec.f
-rw-r--r--	1	cscherer	sunuser	8669	Feb 11	2000	aircal.f
-rw-r--r--	1	cscherer	sunuser	8383	Feb 11	2000	anmcal.f
-rw-r--r--	1	cscherer	sunuser	2043	Feb 11	2000	aqucal.f
-rw-r--r--	1	cscherer	sunuser	1217	Feb 11	2000	biocal.f
-rw-r--r--	1	cscherer	sunuser	4174	Feb 11	2000	blockd.f
-rw-r--r--	1	cscherer	sunuser	1405	Feb 11	2000	bsort.f
-rw-r--r--	1	cscherer	sunuser	13008	Feb 11	2000	candh.f
-rw-r--r--	1	cscherer	sunuser	6653	Feb 11	2000	chain.f
-rw-r--r--	1	cscherer	sunuser	23921	Feb 11	2000	check.f
-rw-r--r--	1	cscherer	sunuser	10189	Feb 11	2000	cronmod.f
-rw-r--r--	1	cscherer	sunuser	5153	Feb 11	2000	crpcal.f
-rw-r--r--	1	cscherer	sunuser	3842	Feb 11	2000	dkharv.f
-rw-r--r--	1	cscherer	sunuser	5426	Feb 11	2000	dose.f
-rw-r--r--	1	cscherer	sunuser	2398	Feb 11	2000	drfbiv.f
-rw-r--r--	1	cscherer	sunuser	6728	Feb 11	2000	drfsec.f
-rw-r--r--	1	cscherer	sunuser	1877	Feb 11	2000	drkcal.f

```

-rw-r--r-- 1 cscherer sunuser 1325 Feb 11 2000 dumred.f
-rw-r--r-- 1 cscherer sunuser 3958 Feb 11 2000 edranm.f
-rw-r--r-- 1 cscherer sunuser 3567 Feb 11 2000 edrcrp.f
-rw-r--r-- 1 cscherer sunuser 2525 Feb 11 2000 edrnon.f
-rw-r--r-- 1 cscherer sunuser 2853 Feb 11 2000 edrres.f
-rw-r--r-- 1 cscherer sunuser 10581 Feb 11 2000 env.f
-rw-r--r-- 1 cscherer sunuser 4885 Feb 11 2000 environ.f
-rw-r--r-- 1 cscherer sunuser 4561 Feb 11 2000 envlib.f
-rw-r--r-- 1 cscherer sunuser 1912 Feb 11 2000 exposr.f
-rw-r--r-- 1 cscherer sunuser 6774 Feb 11 2000 extcal.f
-rw-r--r-- 1 cscherer sunuser 1489 Feb 11 2000 filerr.f
-rw-r--r-- 1 cscherer sunuser 1986 Feb 11 2000 fntdrf.f
-rw-r--r-- 1 cscherer sunuser 3003 Feb 11 2000 headng.f
-rw-r--r-- 1 cscherer sunuser 2203 Feb 11 2000 idnuc.f
-rw-r--r-- 1 cscherer sunuser 2842 Feb 11 2000 inhcal.f
-rw-r--r-- 1 cscherer sunuser 2392 Feb 11 2000 initnv.f
-rw-r--r-- 1 cscherer sunuser 1841 Feb 11 2000 intpol.f
-rw-r--r-- 1 cscherer sunuser 1348 Feb 11 2000 invmol.f
-rw-r--r-- 1 cscherer sunuser 677 Feb 11 2000 makda2.f
-rw-r--r-- 1 cscherer sunuser 5870 Feb 11 2000 opnfil.f
-rw-r--r-- 1 cscherer sunuser 4217 Feb 11 2000 order.f
-rw-r--r-- 1 cscherer sunuser 2325 Feb 11 2000 packag.f
-rw-r--r-- 1 cscherer sunuser 3366 Feb 11 2000 plmriz.f
-rw-r--r-- 1 cscherer sunuser 1861 Feb 11 2000 prior.f
-rw-r--r-- 1 cscherer sunuser 4080 Feb 11 2000 prob.f
-rw-r--r-- 1 cscherer sunuser 2079 Feb 11 2000 profile.f
-rw-r--r-- 1 cscherer sunuser 11351 Feb 11 2000 readin.f
-rw-r--r-- 1 cscherer sunuser 6174 Feb 11 2000 redcas.f
-rw-r--r-- 1 cscherer sunuser 3867 Feb 11 2000 redcha.f
-rw-r--r-- 1 cscherer sunuser 8483 Feb 11 2000 redflt.f
-rw-r--r-- 1 cscherer sunuser 1694 Feb 11 2000 redist.f
-rw-r--r-- 1 cscherer sunuser 8548 Feb 11 2000 ritenv.f
-rw-r--r-- 1 cscherer sunuser 4371 Feb 11 2000 ritexp.f
-rw-r--r-- 1 cscherer sunuser 2584 Feb 11 2000 ritmed.f
-rw-r--r-- 1 cscherer sunuser 27222 Feb 11 2000 ritqa.f
-rw-r--r-- 1 cscherer sunuser 4346 Feb 11 2000 rlibin.f
-rw-r--r-- 1 cscherer sunuser 4399 Feb 11 2000 rwake.f
-rw-r--r-- 1 cscherer sunuser 2396 Feb 11 2000 sigma.f
-rw-r--r-- 1 cscherer sunuser 8387 Feb 11 2000 swcal.f
-rw-r--r-- 1 cscherer sunuser 1894 Feb 11 2000 trnspt.f
-rw-r--r-- 1 cscherer sunuser 1771 Feb 11 2000 ustar.f
-rw-r--r-- 1 cscherer sunuser 9276 Feb 11 2000 xqcal.f
-rw-r--r-- 1 cscherer sunuser 5277 Feb 11 2000 xqin.f

```

scr390/pltest/codes/itym:

total 4

```

drwxr-xr-x 3 cscherer sunuser 512 Oct 29 15:41 .
drwxr-xr-x 4 cscherer sunuser 1024 Oct 29 15:41 ..
-rw-r--r-- 1 cscherer sunuser 596 Oct 1 10:06 makefile
drwxr-xr-x 2 cscherer sunuser 1024 Oct 29 15:41 src

```

scr390/pltest/codes/itym/src:

total 1849

```

drwxr-xr-x 2 cscherer sunuser 1024 Oct 29 15:41 .
drwxr-xr-x 3 cscherer sunuser 512 Oct 29 15:41 ..
-rw-r--r-- 1 cscherer sunuser 29776 Mar 22 2000 array.f
-rw-r--r-- 1 cscherer sunuser 95916 Oct 29 15:41 array.o

```

```

-rw-r--r-- 1 cscherer sunuser 15856 Mar 22 2000 check_valid.f
-rw-r--r-- 1 cscherer sunuser 24848 Oct 29 15:41 check_valid.o
-rw-r--r-- 1 cscherer sunuser 59186 Sep 25 18:51 estimator.f
-rw-r--r-- 1 cscherer sunuser 301564 Oct 29 15:41 estimator.o
-rw-r--r-- 1 cscherer sunuser 4911 Sep 25 18:53 init_itym.f
-rw-r--r-- 1 cscherer sunuser 36100 Oct 29 15:41 init_itym.o
-rw-r--r-- 1 cscherer sunuser 9420 Sep 25 18:55 itym.f
-rw-r--r-- 1 cscherer sunuser 10129 Sep 25 18:57 itym.i
-rw-r--r-- 1 cscherer sunuser 20912 Oct 29 15:41 itym.o
-rw-r--r-- 1 cscherer sunuser 26752 Sep 26 14:19 itymutils.f
-rw-r--r-- 1 cscherer sunuser 184772 Oct 29 15:41 itymutils.o
-rw-r--r-- 1 cscherer sunuser 261 Mar 22 2000 path.i
-rw-r--r-- 1 cscherer sunuser 55 Mar 22 2000 preuzf.i
-rw-r--r-- 1 cscherer sunuser 42671 Mar 22 2000 ran.f
-rw-r--r-- 1 cscherer sunuser 136276 Oct 29 15:41 ran.o
-rw-r--r-- 1 cscherer sunuser 38406 Sep 26 14:20 strtokfunc.f
-rw-r--r-- 1 cscherer sunuser 311340 Oct 29 15:41 strtokfunc.o
-rw-r--r-- 1 cscherer sunuser 60346 Sep 26 14:22 uncertain.f
-rw-r--r-- 1 cscherer sunuser 12265 Mar 22 2000 uncertain.i
-rw-r--r-- 1 cscherer sunuser 383148 Oct 29 15:41 uncertain.o
-rw-r--r-- 1 cscherer sunuser 55 Mar 22 2000 unctab.i
-rw-r--r-- 1 cscherer sunuser 10904 Mar 22 2000 zportunx.f
-rw-r--r-- 1 cscherer sunuser 5484 Oct 29 15:41 zportunx.o

```

## scr390/pltest/data:

total 7065

```

drwxr-xr-x 2 cscherer sunuser 1536 Oct 25 13:48 .
drwxr-xr-x 5 cscherer sunuser 512 Oct 31 10:39 ..
-rw-r--r-- 1 cscherer sunuser 965 Feb 11 2000 FILENAME.DAT
-rw-r--r-- 1 cscherer sunuser 121789 Mar 22 2000 bunitdem.dat
-rw-r--r-- 1 cscherer sunuser 1025 Mar 29 2000 burnup.dat
-rwxr-xr-x 1 cscherer sunuser 468925 Sep 25 19:00 careadem.dat
-rwxr-xr-x 1 cscherer sunuser 515693 Sep 25 19:01 cdepdem.dat
-rw-r--r-- 1 cscherer sunuser 850000 Aug 15 1997 climato1.dat
-rw-r--r-- 1 cscherer sunuser 2200 Feb 1 1999 climato2.dat
-rw-r--r-- 1 cscherer sunuser 4791 Sep 25 17:29 coefkdeq.dat
-rw-r--r-- 1 cscherer sunuser 2033 May 31 2002 dilution.dat
-rw-r--r-- 1 cscherer sunuser 519 Oct 19 2000 drythick.dat
-rw-r--r-- 1 cscherer sunuser 791 Jul 23 15:39 dsfailt.def
-rw-r--r-- 1 cscherer sunuser 6265 Jul 17 09:54 ebsfail.def
-rw-r--r-- 1 cscherer sunuser 790 May 28 1998 ebsfilt.def
-rw-r--r-- 1 cscherer sunuser 5553 Sep 3 09:27 ebsrel.def
-rw-r--r-- 1 cscherer sunuser 298679 Mar 22 2000 elevdem.dat
-rw-r--r-- 1 cscherer sunuser 9381 May 29 2002 fluoride.dat
-rw-r--r-- 1 cscherer sunuser 6513 Feb 11 2000 gbioac1.dat
-rw-r--r-- 1 cscherer sunuser 3383 Sep 4 19:18 gdefaults.def
-rw-r--r-- 1 cscherer sunuser 3383 Feb 11 2000 gdefault.def
-rw-r--r-- 1 cscherer sunuser 64 Feb 11 2000 gdosinc2.dat
-rw-r--r-- 1 cscherer sunuser 7011 Feb 11 2000 gftrans.def
-rw-r--r-- 1 cscherer sunuser 7011 Sep 4 19:18 gftranss.def
-rw-r--r-- 1 cscherer sunuser 15214 Feb 11 2000 ggamen.dat
-rw-r--r-- 1 cscherer sunuser 13855 Feb 11 2000 ggenii.def
-rw-r--r-- 1 cscherer sunuser 13173 Sep 4 19:18 ggeniis.def
-rw-r--r-- 1 cscherer sunuser 5351 Feb 11 2000 ggrdf.dat
-rw-r--r-- 1 cscherer sunuser 9897 Mar 29 2000 gnewdf.dat
-rw-r--r-- 1 cscherer sunuser 13200 Mar 20 2000 grmdlib.dat
-rw-r--r-- 1 cscherer sunuser 3048 Sep 15 2000 gs_cb_ad.dat

```

```

-rw-r--r-- 1 cscherer sunuser 2487 Jun 4 1998 gs_cb_ci.dat
-rw-r--r-- 1 cscherer sunuser 3045 Sep 15 2000 gs_pb_ad.dat
-rw-r--r-- 1 cscherer sunuser 2487 Jun 4 1998 gs_pb_ci.dat
-rw-r--r-- 1 cscherer sunuser 7521 May 31 2002 ia.dat
-rw-r--r-- 1 cscherer sunuser 20530 Sep 25 18:59 itym.dat
-rw-r--r-- 1 cscherer sunuser 943774 Mar 29 2000 maidtbl.dat
-rw-r--r-- 1 cscherer sunuser 10978 Mar 22 2000 maswtbl.dat
-rwxr-xr-x 1 cscherer sunuser 943775 Sep 26 14:48 maydtbl.dat
-rw-r--r-- 1 cscherer sunuser 11267 Sep 21 09:55 mechfail.def
-rw-r--r-- 1 cscherer sunuser 1254 Sep 20 20:42 multifaf.dat
-rw-r--r-- 1 cscherer sunuser 1255 Sep 20 20:42 multifbe.dat
-rw-r--r-- 1 cscherer sunuser 116965 Jul 17 09:56 multiflo.dat
-rw-r--r-- 1 cscherer sunuser 6890 Sep 25 11:51 nuclides.dat
-rw-r--r-- 1 cscherer sunuser 7111 Sep 24 2000 organdf.dat
-rw-r--r-- 1 cscherer sunuser 548 Sep 21 2000 repdes.dat
-rwxr-xr-x 1 cscherer sunuser 130088 Sep 21 09:55 seisbs1.dis
-rwxr-xr-x 1 cscherer sunuser 130088 Sep 21 09:56 seisbs2.dis
-rwxr-xr-x 1 cscherer sunuser 943788 Sep 26 14:48 smaydtbl.dat
-rw-r--r-- 1 cscherer sunuser 489858 Mar 22 2000 soildem.dat
-rw-r--r-- 1 cscherer sunuser 4506 Feb 7 2000 strmtube.dat
-rw-r--r-- 1 cscherer sunuser 119673 Mar 22 2000 sunitdem.dat
-rw-r--r-- 1 cscherer sunuser 162404 May 8 2000 tefkti.inp
-rw-r--r-- 1 cscherer sunuser 97497 Sep 26 14:24 tpanames.dbs
-rw-r--r-- 1 cscherer sunuser 471041 Mar 22 2000 winddem.dat
-rw-r--r-- 1 cscherer sunuser 17410 Feb 2 2000 wpflow.def

```

scr390/pltest/pl-1:

total 56737

```

drwxr-xr-x 2 cscherer sunuser 1024 Oct 31 15:15 .
drwxr-xr-x 5 cscherer sunuser 512 Oct 31 10:39 ..
-rw-r--r-- 1 cscherer sunuser 121789 Oct 30 15:19 bunitdem.dat
-rw-r--r-- 1 cscherer sunuser 298679 Oct 30 15:19 elevdem.dat
-rw-r--r-- 1 cscherer sunuser 2001 Oct 31 15:14 extract_diff.out
-rwxr-xr-x 1 cscherer sunuser 54508 Oct 2 09:50 extract_difference.e
-rw-r--r-- 1 cscherer sunuser 12925 Oct 2 09:48 extract_difference.f
-rw-r--r-- 1 cscherer sunuser 1143 Oct 30 19:54 itym-B.out
-rw-r--r-- 1 cscherer sunuser 20558 Oct 29 15:38 itym.dat
-rwxr-xr-x 1 cscherer sunuser 1040384 Oct 29 15:41 itym.e
-rw-r--r-- 1 cscherer sunuser 20556 Oct 29 15:36 itym_plla.dat
-rw-r--r-- 1 cscherer sunuser 20558 Oct 29 15:38 itym_pllb.dat
-rw-r--r-- 1 cscherer sunuser 8598550 Oct 31 15:01 maidtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 8598550 Oct 30 19:54 maidtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 955744 Oct 31 15:14 maidtbl-diff.dat
-rw-r--r-- 1 cscherer sunuser 955744 Oct 2 09:51 maidtbl-diff_george.dat
-rw-r--r-- 1 cscherer sunuser 955558 Oct 31 15:10 maidtbl-extA.dat
-rw-r--r-- 1 cscherer sunuser 955558 Oct 31 11:55 maidtbl-extB.dat
-rw-r--r-- 1 cscherer sunuser 10978 Oct 30 15:19 maswtbl.dat
-rw-r--r-- 1 cscherer sunuser 8598557 Oct 31 15:01 maydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 8598557 Oct 30 19:54 maydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 8598570 Oct 31 15:01 smaydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 8598570 Oct 30 19:54 smaydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 489858 Oct 30 15:19 soildem.dat
-rw-r--r-- 1 cscherer sunuser 1210 Oct 31 11:40 subareas.dat
-rw-r--r-- 1 cscherer sunuser 1210 Sep 18 11:30 subareas_george.dat
-rw-r--r-- 1 cscherer sunuser 876 Oct 31 15:14 summary.dat
-rw-r--r-- 1 cscherer sunuser 876 Oct 2 09:51 summary_george.dat
-rw-r--r-- 1 cscherer sunuser 119673 Oct 30 15:19 sunitdem.dat

```

```

-rw-r--r--  1 cscherer sunuser  471041 Oct 30 15:19 winddem.dat

scr390/sltest:
total 146923
drwxr-xr-x  8 cscherer sunuser  5120 Dec 30 10:44 .
drwxr-xr-x 10 cscherer sunuser  3584 Dec 23 11:14 ..
-rw-r--r--  1 cscherer sunuser    965 Dec 30 09:43 FILENAME.DAT
-rw-r--r--  1 cscherer sunuser   1701 Dec 30 09:43 NEFII.VEL
-rw-r--r--  1 cscherer sunuser   2745 Dec 30 09:43 airpkdos.res
-rw-r--r--  1 cscherer sunuser   2745 Dec 30 09:43 arpks_c.res
-rw-r--r--  1 cscherer sunuser    913 Dec 30 09:43 ashout.res
-rw-r--r--  1 cscherer sunuser   1025 Dec 30 09:38 burnup.dat
drwxr-xr-x  2 cscherer sunuser    512 Oct 30 15:10 ccdf
-rwxrwxrwx  1 cscherer sunuser    142 Oct 25 14:40 ch_env
-rw-r--r--  1 cscherer sunuser   7547 Dec 30 09:43 chlrdmf.dat
-rw-r--r--  1 cscherer sunuser 850000 Dec 30 09:38 climato1.dat
-rw-r--r--  1 cscherer sunuser   2200 Dec 30 09:38 climato2.dat
drwxr-xr-x  4 cscherer sunuser   1024 Oct 29 15:41 codes
-rw-r--r--  1 cscherer sunuser   4791 Dec 30 09:39 coefkdeq.dat
-rw-r--r--  1 cscherer sunuser  19263 Dec 30 09:43 corrode.out
-rw-r--r--  1 cscherer sunuser 107778 Dec 30 09:43 cp.tpa
-rw-r--r--  1 cscherer sunuser   2251 Dec 30 09:43 cumrel.res
-rw-r--r--  1 cscherer sunuser   2251 Dec 30 09:43 cumrel_c.res
-rw-r--r--  1 cscherer sunuser  69680 Dec 30 09:43 cumrelse.out
drwxr-xr-x  2 cscherer sunuser   1536 Nov  1 09:02 data
-rw-r--r--  1 cscherer sunuser 106585 Dec 30 09:43 dcagw.ech
-rw-r--r--  1 cscherer sunuser  93734 Dec 30 09:43 dcagw.rlt
-rw-r--r--  1 cscherer sunuser  43176 Dec 30 09:43 dcfgw.cum
-rw-r--r--  1 cscherer sunuser   9993 Dec 30 09:43 deltaec.inp
-rw-r--r--  1 cscherer sunuser  14700 Dec 30 09:43 diagnose.out
-rw-r--r--  1 cscherer sunuser   2033 Dec 30 09:43 dilution.dat
-rw-r--r--  1 cscherer sunuser   3870 Dec 30 09:38 drifts.dat
-rw-r--r--  1 cscherer sunuser    519 Dec 30 09:39 drythick.dat
-rw-r--r--  1 cscherer sunuser   9390 Dec 30 09:43 dsfail.ech
-rw-r--r--  1 cscherer sunuser  16979 Dec 30 09:43 dsfail.rlt
-rw-r--r--  1 cscherer sunuser   2626 Dec 30 09:39 dsfailt.dat
-rw-r--r--  1 cscherer sunuser    791 Dec 30 09:39 dsfailt.def
-rwxr-xr-x  1 cscherer sunuser  42232 Dec 30 09:39 dsfailt.e
-rw-r--r--  1 cscherer sunuser    610 Dec 30 09:39 dsfailt.inp
-rw-r--r--  1 cscherer sunuser     34 Dec 30 09:39 dsfailt.out
-rw-r--r--  1 cscherer sunuser  56860 Dec 30 09:43 ebscld.out
-rw-r--r--  1 cscherer sunuser   6265 Dec 30 09:39 ebsfail.def
-rw-r--r--  1 cscherer sunuser 408530 Dec 30 09:43 ebsfail.ech
-rw-r--r--  1 cscherer sunuser   6222 Dec 30 09:43 ebsfail.inp
-rw-r--r--  1 cscherer sunuser  89095 Dec 30 09:43 ebsfail.rlt
-rw-r--r--  1 cscherer sunuser    790 Dec 30 09:39 ebsfilt.def
-rwxr-xr-x  1 cscherer sunuser  41480 Dec 30 09:39 ebsfilt.e
-rw-r--r--  1 cscherer sunuser   3030 Dec 30 09:43 ebsfilt.inp
-rw-r--r--  1 cscherer sunuser    239 Dec 30 09:43 ebsfilt.out
-rw-r--r--  1 cscherer sunuser  20929 Dec 30 09:43 ebsflo.dat
-rw-r--r--  1 cscherer sunuser 219001 Dec 30 09:43 ebsnef.dat
-rw-r--r--  1 cscherer sunuser 162252 Dec 30 09:43 ebsnef.out
-rw-r--r--  1 cscherer sunuser 658449 Dec 30 09:43 ebsnef2.dat
-rw-r--r--  1 cscherer sunuser   1883 Dec 30 09:43 ebspac.nuc
-rw-r--r--  1 cscherer sunuser   9451 Dec 30 09:43 ebsrel.cum
-rw-r--r--  1 cscherer sunuser   5553 Dec 30 09:39 ebsrel.def
-rw-r--r--  1 cscherer sunuser 426148 Dec 30 09:43 ebsrel.ech

```

-rw-r--r--	1	cscherer	sunuser	11211	Dec	30	09:43	ebsrel.inp
-rw-r--r--	1	cscherer	sunuser	1288155	Dec	30	09:43	ebsrel.rlt
-rw-r--r--	1	cscherer	sunuser	162203	Dec	30	09:43	ebssf.dat
-rw-r--r--	1	cscherer	sunuser	25515	Dec	30	09:43	ebstrh.dat
-rw-r--r--	1	cscherer	sunuser	18435	Dec	30	09:43	ebstrhc.inp
-rw-r--r--	1	cscherer	sunuser	2711	Dec	30	09:43	echofail.dat
-rw-r--r--	1	cscherer	sunuser	667001	Dec	30	09:43	echofilt.dat
-rwxr-xr-x	1	cscherer	sunuser	197040	Dec	30	09:43	env.e
-rwxr-xr-x	1	cscherer	sunuser	284652	Dec	30	09:43	envin.e
-rw-r--r--	1	cscherer	sunuser	39353	Dec	30	09:43	epa_ave.out
-rw-r--r--	1	cscherer	sunuser	1706	Dec	30	09:43	epapktim.out
-rw-r--r--	1	cscherer	sunuser	230334	Dec	30	09:43	fault.cum
-rwxr-xr-x	1	cscherer	sunuser	138924	Dec	30	09:39	fault.e
-rw-r--r--	1	cscherer	sunuser	22969	Dec	30	09:43	fault.out
-rw-r--r--	1	cscherer	sunuser	9381	Dec	30	09:39	fluoride.dat
-rw-r--r--	1	cscherer	sunuser	69680	Dec	30	09:43	frac_rel.out
-rw-r--r--	1	cscherer	sunuser	6513	Dec	30	09:43	gbioacl.dat
-rw-r--r--	1	cscherer	sunuser	3383	Dec	30	09:43	gdefault.def
-rw-r--r--	1	cscherer	sunuser	3387	Dec	30	09:43	gdefault.inp
-rw-r--r--	1	cscherer	sunuser	64	Dec	30	09:43	gdosinc2.dat
-rw-r--r--	1	cscherer	sunuser	0	Dec	30	09:43	gentoo.out
-rw-r--r--	1	cscherer	sunuser	36864	Dec	30	09:43	genv.cum
-rw-r--r--	1	cscherer	sunuser	35173	Dec	30	09:43	genv.in
-rw-r--r--	1	cscherer	sunuser	18393	Dec	30	09:43	genv.out
-rw-r--r--	1	cscherer	sunuser	7011	Dec	30	09:43	gftrans.def
-rw-r--r--	1	cscherer	sunuser	7142	Dec	30	09:43	gftrans.inp
-rw-r--r--	1	cscherer	sunuser	15214	Dec	30	09:43	ggamen.dat
-rw-r--r--	1	cscherer	sunuser	20226	Dec	30	09:43	ggenii.cum
-rw-r--r--	1	cscherer	sunuser	13855	Dec	30	09:43	ggenii.def
-rw-r--r--	1	cscherer	sunuser	13164	Dec	30	09:43	ggenii.inp
-rw-r--r--	1	cscherer	sunuser	10074	Dec	30	09:43	ggenii.out
-rw-r--r--	1	cscherer	sunuser	5351	Dec	30	09:43	ggrdf.dat
-rw-r--r--	1	cscherer	sunuser	5673	Dec	30	09:43	gmedia.out
-rw-r--r--	1	cscherer	sunuser	9897	Dec	30	09:43	gnewdf.dat
-rw-r--r--	1	cscherer	sunuser	13200	Dec	30	09:43	grmdlib.dat
-rw-r--r--	1	cscherer	sunuser	571	Dec	30	09:43	gsccdf.res
-rw-r--r--	1	cscherer	sunuser	571	Dec	30	09:43	gsccdf_c.res
-rw-r--r--	1	cscherer	sunuser	3561	Dec	30	09:43	gw_cb_ad.dat
-rw-r--r--	1	cscherer	sunuser	1264	Dec	30	09:43	gw_cb_ci.dat
-rw-r--r--	1	cscherer	sunuser	3557	Dec	30	09:43	gw_pb_ad.dat
-rw-r--r--	1	cscherer	sunuser	1261	Dec	30	09:43	gw_pb_ci.dat
-rw-r--r--	1	cscherer	sunuser	571	Dec	30	09:43	gwccdf.res
-rw-r--r--	1	cscherer	sunuser	571	Dec	30	09:43	gwccdf_c.res
-rw-r--r--	1	cscherer	sunuser	9	Dec	30	09:43	gwork.buf
-rw-r--r--	1	cscherer	sunuser	1737	Dec	30	09:43	gwpkdos.res
-rw-r--r--	1	cscherer	sunuser	1737	Dec	30	09:43	gwpkds_c.res
-rw-r--r--	1	cscherer	sunuser	2169	Dec	30	09:43	gwtuzsz.res
-rw-r--r--	1	cscherer	sunuser	3109	Dec	30	09:31	infilper-A.res
-rw-r--r--	1	cscherer	sunuser	3109	Dec	30	09:43	infilper-B.res
-rw-r--r--	1	cscherer	sunuser	1102	Dec	30	09:43	inv1000.out
-rw-r--r--	1	cscherer	sunuser	20544	Oct	30	15:15	itym-A.dat
-rw-r--r--	1	cscherer	sunuser	2032	Oct	31	22:58	itym-A.out
-rw-r--r--	1	cscherer	sunuser	20546	Oct	30	15:18	itym-B.dat
-rw-r--r--	1	cscherer	sunuser	2032	Oct	31	22:57	itym-B.out
-rw-r--r--	1	cscherer	sunuser	20546	Oct	30	15:18	itym.dat
-rw-r--r--	1	cscherer	sunuser	20530	Sep	25	18:59	itym_base.dat
-rw-r--r--	1	cscherer	sunuser	0	Nov	1	09:05	lhs.csv



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-rw-r--r-- 1 cscherer sunuser      96 Dec 30 09:38 lhs.inp
-rw-r--r-- 1 cscherer sunuser    5268 Dec 23 13:34 lhs.out
-rw-r--r-- 1 cscherer sunuser   69312 Dec 23 13:34 lhse.out
-rw-r--r-- 1 cscherer sunuser 15286168 Oct 31 22:58 maidthbl-A.dat
-rw-r--r-- 1 cscherer sunuser 15286168 Oct 31 22:57 maidthbl-B.dat
-rw-r--r-- 1 cscherer sunuser    1095 Dec 30 09:43 maxrel.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:58 maydthbl-A.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:57 maydthbl-B.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Dec 30 09:38 maydthbl.dat
-rw-r--r-- 1 cscherer sunuser    519279 Dec 30 09:39 mechfail.dat
-rw-r--r-- 1 cscherer sunuser    11267 Dec 30 09:39 mechfail.def
-rwxr-xr-x 1 cscherer sunuser    106484 Dec 30 09:39 mechfail.e
-rw-r--r-- 1 cscherer sunuser    35413 Dec 30 09:39 mechfail.inp
-rw-r--r-- 1 cscherer sunuser         0 Dec 30 09:39 mechfail.out
-rw-r--r-- 1 cscherer sunuser    1254 Dec 30 09:39 multifaf.dat
-rw-r--r-- 1 cscherer sunuser    1255 Dec 30 09:39 multifbe.dat
-rw-r--r-- 1 cscherer sunuser    61240 Dec 30 09:43 mv.tpa
-rw-r--r-- 1 cscherer sunuser    3109 Dec 30 09:43 nearfld.res
-rw-r--r-- 1 cscherer sunuser   702721 Dec 30 09:43 nefii.dis
-rw-r--r-- 1 cscherer sunuser    11316 Dec 30 09:43 nefii.inp
-rw-r--r-- 1 cscherer sunuser 1181911 Dec 30 09:43 nefii.out
-rw-r--r-- 1 cscherer sunuser     603 Dec 30 09:43 nefii.rel
-rw-r--r-- 1 cscherer sunuser   702721 Dec 30 09:43 nefiisz.dis
-rw-r--r-- 1 cscherer sunuser    11316 Dec 30 09:43 nefiisz.inp
-rw-r--r-- 1 cscherer sunuser 1181911 Dec 30 09:43 nefiisz.out
-rw-r--r-- 1 cscherer sunuser   303850 Dec 30 09:43 nefiisz.src
-rw-r--r-- 1 cscherer sunuser    1701 Dec 30 09:43 nefiisz.vel
-rw-r--r-- 1 cscherer sunuser 3064078 Dec 30 09:42 nefiiuz.cum
-rw-r--r-- 1 cscherer sunuser   121944 Dec 30 09:42 nefiiuz.dis
-rw-r--r-- 1 cscherer sunuser    10100 Dec 30 09:42 nefiiuz.inp
-rw-r--r-- 1 cscherer sunuser   382774 Dec 30 09:42 nefiiuz.out
-rw-r--r-- 1 cscherer sunuser   279458 Dec 30 09:42 nefiiuz.src
-rw-r--r-- 1 cscherer sunuser     826 Dec 30 09:42 nefiiuz.vel
-rwxr-xr-x 1 cscherer sunuser   391264 Dec 30 09:39 nefmks.e
-rw-r--r-- 1 cscherer sunuser     300 Dec 30 09:43 nefmks.log
-rw-r--r-- 1 cscherer sunuser   88409 Dec 30 09:43 nfenv.ech
-rw-r--r-- 1 cscherer sunuser  477875 Dec 30 09:43 nfenv.rlt
-rw-r--r-- 1 cscherer sunuser    2505 Dec 30 09:43 npkdoset.res
-rw-r--r-- 1 cscherer sunuser    2505 Dec 30 09:43 npkdst_c.res
-rw-r--r-- 1 cscherer sunuser    6890 Dec 30 09:38 nuclides.dat
-rw-r--r-- 1 cscherer sunuser    7111 Dec 30 09:43 organdf.dat
-rw-r--r-- 1 cscherer sunuser     698 Dec 30 09:43 pkmdose.out
-rw-r--r-- 1 cscherer sunuser    8243 Dec 30 09:43 pkreltim.res
-rw-r--r-- 1 cscherer sunuser    8243 Dec 30 09:43 pkrltm_c.res
-rw-r--r-- 1 cscherer sunuser     899 Dec 30 09:43 rel_flow.out
-rw-r--r-- 1 cscherer sunuser     571 Dec 30 09:43 relccdf.res
-rw-r--r-- 1 cscherer sunuser     721 Dec 30 09:43 relcum.out
-rw-r--r-- 1 cscherer sunuser    4130 Dec 30 09:43 releaset.cum
-rwxr-xr-x 1 cscherer sunuser  114380 Dec 30 09:39 releaset.e
-rw-r--r-- 1 cscherer sunuser     413 Dec 30 09:43 releaset.out
-rw-r--r-- 1 cscherer sunuser     620 Dec 30 09:43 relfrac.out
-rw-r--r-- 1 cscherer sunuser     721 Dec 30 09:43 relgwgs.res
-rw-r--r-- 1 cscherer sunuser     548 Dec 30 09:38 repdes.dat
-rw-r--r-- 1 cscherer sunuser   70760 Dec 30 09:43 rgwna.tpa
-rw-r--r-- 1 cscherer sunuser   70760 Dec 30 09:43 rgwnapani.tpa
-rw-r--r-- 1 cscherer sunuser   70760 Dec 30 09:43 rgwnapdw.tpa
-rw-r--r-- 1 cscherer sunuser   70760 Dec 30 09:43 rgwnapext.tpa

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-rw-r--r-- 1 cscherer sunuser 70760 Dec 30 09:43 rgwnapinh.tpa
-rw-r--r-- 1 cscherer sunuser 70760 Dec 30 09:43 rgwnapmlk.tpa
-rw-r--r-- 1 cscherer sunuser 70760 Dec 30 09:43 rgwnappla.tpa
-rw-r--r-- 1 cscherer sunuser 70760 Dec 30 09:43 rgwnr.tpa
-rw-r--r-- 1 cscherer sunuser 7436 Dec 30 09:43 rgwsa.tpa
-rw-r--r-- 1 cscherer sunuser 23936 Dec 30 09:43 rgwsap.tpa
-rw-r--r-- 1 cscherer sunuser 7482 Dec 30 09:43 rgwsr.tpa
-rw-r--r-- 1 cscherer sunuser 571 Dec 30 09:43 rlccdf_c.res
-rw-r--r-- 1 cscherer sunuser 721 Dec 30 09:43 rlgwgs_c.res
drwxr-xr-x 2 cscherer sunuser 512 Nov 1 08:54 runitymA
drwxr-xr-x 2 cscherer sunuser 512 Nov 1 08:55 runitymB
-rw-r--r-- 1 cscherer sunuser 536 Dec 30 09:38 samplpar.abb
-rw-r--r-- 1 cscherer sunuser 536 Dec 30 09:38 samplpar.hdr
-rw-r--r-- 1 cscherer sunuser 678 Dec 30 09:43 samplpar.res
-rwxr-xr-x 1 cscherer sunuser 130088 Dec 30 09:39 seisbs1.dis
-rwxr-xr-x 1 cscherer sunuser 130088 Dec 30 09:39 seisbs2.dis
-rw-r--r-- 1 cscherer sunuser 59535 Dec 30 09:43 seismo.ech
-rw-r--r-- 1 cscherer sunuser 516665 Dec 30 09:43 seismo.rlt
-rwxrwxrwx 1 cscherer sunuser 30 Sep 12 16:53 show_env
drwxr-xr-x 2 cscherer sunuser 512 Oct 30 15:08 sl-1
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:58 smaydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:57 smaydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 15286188 Dec 30 09:38 smaydtbl.dat
-rwxr-xr-x 1 cscherer sunuser 212572 Dec 23 13:34 snllhs.e
-rw-r--r-- 1 cscherer sunuser 303850 Dec 30 09:43 sotnef.dat
-rw-r--r-- 1 cscherer sunuser 578 Dec 30 09:43 sp.tpa
-rw-r--r-- 1 cscherer sunuser 82873 Dec 30 09:43 spquery.tpa
-rw-r--r-- 1 cscherer sunuser 4506 Dec 30 09:39 strmtube.dat
-rw-r--r-- 1 cscherer sunuser 1288921 Dec 30 09:43 szft.ech
-rw-r--r-- 1 cscherer sunuser 931845 Dec 30 09:43 szft.rlt
-rw-r--r-- 1 cscherer sunuser 13121 Dec 30 09:43 totdos_c.res
-rw-r--r-- 1 cscherer sunuser 19321 Dec 30 09:43 totdose.res
-rwxr-xr-x 1 cscherer sunuser 2401804 Oct 30 15:13 tpa.e
-rw-r--r-- 1 cscherer sunuser 86019 Dec 23 13:42 tpa.inp
-rw-r--r-- 1 cscherer sunuser 83751 Oct 1 12:07 tpa_orig.inp
-rw-r--r-- 1 cscherer sunuser 83751 Nov 1 09:03 tpa_sl-1A.inp
-rw-r--r-- 1 cscherer sunuser 22883 Nov 1 09:12 tpa_sl-1A.out
-rw-r--r-- 1 cscherer sunuser 83751 Nov 1 09:04 tpa_sl-1B.inp
-rw-r--r-- 1 cscherer sunuser 22883 Nov 1 10:20 tpa_sl-1B.out
-rw-r--r-- 1 cscherer sunuser 24137 Dec 30 09:31 tpa_slla.out
-rw-r--r-- 1 cscherer sunuser 24137 Dec 30 09:43 tpa_sl1b.out
-rw-r--r-- 1 cscherer sunuser 24137 Dec 23 13:47 tpa_sl_1means.out
-rw-r--r-- 1 cscherer sunuser 86019 Dec 23 13:42 tpameans_save.out
-rw-r--r-- 1 cscherer sunuser 97497 Dec 30 09:38 tpanames.db
-rw-r--r-- 1 cscherer sunuser 223467 Dec 30 09:43 trelease.out
-rw-r--r-- 1 cscherer sunuser 5965 Dec 30 09:31 uzflow-A.ech
-rw-r--r-- 1 cscherer sunuser 88285 Dec 30 09:31 uzflow-A.rlt
-rw-r--r-- 1 cscherer sunuser 5965 Dec 30 09:43 uzflow-B.ech
-rw-r--r-- 1 cscherer sunuser 88285 Dec 30 09:43 uzflow-B.rlt
-rw-r--r-- 1 cscherer sunuser 1376439 Dec 30 09:43 uzft.ech
-rw-r--r-- 1 cscherer sunuser 1375815 Dec 30 09:43 uzft.rlt
-rw-r--r-- 1 cscherer sunuser 21032 Dec 30 09:43 weldfail.out
-rw-r--r-- 1 cscherer sunuser 13105 Dec 30 09:39 wpflow.dat
-rw-r--r-- 1 cscherer sunuser 17410 Dec 30 09:39 wpflow.def
-rw-r--r-- 1 cscherer sunuser 911 Dec 30 09:43 wpsfail.res

```

scr390/sltest/ccdf:

total 31

drwxr-xr-x	2	cscherer	sunuser	512	Oct	30	15:10	.
drwxr-xr-x	8	cscherer	sunuser	5120	Dec	30	10:44	..
-rw-r--r--	1	cscherer	sunuser	23390	Jul	22	1999	tccdf.f
-rw-r--r--	1	cscherer	sunuser	66	Aug	1	1997	tccdf.i
-rw-r--r--	1	cscherer	sunuser	640	Jan	29	2001	tccdf.inp

scr390/sltest/codes:

total 1940

drwxr-xr-x	4	cscherer	sunuser	1024	Oct	29	15:41	.
drwxr-xr-x	8	cscherer	sunuser	5120	Dec	30	10:44	..
-rw-r--r--	1	cscherer	sunuser	1403	Sep	6	13:40	Makefile
-rw-r--r--	1	cscherer	sunuser	499	Jun	2	1997	README
-rw-r--r--	1	cscherer	sunuser	2320	May	28	1998	SIZES.INC
-rw-r--r--	1	cscherer	sunuser	164	Feb	17	1998	SIZES2.INC
-rw-r--r--	1	cscherer	sunuser	95611	Sep	26	2000	ashplume.f
-rw-r--r--	1	cscherer	sunuser	25361	Jul	17	14:57	corrosn.f
-rw-r--r--	1	cscherer	sunuser	20721	Jul	23	15:47	dsfailt.f
-rw-r--r--	1	cscherer	sunuser	12568	Sep	26	2000	ebsfilt.f
-rw-r--r--	1	cscherer	sunuser	99585	Jul	17	11:11	failt.f
drwxr-xr-x	2	cscherer	sunuser	2048	Oct	25	13:48	gentpa
-rwxr-xr-x	1	cscherer	sunuser	4040	May	29	2002	integrt.f
drwxr-xr-x	3	cscherer	sunuser	512	Oct	29	15:41	itym
-rwxr-xr-x	1	cscherer	sunuser	1040384	Oct	29	15:41	itym.e
-r--r--r--	1	cscherer	sunuser	868	Mar	14	2002	lhs1.i
-r--r--r--	1	cscherer	sunuser	1308	Mar	14	2002	lhs2.i
-r--r--r--	1	cscherer	sunuser	438	Mar	14	2002	lhs3.i
-r--r--r--	1	cscherer	sunuser	437	Mar	14	2002	lhs4.i
-r--r--r--	1	cscherer	sunuser	374	Mar	14	2002	lhs5.i
-r--r--r--	1	cscherer	sunuser	450	Mar	14	2002	lhs6.i
-r--r--r--	1	cscherer	sunuser	464	Mar	14	2002	lhs7.i
-r--r--r--	1	cscherer	sunuser	431	Mar	14	2002	lhs8.i
-rwxr-xr-x	1	cscherer	sunuser	5229	May	29	2002	linintrp.f
-rw-r--r--	1	cscherer	sunuser	82807	Sep	25	15:02	mechfail.f
-rw-r--r--	1	cscherer	sunuser	308005	Sep	26	2000	nefmks.f
-rw-r--r--	1	cscherer	sunuser	147326	Sep	20	09:33	releaset.f
-rw-r--r--	1	cscherer	sunuser	224558	Sep	6	10:21	snllhs.f
-rwxr-xr-x	1	cscherer	sunuser	4303	May	29	2002	srchpos.f
-rwxr-xr-x	1	cscherer	sunuser	18031	Jul	17	14:40	weldfail.f

scr390/sltest/codes/gentpa:

total 410

drwxr-xr-x	2	cscherer	sunuser	2048	Oct	25	13:48	.
drwxr-xr-x	4	cscherer	sunuser	1024	Oct	29	15:41	..
-rw-r--r--	1	cscherer	sunuser	543	Feb	11	2000	AFPPAR.CMN
-rw-r--r--	1	cscherer	sunuser	1044	Feb	11	2000	AIRPAR.CMN
-rw-r--r--	1	cscherer	sunuser	872	Feb	11	2000	ANMPAR.CMN
-rw-r--r--	1	cscherer	sunuser	615	Feb	11	2000	AQUPAR.CMN
-rw-r--r--	1	cscherer	sunuser	1089	Feb	11	2000	CONC.CMN
-rw-r--r--	1	cscherer	sunuser	461	Feb	11	2000	DAYPC.CMN
-rw-r--r--	1	cscherer	sunuser	400	Feb	11	2000	DECAY.CMN
-rw-r--r--	1	cscherer	sunuser	571	Feb	11	2000	DFPAR.CMN
-rw-r--r--	1	cscherer	sunuser	1359	Feb	11	2000	DOSALL.CMN
-rw-r--r--	1	cscherer	sunuser	574	Feb	11	2000	ENVPAR.CMN
-rw-r--r--	1	cscherer	sunuser	310	Feb	11	2000	EXPALL.CMN
-rw-r--r--	1	cscherer	sunuser	637	Feb	11	2000	EXTPAR.CMN
-rw-r--r--	1	cscherer	sunuser	327	Feb	11	2000	FILES.CMN

-rw-r--r--	1	cscherer	sunuser	814	Feb 11	2000	FODPAR.CMN
-rw-r--r--	1	cscherer	sunuser	438	Feb 11	2000	INVIN.CMN
-rw-r--r--	1	cscherer	sunuser	569	Feb 11	2000	LABELS.CMN
-rw-r--r--	1	cscherer	sunuser	1161	Feb 11	2000	MTBPAR.CMN
-rw-r--r--	1	cscherer	sunuser	1688	Feb 28	2000	Make.bat
-rw-r--r--	1	cscherer	sunuser	1849	Feb 24	2000	Makefile
-rw-r--r--	1	cscherer	sunuser	1746	Feb 11	2000	Mkenv.fig
-rw-r--r--	1	cscherer	sunuser	1548	Feb 11	2000	Mkenvin.fig
-rw-r--r--	1	cscherer	sunuser	2762	Feb 11	2000	OPT.CMN
-rw-r--r--	1	cscherer	sunuser	444	Feb 11	2000	ORGMAS.CMN
-rw-r--r--	1	cscherer	sunuser	728	Feb 11	2000	ORGPARG.CMN
-rw-r--r--	1	cscherer	sunuser	589	Feb 11	2000	RAD.CMN
-rw-r--r--	1	cscherer	sunuser	788	Feb 11	2000	RADIN.CMN
-rw-r--r--	1	cscherer	sunuser	722	Feb 11	2000	RMD.CMN
-rw-r--r--	1	cscherer	sunuser	489	Feb 11	2000	RMD2.CMN
-rw-r--r--	1	cscherer	sunuser	891	Feb 11	2000	SOLPAR.CMN
-rw-r--r--	1	cscherer	sunuser	489	Feb 11	2000	SWPAR.CMN
-rw-r--r--	1	cscherer	sunuser	586	Feb 11	2000	TIMES.CMN
-rw-r--r--	1	cscherer	sunuser	316	Feb 11	2000	TITL.CMN
-rw-r--r--	1	cscherer	sunuser	12777	Feb 11	2000	accmod.f
-rw-r--r--	1	cscherer	sunuser	10094	Feb 11	2000	acutel.f
-rw-r--r--	1	cscherer	sunuser	9579	Feb 11	2000	acutea.f
-rw-r--r--	1	cscherer	sunuser	7118	Feb 11	2000	acutec.f
-rw-r--r--	1	cscherer	sunuser	8669	Feb 11	2000	aircal.f
-rw-r--r--	1	cscherer	sunuser	8383	Feb 11	2000	anmcal.f
-rw-r--r--	1	cscherer	sunuser	2043	Feb 11	2000	aqucal.f
-rw-r--r--	1	cscherer	sunuser	1217	Feb 11	2000	biocal.f
-rw-r--r--	1	cscherer	sunuser	4174	Feb 11	2000	blockd.f
-rw-r--r--	1	cscherer	sunuser	1405	Feb 11	2000	bsort.f
-rw-r--r--	1	cscherer	sunuser	13008	Feb 11	2000	candh.f
-rw-r--r--	1	cscherer	sunuser	6653	Feb 11	2000	chain.f
-rw-r--r--	1	cscherer	sunuser	23921	Feb 11	2000	check.f
-rw-r--r--	1	cscherer	sunuser	10189	Feb 11	2000	cronmod.f
-rw-r--r--	1	cscherer	sunuser	5153	Feb 11	2000	crpcal.f
-rw-r--r--	1	cscherer	sunuser	3842	Feb 11	2000	dkharv.f
-rw-r--r--	1	cscherer	sunuser	5426	Feb 11	2000	dose.f
-rw-r--r--	1	cscherer	sunuser	2398	Feb 11	2000	drfbiv.f
-rw-r--r--	1	cscherer	sunuser	6728	Feb 11	2000	drfsec.f
-rw-r--r--	1	cscherer	sunuser	1877	Feb 11	2000	drkcal.f
-rw-r--r--	1	cscherer	sunuser	1325	Feb 11	2000	dumred.f
-rw-r--r--	1	cscherer	sunuser	3958	Feb 11	2000	edranm.f
-rw-r--r--	1	cscherer	sunuser	3567	Feb 11	2000	edrcrp.f
-rw-r--r--	1	cscherer	sunuser	2525	Feb 11	2000	edrnon.f
-rw-r--r--	1	cscherer	sunuser	2853	Feb 11	2000	edrres.f
-rw-r--r--	1	cscherer	sunuser	10581	Feb 11	2000	env.f
-rw-r--r--	1	cscherer	sunuser	4885	Feb 11	2000	envin.f
-rw-r--r--	1	cscherer	sunuser	4561	Feb 11	2000	envlib.f
-rw-r--r--	1	cscherer	sunuser	1912	Feb 11	2000	exposr.f
-rw-r--r--	1	cscherer	sunuser	6774	Feb 11	2000	extcal.f
-rw-r--r--	1	cscherer	sunuser	1489	Feb 11	2000	filerr.f
-rw-r--r--	1	cscherer	sunuser	1986	Feb 11	2000	fntrdrf.f
-rw-r--r--	1	cscherer	sunuser	3003	Feb 11	2000	headng.f
-rw-r--r--	1	cscherer	sunuser	2203	Feb 11	2000	idnuc.f
-rw-r--r--	1	cscherer	sunuser	2842	Feb 11	2000	inhcal.f
-rw-r--r--	1	cscherer	sunuser	2392	Feb 11	2000	initnv.f
-rw-r--r--	1	cscherer	sunuser	1841	Feb 11	2000	intpol.f
-rw-r--r--	1	cscherer	sunuser	1348	Feb 11	2000	invmol.f

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-rw-r--r-- 1 cscherer sunuser 677 Feb 11 2000 makda2.f
-rw-r--r-- 1 cscherer sunuser 5870 Feb 11 2000 opnfil.f
-rw-r--r-- 1 cscherer sunuser 4217 Feb 11 2000 order.f
-rw-r--r-- 1 cscherer sunuser 2325 Feb 11 2000 packag.f
-rw-r--r-- 1 cscherer sunuser 3366 Feb 11 2000 plmriz.f
-rw-r--r-- 1 cscherer sunuser 1861 Feb 11 2000 prior.f
-rw-r--r-- 1 cscherer sunuser 4080 Feb 11 2000 prob.f
-rw-r--r-- 1 cscherer sunuser 2079 Feb 11 2000 profile.f
-rw-r--r-- 1 cscherer sunuser 11351 Feb 11 2000 readin.f
-rw-r--r-- 1 cscherer sunuser 6174 Feb 11 2000 redcas.f
-rw-r--r-- 1 cscherer sunuser 3867 Feb 11 2000 redcha.f
-rw-r--r-- 1 cscherer sunuser 8483 Feb 11 2000 redflt.f
-rw-r--r-- 1 cscherer sunuser 1694 Feb 11 2000 redist.f
-rw-r--r-- 1 cscherer sunuser 8548 Feb 11 2000 ritenv.f
-rw-r--r-- 1 cscherer sunuser 4371 Feb 11 2000 ritexp.f
-rw-r--r-- 1 cscherer sunuser 2584 Feb 11 2000 ritmed.f
-rw-r--r-- 1 cscherer sunuser 27222 Feb 11 2000 ritqa.f
-rw-r--r-- 1 cscherer sunuser 4346 Feb 11 2000 rlibin.f
-rw-r--r-- 1 cscherer sunuser 4399 Feb 11 2000 rwake.f
-rw-r--r-- 1 cscherer sunuser 2396 Feb 11 2000 sigma.f
-rw-r--r-- 1 cscherer sunuser 8387 Feb 11 2000 swcal.f
-rw-r--r-- 1 cscherer sunuser 1894 Feb 11 2000 trnspt.f
-rw-r--r-- 1 cscherer sunuser 1771 Feb 11 2000 ustar.f
-rw-r--r-- 1 cscherer sunuser 9276 Feb 11 2000 xqcal.f
-rw-r--r-- 1 cscherer sunuser 5277 Feb 11 2000 xqin.f

```

scr390/sltest/codes/itym:

total 4

```

drwxr-xr-x 3 cscherer sunuser 512 Oct 29 15:41 .
drwxr-xr-x 4 cscherer sunuser 1024 Oct 29 15:41 ..
-rw-r--r-- 1 cscherer sunuser 596 Oct 1 10:06 makefile
drwxr-xr-x 2 cscherer sunuser 512 Oct 29 15:41 src

```

scr390/sltest/codes/itym/src:

total 1849

```

drwxr-xr-x 2 cscherer sunuser 512 Oct 29 15:41 .
drwxr-xr-x 3 cscherer sunuser 512 Oct 29 15:41 ..
-rw-r--r-- 1 cscherer sunuser 29776 Mar 22 2000 array.f
-rw-r--r-- 1 cscherer sunuser 95916 Oct 29 15:41 array.o
-rw-r--r-- 1 cscherer sunuser 15856 Mar 22 2000 check_valid.f
-rw-r--r-- 1 cscherer sunuser 24848 Oct 29 15:41 check_valid.o
-rw-r--r-- 1 cscherer sunuser 59186 Sep 25 18:51 estimator.f
-rw-r--r-- 1 cscherer sunuser 301564 Oct 29 15:41 estimator.o
-rw-r--r-- 1 cscherer sunuser 4911 Sep 25 18:53 init_itym.f
-rw-r--r-- 1 cscherer sunuser 36100 Oct 29 15:41 init_itym.o
-rw-r--r-- 1 cscherer sunuser 9420 Sep 25 18:55 itym.f
-rw-r--r-- 1 cscherer sunuser 10129 Sep 25 18:57 itym.i
-rw-r--r-- 1 cscherer sunuser 20912 Oct 29 15:41 itym.o
-rw-r--r-- 1 cscherer sunuser 26752 Sep 26 14:19 itymutils.f
-rw-r--r-- 1 cscherer sunuser 184772 Oct 29 15:41 itymutils.o
-rw-r--r-- 1 cscherer sunuser 261 Mar 22 2000 path.i
-rw-r--r-- 1 cscherer sunuser 55 Mar 22 2000 preuzf.i
-rw-r--r-- 1 cscherer sunuser 42671 Mar 22 2000 ran.f
-rw-r--r-- 1 cscherer sunuser 136276 Oct 29 15:41 ran.o
-rw-r--r-- 1 cscherer sunuser 38406 Sep 26 14:20 strtokfunc.f
-rw-r--r-- 1 cscherer sunuser 311340 Oct 29 15:41 strtokfunc.o
-rw-r--r-- 1 cscherer sunuser 60346 Sep 26 14:22 uncertain.f

```

```

-rw-r--r-- 1 cscherer sunuser 12265 Mar 22 2000 uncertain.i
-rw-r--r-- 1 cscherer sunuser 383148 Oct 29 15:41 uncertain.o
-rw-r--r-- 1 cscherer sunuser 55 Mar 22 2000 unctab.i
-rw-r--r-- 1 cscherer sunuser 10904 Mar 22 2000 zportunx.f
-rw-r--r-- 1 cscherer sunuser 5484 Oct 29 15:41 zportunx.o

```

scr390/sltest/data:

total 96685

```

drwxr-xr-x 2 cscherer sunuser 1536 Nov 1 09:02 .
drwxr-xr-x 8 cscherer sunuser 5120 Dec 30 10:44 ..
-rw-r--r-- 1 cscherer sunuser 965 Feb 11 2000 FILENAME.DAT
-rw-r--r-- 1 cscherer sunuser 121789 Mar 22 2000 bunitdem.dat
-rw-r--r-- 1 cscherer sunuser 1025 Mar 29 2000 burnup.dat
-rwxr-xr-x 1 cscherer sunuser 468925 Sep 25 19:00 careadem.dat
-rwxr-xr-x 1 cscherer sunuser 515693 Sep 25 19:01 cdepdem.dat
-rw-r--r-- 1 cscherer sunuser 850000 Aug 15 1997 climato1.dat
-rw-r--r-- 1 cscherer sunuser 2200 Feb 1 1999 climato2.dat
-rw-r--r-- 1 cscherer sunuser 4791 Sep 25 17:29 coefkdeq.dat
-rw-r--r-- 1 cscherer sunuser 2033 May 31 2002 dilution.dat
-rw-r--r-- 1 cscherer sunuser 519 Oct 19 2000 drythick.dat
-rw-r--r-- 1 cscherer sunuser 791 Jul 23 15:39 dsfailt.def
-rw-r--r-- 1 cscherer sunuser 6265 Jul 17 09:54 ebsfail.def
-rw-r--r-- 1 cscherer sunuser 790 May 28 1998 ebsfilt.def
-rw-r--r-- 1 cscherer sunuser 5553 Sep 3 09:27 ebsrel.def
-rw-r--r-- 1 cscherer sunuser 298679 Mar 22 2000 elevdem.dat
-rw-r--r-- 1 cscherer sunuser 9381 May 29 2002 fluoride.dat
-rw-r--r-- 1 cscherer sunuser 6513 Feb 11 2000 gbioacl.dat
-rw-r--r-- 1 cscherer sunuser 3383 Sep 4 19:18 gdefaults.def
-rw-r--r-- 1 cscherer sunuser 3383 Feb 11 2000 gdefault.def
-rw-r--r-- 1 cscherer sunuser 64 Feb 11 2000 gdosinc2.dat
-rw-r--r-- 1 cscherer sunuser 7011 Feb 11 2000 gftrans.def
-rw-r--r-- 1 cscherer sunuser 7011 Sep 4 19:18 gftranss.def
-rw-r--r-- 1 cscherer sunuser 15214 Feb 11 2000 ggamen.dat
-rw-r--r-- 1 cscherer sunuser 13855 Feb 11 2000 ggenii.def
-rw-r--r-- 1 cscherer sunuser 13173 Sep 4 19:18 ggeniis.def
-rw-r--r-- 1 cscherer sunuser 5351 Feb 11 2000 ggrdf.dat
-rw-r--r-- 1 cscherer sunuser 9897 Mar 29 2000 gnewdf.dat
-rw-r--r-- 1 cscherer sunuser 13200 Mar 20 2000 grmdlib.dat
-rw-r--r-- 1 cscherer sunuser 3048 Sep 15 2000 gs_cb_ad.dat
-rw-r--r-- 1 cscherer sunuser 2487 Jun 4 1998 gs_cb_ci.dat
-rw-r--r-- 1 cscherer sunuser 3045 Sep 15 2000 gs_pb_ad.dat
-rw-r--r-- 1 cscherer sunuser 2487 Jun 4 1998 gs_pb_ci.dat
-rw-r--r-- 1 cscherer sunuser 7521 May 31 2002 ia.dat
-rw-r--r-- 1 cscherer sunuser 20530 Sep 25 18:59 itym.dat
-rw-r--r-- 1 cscherer sunuser 943774 Mar 29 2000 maidtbl.dat
-rw-r--r-- 1 cscherer sunuser 10978 Mar 22 2000 maswtbl.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:58 maydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:57 maydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:57 maydtbl.dat
-rwxr-xr-x 1 cscherer sunuser 943775 Sep 26 14:48 maydtbl_orig.dat
-rw-r--r-- 1 cscherer sunuser 11267 Sep 21 09:55 mechfail.def
-rw-r--r-- 1 cscherer sunuser 1254 Sep 20 20:42 multifaf.dat
-rw-r--r-- 1 cscherer sunuser 1255 Sep 20 20:42 multifbe.dat
-rw-r--r-- 1 cscherer sunuser 116965 Jul 17 09:56 multiflo.dat
-rw-r--r-- 1 cscherer sunuser 6890 Sep 25 11:51 nuclides.dat
-rw-r--r-- 1 cscherer sunuser 7111 Sep 24 2000 organdf.dat
-rw-r--r-- 1 cscherer sunuser 548 Sep 21 2000 repdes.dat

```

```

-rwxr-xr-x 1 cscherer sunuser 130088 Sep 21 09:55 seisbs1.dis
-rwxr-xr-x 1 cscherer sunuser 130088 Sep 21 09:56 seisbs2.dis
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:58 smaydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:57 smaydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:57 smaydtbl.dat
-rwxr-xr-x 1 cscherer sunuser 943788 Sep 26 14:48 smaydtbl_orig.dat
-rw-r--r-- 1 cscherer sunuser 489858 Mar 22 2000 soildem.dat
-rw-r--r-- 1 cscherer sunuser 4506 Feb 7 2000 strmtube.dat
-rw-r--r-- 1 cscherer sunuser 119673 Mar 22 2000 sunitdem.dat
-rw-r--r-- 1 cscherer sunuser 162404 May 8 2000 tefkti.inp
-rw-r--r-- 1 cscherer sunuser 97497 Sep 26 14:24 tpanames.dbs
-rw-r--r-- 1 cscherer sunuser 471041 Mar 22 2000 winddem.dat
-rw-r--r-- 1 cscherer sunuser 17410 Feb 2 2000 wpflow.def

```

## scr390/sltest/runitymA:

total 48234

```

drwxr-xr-x 2 cscherer sunuser 512 Nov 1 08:54 .
drwxr-xr-x 8 cscherer sunuser 5120 Dec 30 10:44 ..
-rw-r--r-- 1 cscherer sunuser 121789 Oct 31 14:56 bunitdem.dat
-rwxr-xr-x 1 cscherer sunuser 468925 Oct 31 14:56 careadem.dat
-rwxr-xr-x 1 cscherer sunuser 515693 Oct 31 14:56 cdepdem.dat
-rw-r--r-- 1 cscherer sunuser 298679 Oct 31 14:56 elevdem.dat
-rw-r--r-- 1 cscherer sunuser 20544 Oct 30 15:15 itym-A.dat
-rw-r--r-- 1 cscherer sunuser 2032 Oct 31 22:58 itym-A.out
-rw-r--r-- 1 cscherer sunuser 20544 Oct 30 15:15 itym.dat
-rwxr-xr-x 1 cscherer sunuser 1040384 Oct 29 15:41 itym.e
-rw-r--r-- 1 cscherer sunuser 20530 Sep 25 18:59 itym_base.dat
-rw-r--r-- 1 cscherer sunuser 15286168 Oct 31 22:58 maidtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 10978 Oct 31 14:56 maswtbl.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:58 maydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:58 smaydtbl-A.dat
-rw-r--r-- 1 cscherer sunuser 489858 Oct 31 14:56 soildem.dat
-rw-r--r-- 1 cscherer sunuser 119673 Oct 31 14:56 sunitdem.dat
-rw-r--r-- 1 cscherer sunuser 471041 Oct 31 14:56 winddem.dat

```

## scr390/sltest/runitymB:

total 47229

```

drwxr-xr-x 2 cscherer sunuser 512 Nov 1 08:55 .
drwxr-xr-x 8 cscherer sunuser 5120 Dec 30 10:44 ..
-rw-r--r-- 1 cscherer sunuser 121789 Oct 31 14:58 bunitdem.dat
-rw-r--r-- 1 cscherer sunuser 298679 Oct 31 14:58 elevdem.dat
-rw-r--r-- 1 cscherer sunuser 20546 Oct 30 15:18 itym-B.dat
-rw-r--r-- 1 cscherer sunuser 2032 Oct 31 22:57 itym-B.out
-rw-r--r-- 1 cscherer sunuser 20546 Oct 30 15:18 itym.dat
-rwxr-xr-x 1 cscherer sunuser 1040384 Oct 29 15:41 itym.e
-rw-r--r-- 1 cscherer sunuser 15286168 Oct 31 22:57 maidtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 10978 Oct 31 14:58 maswtbl.dat
-rw-r--r-- 1 cscherer sunuser 15286175 Oct 31 22:57 maydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 15286188 Oct 31 22:57 smaydtbl-B.dat
-rw-r--r-- 1 cscherer sunuser 489858 Oct 31 14:58 soildem.dat
-rw-r--r-- 1 cscherer sunuser 119673 Oct 31 14:58 sunitdem.dat
-rw-r--r-- 1 cscherer sunuser 471041 Oct 31 14:58 winddem.dat

```

## scr390/sltest/sl-1:

total 6

```

drwxr-xr-x 2 cscherer sunuser 512 Oct 30 15:08 .
drwxr-xr-x 8 cscherer sunuser 5120 Dec 30 10:44 ..

```

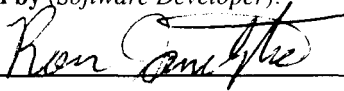
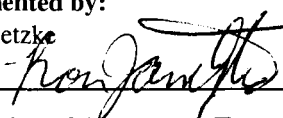
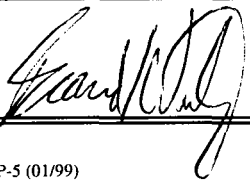
scr390/tiltest:

total 73

drwxr-xr-x	2	cscherer	sunuser	512	Oct	2	09:50	.
drwxr-xr-x	10	cscherer	sunuser	3584	Dec	23	11:14	..
-rw-r--r--	1	cscherer	sunuser	127	Oct	1	12:14	Makefile
-rwxr-xr-x	1	cscherer	sunuser	54508	Oct	2	09:50	extract_difference.e
-rw-r--r--	1	cscherer	sunuser	12925	Oct	2	09:48	extract_difference.f



## SOFTWARE CHANGE REPORT (SCR)

<b>SCR No. (Software Developer Assigns):</b> PA-SCR-409	<b>Software Title and Version:</b> TPA 4.3c	<b>/Project No:</b> 20-06002-01.113
<b>Affected Software Module(s), Description of Problem(s):</b> exex.f  The column heading for eap_ave.out file listed Gonad units as 'conc)pCi/L', it should be 'dose(mrem/yr)'.		
<b>Change Requested by:</b> M Smith Date: 09-25-02	<b>Change Authorized by (Software Developer):</b> R. Janetzke Date: 09-25-02 	
<b>Description of Change(s) or Problem Resolution (If changes not implemented, please justify):</b>  Correction made.		
<b>Implemented by:</b> Ron Janetzke 	<b>Date:</b> 09-26-02	
<b>Description of Acceptance Tests:</b>  Run tpa and verify that column heading in eap_ave.out reflects the change made. The new heading for Gonad units should read 'dose(mrem/yr)'.		
<b>Tested by:</b> B. Winfrey 	<b>Date:</b> December 06, 02	

# Test Plan for TPA SCR # 409

**Test Plan Name:** CHANGE GONAD UNITS

**Tested By:** Brandi L. Winfrey

**Date:** December 4, 2002

**Host Machine:** SUN Ultra-4 Server: spock

**Host OS:** Solaris 5.8

**Baseline Version:** 4.3c

**Test Version:** 5.0betac

## System Level Tests

The system level test is designed to verify that the column header for gonad units reflects the proper heading. The heading was changed from 'conc(pCi/L)' to 'dose(mrem/yr)'.

### FL-1 Verify No Change in Output

#### 1.0 Path for Run Directory

<<Run Directory>> = \$HOME/PA-SCR-409

<<Run Directory >> = \$HOME/PA-SCR-409

#### 2.0 Path for Archived Results

<<Run Directory>>

#### 3.0 Environment Variables

TPA\_TEST = <<Run Directory>>

TPA\_DATA = <<Run Directory>>

#### 4.0 Special Input Files or Modifications to Input Files Required: None

#### 5.0 Special Diagnostic Code Modifications Required: None

#### 6.0 Program Modes to be Used: None

#### 7.0 Utility Scripts Needed to Perform the Test: None

## 8.0 Test Description

8.1 Objective: This test is designed to verify that the column header for gonad units reflects the proper heading. The heading was changed from 'conc(pCi/L)' to 'dose(mrem/yr)'.

8.2 Assumptions: None

8.3 Constraints: None

8.4 Output Files: epa\_ave.out.

8.5 Procedure:

1. After verifying that the column header for gonad units has been corrected in exec.f file, compile the tpa code, run it using the command `tpa.e`, and verify that it runs to completion.
2. Open the output file epa\_ave.out and verify the following:

The column header for gonad units (lines 6 and 7) reads as follows:

Input file tpa.inp as supplied with TPA Version 5.0beta Code.  
Base case.

TPA 5.0betaC, Job started: Fri Dec 6 11:35:49 2002  
Average Dose Over All Realizations  
Determined Using the EPA Standard

time	gross alpha	radium226	<b>Gonad</b>	...
yr	conc (pCi/L)	conc (pCi/L)	<b>dose (mrem/yr)</b>	...
0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	...

8.6 Pass/Fail Criteria: The code runs to completion and the output has been modified in accordance with section 8.5 step 2.

## 9.0 Test Results

9.1 Output and Supporting Files: All files will be archived on a CD labeled, "Test Plan and Test Results for PA-SCR-409."

9.2 Criterion 1: Verify the tpa code executes to completion.

9.3 Criterion 2: Verify the output file contains the modified column header for gonad units (mrem/yr).

**9.4 Overall Test Status:**

This test successfully **PASSED** the criterion above for test FL-1.