Gravity Probe B Relativity Mission

MOC SVR for Sybase 12.5.0.3 Regression Testing

So960
-8960 Rev -
November 7, 2003

Approvals

<table>
<thead>
<tr>
<th>NAME</th>
<th>SIGNATURE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jennifer Spencer</td>
<td></td>
<td>11/4/03</td>
</tr>
<tr>
<td>Data Processing Lead</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carin Kahn</td>
<td></td>
<td>11/7/03</td>
</tr>
<tr>
<td>Database Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marcie Smith</td>
<td></td>
<td>7 NOV 03</td>
</tr>
<tr>
<td>MOC Project Manager</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ron Sharbaugh</td>
<td></td>
<td>11/7/03</td>
</tr>
<tr>
<td>Moc Software Manager</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kelly Burlingham</td>
<td></td>
<td>11/7/03</td>
</tr>
<tr>
<td>Software Quality Engineer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tom Langenstein ITAR Assessment Performed, ITAR Control Req'd? Yes  

ARCHIVE COPY
History

<table>
<thead>
<tr>
<th>REV</th>
<th>DATE</th>
<th>AUTHOR</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>11/7/03</td>
<td>R Sharbaugh</td>
<td>Initial version</td>
</tr>
</tbody>
</table>

1 INTRODUCTION

This Document details the execution of the Sybase 12.5.0.3 test plan detailed in P1073 rev -.

2 APPLICABLE DOCUMENTS

<table>
<thead>
<tr>
<th>Document</th>
<th>Document No.</th>
<th>ALIAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POD Configurations at LM and SU</td>
<td>S0475</td>
<td></td>
</tr>
<tr>
<td>MOC Configuration Control, IONET LAN</td>
<td>S0476</td>
<td></td>
</tr>
</tbody>
</table>

3 SOFTWARE VERIFICATION REPORT

See attachment 1: as-run P1073 rev-
Gravity Probe B Relativity Mission

P001073
Revision -

Sybase 12.5.0.3 Patch
Test Procedure

October 28, 2003

Rodney Torii
SU, Author

Jennifer Spencer
Data Processing Lead

Kelly Burlingham
Software Quality Engineer

Ron Sharbaugh
Software Manager

Carin Kahn
Database Development

Marcie Smith
Mission Operations Manager

Tom Langenstein ITAR Assessment Performed, ITAR Control Req'd?  Yes  No
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1. CHANGE HISTORY

<table>
<thead>
<tr>
<th>REV</th>
<th>DATE</th>
<th>AUTHOR</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial</td>
<td>Oct 28, 2003</td>
<td>RHT</td>
<td>Initial release</td>
</tr>
</tbody>
</table>

2. REFERENCE DOCUMENTS

<table>
<thead>
<tr>
<th>Document No.</th>
<th>Document</th>
</tr>
</thead>
</table>
3. **SCOPE**

The test is not conducted on the production database. The test uses the backup database attached to the Science-Crunch server.

This test plan document describes the test procedure used to verify:
1. Patch fixes a known bug (occurs after cmdgen call); and
2. Patch does not affect the data copied to the database.

4. **OPERATIONAL PERSONNEL**

This procedure is to be conducted only by the following personnel:

1. Jennifer Spencer (SYBASE, TCAD)
2. Carin Kahn (SYBASE)
3. Ron Sharbaugh (CMDGEN, PARAMGEN)
4. Tim Walsh (OD)
5. Vladimir Solomonik or Michael Heifetz (SCIENCE)

5. **RISKS & CONSTRAINTS**

This is not a system test but rather relies on a thorough unit testing of a known bug and unit testing of the database affected by the patch.

6. **QUALITY ASSURANCE PROVISIONS**

6.1 This procedure shall be conducted on a formal basis to its latest approved and released version. Software QA (K. Burlingham) shall be notified 24 hours prior to the start of this procedure. QA may monitor the execution of all or part of this procedure should they elect to do so.

6.2 QA notification time/date:

<table>
<thead>
<tr>
<th>Date/time: 16/30/03</th>
<th>1998</th>
<th>GP-B QA (K. Burlingham)</th>
</tr>
</thead>
</table>

6.3 Upon completion of this procedure, GP-B QA shall certify her/his concurrence that the procedure was performed and accomplished in accordance with the prescribed instructions by signing and dating his approval at the end of this procedure.

6.4 QA may redline this procedure.

7. **GENERAL INSTRUCTIONS**

7.1 Redlines can be initiated by the personnel listed in Section 4 and must be approved by QA.
7.2 Operators shall read this procedure in its entirety and resolve any apparent ambiguities before beginning this procedure.
7.3 Any nonconformance or anomaly is to be reported by a DLOG. Refer to the Software Quality Assurance Plan, P0630, for guidance. Do not alter or break configuration if a failure occurs; notify Software Quality Assurance.
7.4 Only the following persons have the authority to exit/terminate this test or perform a retest: Certified operators listed in Section 4 and GP-B QA.

8. TEST ENVIRONMENT
The test environment is comprised of the following platforms and modules.

<table>
<thead>
<tr>
<th>Software Configurations</th>
<th>Version Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solaris</td>
<td>5.6 (CGEN, PGEN)</td>
</tr>
<tr>
<td>Solaris</td>
<td>5.8 (BCP, OD)</td>
</tr>
<tr>
<td>Command Generation</td>
<td>1.6</td>
</tr>
<tr>
<td>Parameter Generation</td>
<td>1.6</td>
</tr>
<tr>
<td>TCAD</td>
<td>LASP-2.0</td>
</tr>
<tr>
<td>OD</td>
<td>OD-1.2</td>
</tr>
</tbody>
</table>

9. TEST CASES AND FILE VERSION MATRIX
The files listed below are the tested configuration of the CSCI and the test cases that test each module:

<table>
<thead>
<tr>
<th>File Name</th>
<th>File version</th>
<th>Test Name</th>
<th>Test Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sybase</td>
<td>12.5.0.3</td>
<td>CGEN1</td>
<td>11.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BCP1</td>
<td>11.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGEN2</td>
<td>11.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PGEN1</td>
<td>11.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TCAD1</td>
<td>11.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OD1</td>
<td>11.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCI1</td>
<td>11.7</td>
</tr>
</tbody>
</table>

10. CSCI UNDER TEST

<table>
<thead>
<tr>
<th>Sybase</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ASE 12.5.0.3 euf 11331</td>
</tr>
</tbody>
</table>

Test Operator: **Cain Kahn**  Name: **Cain Kahn**

Test Operator: **Row Shadbolt**  Name: **Row Shadbolt**

Test Operator: **Row Shadbolt**  Name: **Row Shadbolt**
11. TEST CASES

Notes:
1. Test cases need not be performed in the order provided below except where specified.
2. Various test cases may/will be performed by various CSCI experts.

11.1. CGEN1: Command Generation

Test Case Verification Number: CGEN1

INTRODUCTION
This test case will show that Command Generation call does not cause Sybase to hang forcing a Sybase reset.

APPROACH

Run cmdgen continuously (minimum of 6 hours). Verify Sybase functioning properly by executing sp.who in Sybase. After cmdgen is terminated, check user "cmdops" jobs to verify user is no longer present.

FEATURES TO BE TESTED
Command generation does not hang.

FEATURES NOT TO BE TESTED
Command Generation output files are same as with 12.5.0.1 (see CGEN2 test)

PASS/FAIL
Pass/Fail Conditions: Sybase does not hang.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pass / Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.1.1</td>
<td></td>
</tr>
<tr>
<td>Start Time: 00:38:32</td>
<td>10/31/03</td>
</tr>
<tr>
<td>See Attachment: 11.1.4 + 11.1.6</td>
<td></td>
</tr>
<tr>
<td>11.1.2</td>
<td></td>
</tr>
<tr>
<td>Verify normal Sybase operation using sp_who in Sybase.</td>
<td></td>
</tr>
<tr>
<td>See Attachment: 11.1.2</td>
<td></td>
</tr>
<tr>
<td>11.1.3</td>
<td></td>
</tr>
<tr>
<td>Stop Time: 17:08</td>
<td>10/31/03 2</td>
</tr>
<tr>
<td># Times Executed: 143</td>
<td></td>
</tr>
</tbody>
</table>
11.2. **BCP1: Verify Data**

Test Case Verification Number: BCP1

**INTRODUCTION**
This test verifies that Sybase patch has not changed the data copied to the database.

**APPROACH**

Process SRE test file (framex file in /home/tdp/functionals/...) using auto_impct.exp with check only flag. Bulk copy tmanalog. tmp file in binary to database (source environment variables file and reference -S science_pc in bcp line). Create view, then bcp view out. Unix "diff bcp "out" and "in" to show data has not changed.

**FEATURES TO BE TESTED**
Use a dataset that has been BCP'd into the 12.5.0.1 database for the TCAD1 test below.

**FEATURES NOT TO BE TESTED**
N/A

**PASS/FAIL**
Pass/Fail Conditions: No difference between data "in" and data "out".

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.2.1</td>
<td></td>
</tr>
<tr>
<td>11.2.2</td>
<td></td>
</tr>
<tr>
<td>11.2.4</td>
<td></td>
</tr>
</tbody>
</table>

11.3. **COMMAND GEN Regression Test**

Test Case Verification Number: CGEN2

**INTRODUCTION**
This regression test shows that command generation outputs the same files under 12.5.0.1 as it does under 12.5.0.3. Command generation only runs on moc1, which has the sybase 11.9.2 API.

**APPROACH**
Use command generation to compile a "mission timeline file" that was used in sim7. Do a diff between the output files just created vs. the equivalent ones in sim7, and the only allowable differences are:
- Run date
- Run directory
- Execution Time

FEATURES TO BE TESTED
The load file shall contain "D" tasks which were populated with PARAMGEN1.

FEATURES NOT TO BE TESTED
N/A

PASS/FAIL
Pass/Fail Conditions: Only differences are those detailed above

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pass / Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy sim7 mission timeline file</td>
<td>![image of marker]</td>
</tr>
<tr>
<td>Enter source path:</td>
<td>![image of marker]</td>
</tr>
<tr>
<td>Enter destination path:</td>
<td>![image of marker]</td>
</tr>
<tr>
<td>Run command generation, using science_pc sybase server (DSQUERY)</td>
<td>![image of marker]</td>
</tr>
<tr>
<td>Diff files show regression test passes</td>
<td>![image of marker]</td>
</tr>
</tbody>
</table>

11.4. PARAMGEN Regression Test
Test Case Verification Number: PG1N

INTRODUCTION
This regression test shows that parameter generation outputs the same files under 12.5.0.1 as it does under 12.5.0.3. Paramgen only runs on moc1, which has the sybase 11.9.2 API.

APPROACH
Use parameter generation to populate the database, and create a report file. Do a diff between the report file just created vs. the equivalent one in sim7, and the only allowable differences are:
- Run date
- Run directory

FEATURES TO BE TESTED
Data in/out of Sybase same as with 12.5.0.1.

FEATURES NOT TO BE TESTED
Not all paramgen types will be tested – they all use the same 3 tables in Sybase.

PASS/FAIL
Pass/Fail Conditions: Only differences are those detailed above

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pass / Fail</th>
</tr>
</thead>
</table>
11.5. TCAD Regression Test

Test Case Verification Number: TCAD1

INTRODUCTION
This regression test shows that TCAD extracts the same data under 12.5.0.1 as is does under 12.5.0.3.

APPROACH
This test follows BCP1.

Use TCAD to both display and extract to file data from the BCP1 test on both servers.

FEATURES TO BE TESTED
Data out of Sybase same as with 12.5.0.1

FEATURES NOT TO BE TESTED
N/A

PASS/FAIL
Pass/Fail Conditions: TCAD plots shall visually look identical. Data files shall "diff" the same.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pass / Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycle#, start time, end time: -2440, 2000/02-01:47:36.9, +0.2</td>
<td>F</td>
</tr>
<tr>
<td>Plot &amp; File created on 12.5.0.1 system.</td>
<td></td>
</tr>
<tr>
<td>Plot is attachment: 11.5.3.d</td>
<td>P</td>
</tr>
<tr>
<td>Data File full path: ~ / P1033-TCAD.12.5.0.1.data</td>
<td>P</td>
</tr>
<tr>
<td>Change Interfaces file to access 12.5.0.3 database</td>
<td></td>
</tr>
<tr>
<td>Source SYBASE: es</td>
<td></td>
</tr>
<tr>
<td>See attachment: 11.5.3.d, 11.5.3.b</td>
<td>P</td>
</tr>
<tr>
<td>Plot &amp; File created on 12.5.0.3 system.</td>
<td></td>
</tr>
<tr>
<td>Plot is attachment: 11.5.3.c</td>
<td>P</td>
</tr>
<tr>
<td>Data File full path: ~ / P1033-TCAD.12.5.0.3.data</td>
<td>P</td>
</tr>
<tr>
<td>Plots are visually identical</td>
<td>P</td>
</tr>
</tbody>
</table>
### 11.6. OD Regression Test

**Test Case Verification Number:** OD1

#### INTRODUCTION

OD resides on the science network, and it utilizes the 12.5 API.

#### APPROACH

On both the 12.5.0.1 and the 12.5.0.3 databases:

- Use microcosm to ingest a orbit into the database.
- Extract the orbit from the database.
- Create a STK 'e' file from the extracted orbit.

The "e" files shall be compared.

#### FEATURES TO BE TESTED

Data in/out of Sybase same as with 12.5.0.1.

#### FEATURES NOT TO BE TESTED

N/A

#### PASS/FAIL

Pass/Fail Conditions: "e" files results shall have the same ephemeris.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pass / Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using a microcosm generated orbit, ingest a orbit into the database on 12.5.0.1 server. Enter full path to data: /home/science/od.ops/analysis/Regression/Testing/Sybase-Regression-12.5.0.1</td>
<td>P</td>
</tr>
<tr>
<td>Extract the orbit from the 12.5.0.1 database Enter full path to data: ANA GPS TOD 2003 309 18 07 02 Sybase Regression Testing 12.5.0.1</td>
<td>P</td>
</tr>
<tr>
<td>Create an &quot;e&quot; file for the 12.5.0.1 data. Attachment: Sybase_regression_12-5-0-1.e</td>
<td>P</td>
</tr>
<tr>
<td>Using a microcosm generated orbit, ingest a orbit into the database on 12.5.0.3 server. Enter full path to data: /home/science/od.ops/analysis/Regression/Testing/Sybase_regression-12.5.0.3</td>
<td>P</td>
</tr>
<tr>
<td>Extract the orbit from the 12.5.0.3 database Enter full path to data: ANA GPS TOD 2003 309 18 07 02 Sybase Regression Testing 12.5.0.3</td>
<td>P</td>
</tr>
<tr>
<td>Create an &quot;e&quot; file for the 12.5.0.3 database. Attachment: Sybase_regression_12-5-0-3.e</td>
<td>P</td>
</tr>
<tr>
<td>Verify the &quot;e&quot; files have the same ephemeris Unix &quot;sdiff&quot; attached</td>
<td>P</td>
</tr>
</tbody>
</table>
11.7. **SCIENCE Regression Test**

**Test Case Verification Number: SCI1**

**INTRODUCTION**
The science group reads from "L1", writes to "L2", and reads from "L2". This test checks these database accesses.

**APPROACH**
Define a regression test that shows 12.5.0.1 and 12.5.0.3 databases process a data set identically.

**FEATURES TO BE TESTED**
Data in/out of Sybase same as with 12.5.0.1.

**FEATURES NOT TO BE TESTED**
Only a subset of the

**PASS/FAIL**
Pass/Fail Conditions: "e" files results shall have the same ephemeris.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pass / Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read from &quot;L1&quot; on sybase 12.5.0.1 database.</td>
<td>P</td>
</tr>
<tr>
<td>Attachment: 11.7.a</td>
<td></td>
</tr>
<tr>
<td>Write to &quot;L2&quot; on sybase 12.5.0.1 database.</td>
<td>P</td>
</tr>
<tr>
<td>Attachment: 11.7.c</td>
<td></td>
</tr>
<tr>
<td>Read from &quot;L2&quot; on 12.5.0.1 database.</td>
<td>P</td>
</tr>
<tr>
<td>Attachment: 11.7.e</td>
<td></td>
</tr>
<tr>
<td>Read from &quot;L1&quot; on sybase 12.5.0.3 database.</td>
<td>P</td>
</tr>
<tr>
<td>Attachment: 11.7.a</td>
<td></td>
</tr>
<tr>
<td>Write to &quot;L2&quot; on sybase 12.5.0.3 database.</td>
<td>P</td>
</tr>
<tr>
<td>Attachment: 11.7.e</td>
<td></td>
</tr>
<tr>
<td>Read from &quot;L2&quot; on 12.5.0.3 database.</td>
<td>P</td>
</tr>
<tr>
<td>Attachment: 11.7.e</td>
<td></td>
</tr>
<tr>
<td>Show that the 12.5.0.1 results match the 12.5.0.3 results</td>
<td>P</td>
</tr>
<tr>
<td>Attachment: 11.7.a 11.7.e</td>
<td></td>
</tr>
</tbody>
</table>

12. **CERTIFICATION**

I certify that this procedure was performed in whole and that the data recorded above is complete and accurate.

Test Engineer [Signature]

Date 11/7/03
This is to certify that the information obtained under this test procedure is as represented and the documentation is completed and correct.

13. GLOSSARY

This section contains an alphabetic list and definitions of all acronyms used in the document, all proper nouns, and any words used in a non-standard way.

<table>
<thead>
<tr>
<th>Word</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCP</td>
<td>Sybase bulk copy utility</td>
</tr>
<tr>
<td>LASP</td>
<td>Laboratory for Atmospheric and Space Physics, University of Colorado</td>
</tr>
<tr>
<td>moc-server</td>
<td>Host name of the SUN computer that is the primary server for the MOC.</td>
</tr>
<tr>
<td>science server</td>
<td>Host name of the SUN computer which is the primary server for science LAN</td>
</tr>
<tr>
<td>science crunch</td>
<td>Host name of the SUN computer which is the backup server for science LAN</td>
</tr>
<tr>
<td>MOC</td>
<td>Mission Operations Center</td>
</tr>
<tr>
<td>MCR</td>
<td>MOC Change Request</td>
</tr>
</tbody>
</table>
Your variables are:

ans newData

>> load L1_OLDDATABASE.mat
>> who

Your variables are:

ans datallread newData

>> find (datallread ==newData) →

ans =

    Empty matrix: 0-by-1

>> newData(1,2)=0;
>> find (datallread ==newData) "

ans =

    430583

>>
11readTest
12read test started
12read test passed
11read test started
11read test passed
clear
ls

ans =

L1_OLD.mat L1_OLDDATABASE.mat 11readTest.m L2connect.m 12readWriteTest.m testReadWrite.m-

who

Your variables are:

ans

load L1_OLD.mat
ls

ans =

L1_OLD.mat L1_OLDDATABASE.mat 11readTest.m L2connect.m 12readWriteTest.m testReadWrite.m-
who

Your variables are:

ans     datallread

newData = datallread;
clear datallread
who

Your variables are:

ans     newData

load L1_OLDDATABASE.mat
who

Your variables are:

ans     datallread newData

find (datallread ~= newData)

ans =

    Empty matrix: 0-by-1

newData(1,2)=0;
find (datallread ~= newData)

ans =

    430583
<table>
<thead>
<tr>
<th>fid</th>
<th>spid</th>
<th>status</th>
<th>loginame</th>
<th>origname</th>
<th>hostname</th>
<th>blk_spid</th>
<th>dbname</th>
<th>cmd</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>54</td>
<td>running</td>
<td>autosci</td>
<td>autosci</td>
<td>0</td>
<td>L2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1 row affected)  
(return status = 0)

<table>
<thead>
<tr>
<th>fid</th>
<th>spid</th>
<th>status</th>
<th>loginame</th>
<th>origname</th>
<th>hostname</th>
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(0 rows affected)
(return status = 0)

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[CanCan]

1>
Instance(s):
  Start Time: 26-Sep-2003 08:10:02  Stop Time: 26-Sep-2003 08:11:42

[24408] ECUG00_Ensure_Science_Sample_Table --> [24075] SIM7_008 --> [2] SIM7
Instance(s):

[24294] CDHC00_Select_solt1_for_32K_SSR --> [24075] SIM7_008 --> [2] SIM7
Instance(s):
  Start Time: 26-Sep-2003 08:15:42  Stop Time: 26-Sep-2003 08:16:02

[24296] ATCI00_Star_Sensor1_Matrix_Update --> [24075] SIM7_003 --> [2] SIM7
Instance(s):

Instance(s):

Instance(s):
  Start Time: 26-Sep-2003 08:16:35  Stop Time: 26-Sep-2003 08:17:00

Instance(s):
  Start Time: 26-Sep-2003 08:17:02  Stop Time: 26-Sep-2003 08:17:17

[24470] SUMG00_ATC_Roll_Rate_from_0.2_to_0.4_rpm --> [24075] SIM7_008 --> [2] SIM7
Instance(s):

Instance(s):

Instance(s):

Instance(s):

Instance(s):

Instance(s):

Instance(s):

Instance(s):

Instance(s):
00:00:045:2003/10/30 19:53:42.34 server Configuration file `/home/sybase/sybase-12.5.0.3/ASE-12_5/science` been written and the previous version has been renamed to `/home/sybase/sybase-12.5.0.3/ASE-12_5/science_1`.

00:00:045:2003/10/30 19:53:42.38 server The configuration option `number of remote connections` has been changed from `100` to `20`.

00:00:045:2003/10/30 19:54:14.30 server Configuration file `/home/sybase/sybase-12.5.0.3/ASE-12_5/science` been written and the previous version has been renamed to `/home/sybase/sybase-12.5.0.3/ASE-12_5/science_1`.

00:00:045:2003/10/30 19:54:14.33 server The configuration option `number of open databases` has been changed from `30` to `12`.

00:00:050:2003/10/30 22:37:42.63 server Configuration file `/home/sybase/sybase-12.5.0.3/ASE-12_5/science` been written and the previous version has been renamed to `/home/sybase/sybase-12.5.0.3/ASE-12_5/science_1`.

00:00:050:2003/10/30 22:37:42.69 server The configuration option `allow updates to system tables` has been changed from `0` to `1`.

00:00:050:2003/10/30 22:39:25.22 server Configuration file `/home/sybase/sybase-12.5.0.3/ASE-12_5/science` been written and the previous version has been renamed to `/home/sybase/sybase-12.5.0.3/ASE-12_5/science_1`.

00:00:050:2003/10/30 22:39:25.26 server The configuration option `allow updates to system tables` has been changed from `1` to `0`.

00:00:051:2003/10/30 22:40:14.18 server WARNING: ********************************************

00:00:051:2003/10/30 22:40:14.18 server Attempt by user 1 to dump xact on db master with NO_LOG was successful.

00:00:051:2003/10/30 22:40:14.19 server ERROR: ********************************************

00:00:051:2003/10/30 22:40:14.32 server The configuration option `allow updates to system tables` has been changed from `0` to `1`.

00:00:051:2003/10/30 22:40:15.84 server Configuration file `/home/sybase/sybase-12.5.0.3/ASE-12_5/science` been written and the previous version has been renamed to `/home/sybase/sybase-12.5.0.3/ASE-12_5/science_1`.

00:00:051:2003/10/30 22:40:15.90 server The configuration option `allow updates to system tables` has been changed from `1` to `0`.

00:00:000:2003/10/31 03:06:08.30 kernel ropacket: recv, Connection timed out
rlogin science: cwb = /apps/licensed/sybase;

Nov 5 14:02:48 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full
Nov 5 14:31:19 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full
Nov 5 15:02:36 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full
Nov 5 15:33:48 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full
Nov 5 16:02:05 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full
Nov 5 16:32:29 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full
Nov 5 17:01:36 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full
Nov 5 17:33:29 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full
Nov 5 18:02:36 sci-crunch root: [ID 70291] cron.crit /export/home1 is 100% full

[sybase@science:82] cd /carlin/scripts/
sybase@science:83] vi goldenestsuite.csh
[1] 28954
[sybase@science:84] pwd
/home/sybase/Carlin/scripts
[sybase@science:85] cd $SYBASE
[sybase@science:86] pwd
/apps/licensed/sybase-12.5
[sybase@science:87] echo $SYBASE

SQL Server
/apps/licensed/sybase
[sybase@science:88] echo $PATH

/usr/bin:/bin:/usr/sbin:/etc:/usr/local/bin:/usr/local/sbin:
/apps/licensed/scripts:/usr/local/bin:/usr/local/sbin:
/apps/licensed/scripts:/usr/local/bin:
/apps/trunk/ansi3004:
/apps/licensed/scripts:/usr/local/bin:
/apps/licensed/scripts:

/apps/licensed/scripts/sql

SQL Server
/apps/licensed/sql
-sql -carlin -sScience -u222 -G08 L1A

Password:

1. reset
2. create table TMAnalog专业技术
   (TMG smallint not null,
    TMG_cycle smallint not null,
    TMG_VCO int not null,
    TMG_ylabel double precision not null)

3. go

create unique clustered index Prof
on TMAnalog专业技术(TMID, TMG_cycle, TMG_VCO)
with ignore_dups_key on seg_analog

sp_hilite_index TMAnalog专业技术

2. go

Index_name Index_description

index_keys

index_num_rows_per_page index_fillfactor index_reservedpagegap index_created

Clustered, unique, ignore duplicate keys located on seg_analog

(TMID, TMG_cycle, TMG_VCO)

0 0 0 Nov 5 2003 6:36PM

[1 row affected]

Msg 137, Level 15, State 2:
Server 'science', line 1:
Must declare variable '@@server'.

1> select @@server
2> go

1> select @@version
2> go

Batch successfully bulk-copied to SQL Server.
1007616 rows sent to SQL Server.
2007040 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
3006464 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
4005888 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
5005312 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
6004736 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
7004160 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
8003584 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
9003008 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
10002432 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
11001856 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
12001280 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
13000704 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
14000128 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
15007744 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
16007168 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
17006592 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
18006016 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
19005440 rows sent to SQL Server.
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20004864 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
21004288 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
22003712 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
23003136 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
24002560 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
25001984 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
26001408 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
27000832 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
28000256 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
29007872 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
30007296 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
31006720 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
32006144 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
33005568 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
34004992 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
35004416 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
36003840 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.
37003264 rows sent to SQL Server.
Batch successfully bulk-copied to SQL Server.

37884382 rows copied.
Clock Time (ms.): total = 3224000  Avg = 0 (11750.74 rows per sec.)
{sybase@science:
ls -l tma*cut*
82 18:32 cd ~/Carin/scripts/
83 18:32 vi goldentestsuite.csh
84 18:32 pwd
85 18:33 cd $SYBASE
86 18:33 pwd
87 18:33 echo $SYBASE
88 18:33 echo $PATH
89 18:33 which ls
90 18:33 ls -Ucarin -Sscience -w222 -DGPA_L1A
91 18:40 vi gold
92 18:40 pwd
93 18:40 vi ~/Carin/scripts/goldentestsuite.csh
94 18:41 vi ~/Carin/scripts/goldentestsuite.csh
95 18:41 bcp ${db},${tbl} in ${data2}/init_bcp -n -Usa -P -A8192 -b1000000 -m 9000000 -e
96 18:41 echo $SYBASE
97 18:42 echo $PATH
98 18:44 echo $SYBASE
99 18:44 echo $PATH
100 18:44 which bcp
101 18:44 bcp GPB_L1A..TManalog_patch in /apps/supported/lasp-2.0/src/data/tmanalog.tmp.2435 -n -Usa -
102 18:45 echo $SYBASE
103 18:45 echo $SYBASE
104 18:45 which bcp
105 18:45 echo $SYBASE
106 18:45 echo $SYBASE
107 18:45 echo $PATH
108 18:45 which bcp
109 18:46 bcp GPB_L1A..TManalog_patch in /apps/supported/lasp-2.0/src/data/tmanalog.tmp.2435 -n -Ucarin
110 18:46 echo $SYBASE
111 18:46 echo $PATH
112 18:46 which bcp
113 18:46 bcp GPB_L1A..TManalog_patch in /apps/supported/lasp-2.0/src/data/tmanalog.tmp.2435 -n -Ucarin
114 19:55 bcp GPB_L1A..TManalog_patch out /carin/tmanalog.bcpn.prod.2435 -n -Ucarin -A8192 -b1000000 -
115 20:05 ls -l tma*
116 20:05 pwd
117 20:05 cd /carin
118 20:05 ls -l
119 20:06 mv tmanalog.bcpn.prod.2435 TManalog.bcpn.prod.2435
120 20:06 ls -l TManalog.bcpn.*
121 20:06 ls -l TManalog.bcpn.p*
122 20:06 diff TManalog.bcpn.prod.2435 TManalog.bcpn.pc.2435
123 20:08 n
base@science:124] diff TManalog.bcpn.prod.2435 TManalog.bcpn.pc.2435
base@science:125] ls -l TManalog.bcpn.p*
-r-------- 1 sybase sybase 606150112 Nov 1 02:04 TManalog.bcpn.pc.2435
-r-------- 1 sybase sybase 606150112 Nov 5 20:04 TManalog.bcpn.prod.2435
base@science:126] cmp TManalog.bcpn.prod.2435 TManalog.bcpn.pc.2435

$SYBASE
$PATH
ch bcp
base@science:127}
base@science:127]
base@science:127] echo $SYBASE
ps/licensed/sybase
base@science:128] echo $PATH
r:/openwin/bin:/home/sybase/bin:/usr/j2se/bin:/apps/supported/tex/bin:/sol2.sun4:/bin:/gnu/scripts:/usr/local/bin:/apps/supported/login/scripts:/apps/supported/login/bin:/sol2.sun4:/licensed/scripts:/apps/licensed/bin:/sol2.sun4:/apps/supported/scripts:/apps/sunos-5.8-sparc:/apps/sysadmin/bin:/sol2.sun4u:/apps/sysadmin/bin:/sol2.sun4:/apps/unsupported/scripts:a
r:/dt/bin:/usr/openwin/bin:/usr/ccs/bin:/usr:/usr/X11:/bin:/bin:/usr/bin:/usr/X11/bin:/usr/bin:
base@science:129} which bcp
ps/licensed/scripts/bcp
base@science:130}
```
WCommand=cd
A2
Suspended
[Command] 127 bg
[2] MP 8
[Command] ls
ping32681500.load ping32681500.spc ping32681500.tline ping32681500_02.load
ping32681500.dat ping32681500.obj ping32681500.sym ping32681500_01.load ping32681500_02.prc
ping32681500.lis ping32681500.rtf ping32681500.tag ping32681500_01.prc
[Command] pwd
/home/ron/stk43/mp_test moc1_regression_Prepatch/timeline/007ping_P1073_12.5.0.1

Command 1: ls
EcuPidReport_310_00_57_33 ping32681500.load ping32681500.spc ping32681500_01.prc
ping32681500.dat ping32681500.obj ping32681500.tag ping32681500_02.load
ping32681500.tline ping32681500_02.prc
ping32681500.lis ping32681500_sym ping32681500_01.load

Command 1: ls
diff EcuPidReport_310_00_57_33 ../007ping_P1073_12.5.0.3
diff: ./007ping_P1073_12.5.0.3/EcuPidReport_310_00_57_33: No such file or directory
Command 1: ls
diff EcuPidReport_310_00_56_53 ../007ping_P1073_12.5.0.3/EcuPidReport_310_00_56_53
Command 1: ls
diff EcuPidReport_310_00_57_33 ../007ping_P1073_12.5.0.3/EcuPidReport_310_00_56_53

< * Timestamp : Oct 29, 2003 17:21
> * Timestamp : Nov 07, 2003 00:57
```
the line containing `action -fpo` in .login_commands
and/or delete these lines.
You have new mail from:
From: ron@science.private.net Thu Feb 27 19:22:20 2003
From: rakowa@science.private.net Fri May 16 18:17:37 2003
From: ip@science.private.net Wed Jun 25 10:33:03 2003
From: MAILER-DAEMON@science.private.net Thu Aug 7 22:00:38 2003
From: ron@science.private.net Thu Aug 7 22:00:38 2003
From: ron@science.private.net Sat Aug 9 01:08:35 2003
From: ron@science.private.net Sat Aug 9 01:21:15 2003

Load:
5:26pm up 23 day(s), 12:34, 2 users, load average: 1.79, 1.46, 1.43

**ron@sci6:~$** source /home/sybase/sybase-12.5.0.3/SYBASE.csh
**ron@sci6:~$** echo $SYBASE
/home/sybase/sybase-12.5.0.3
**ron@sci6:~$** echo $SQUERY
science_pc
**ron@sci6:~$** which isql
/home/sybase/sybase-12.5.0.3/OCS-12.5/bin/isql
**ron@sci6:~$** echo $PATH
/home/sybase/sybase-12.5.0.3/OCS-12.5/bin:/home/sybase/sybase-12.5.0.3/OCS-12.5/bin:/home/sybase/sybase-12.5.0.3/CFG-1.0/bin:/usr/openwin/bin:/home/ron/bin/sol2.sun4:/home/ron/bin:/usr/j2ee/bin:/apps/supported/teTeX/bin/sol2.sun4:/apps/licensed/sunpro/SUNWsp ro/bin:/apps/gnu/scripts:/usr/local/bin:/apps/licensed:/apps/unsupported/bin/sol2.sun4:/apps/admin/scripts:/apps/admin/bin
**ron@sci6:~$**

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```
GPB_DATA
master tcp ether sci-crunch 4100
query tcp ether sci-crunch 4100

GPB
master tcp ether sci-crunch 4100
query tcp ether sci-crunch 4100

SYBASE
master tcp ether science 4100
query tcp ether science 4100

moc-server
master tcp ether science 4100
query tcp ether science 4100

moc-server_back
master tcp ether science 4200
query tcp ether science 4200

science_16K
master tcp ether science-sb 4301
query tcp ether science-sb 4301

science_16K_back
master tcp ether science-sb 4302
query tcp ether science-sb 4302

GPB_MOC
master tli tcp /dev/tcp \x00021004c0a801070000000000000000
query tli tcp /dev/tcp \x00021004c0a801070000000000000000

tqsm_server
master tli tcp /dev/tcp \x000213ecc0a801130000000000000000
query tli tcp /dev/tcp \x000213ecc0a801130000000000000000

tqsm_server_back
master tli tcp /dev/tcp \x00021450c0a801130000000000000000
query tli tcp /dev/tcp \x00021450c0a801130000000000000000

science
master tcp ether science 4100
query tcp ether science 4100

science_back
master tcp ether science 4200
query tcp ether science 4200

science_pc
master tcp ether sci-crunch 4100
query tcp ether sci-crunch 4100

science_pc_back
master tcp ether sci-crunch 4200
query tcp ether sci-crunch 4200

science_pc_mon
master tcp ether sci-crunch 4300
P1073 AS-RUN
ATTACHMENT 1 to S0960 Rev.
INTERACTIVE: ID number (from above list)?

```
{75} pwd
/home/science/od_ops/analysis/Regression_Testing/Sybase_Regression_12_5_0_1_e
{76} ODBIOU_vectors -mcmdops -pops2cmd -S
Enter the desired output filename
sybase_regression_12_5_0_1.e
Enter the desired start time
11/05/03 18:07:00
Enter the desired end time
11/06/03 00:00:00
Available data entered in ODDB at the following GMT times
  0  09/19/03  20:01:12 GPS data   --- GPS TOD 2003:265:21:00:00 20
  1  11/03/03  19:24:47 GPS data   MP GPS TOD 2003:309:18:07:02 B-S
  2  11/08/03  00:03:43 GPS data   ANA GPS TOD 2003:309:18:07:02 Sy
Enter the number of the desired set
2
{77} ls -ltr
total 426
-rw-rw-r-- 1 twalsh od 1159 Nov 3 19:14 termvu.txt
-rw-rw-r-- 1 twalsh od 1279 Nov 3 19:14 punch.txt.
-rw-rw-r-- 1 twalsh od 18207 Nov 3 19:14 outexc_odw.txt
-rw-rw-r-- 1 twalsh od 27612 Nov 3 19:14 outctl_odw.txt
-rw-rw-r-- 1 twalsh od 5326 Nov 3 19:14 kep_tod.txt
-rw-rw-r-- 1 twalsh od 107 Nov 3 19:14 filist.exc
-rw-rw-r-- 1 twalsh od 121 Nov 3 19:14 filist.ctl
-rw-rw-r-- 1 twalsh od 5360 Nov 3 19:14 car_tod.txt
-rw-rw-r-- 1 twalsh od 5361 Nov 3 19:14 car_ecf.txt
-rw-rw-r-- 1 twalsh od 66048 Nov 3 19:14 orbfil_tod_odw.dat
-rw-rw-r-- 1 twalsh od 66048 Nov 3 19:14 orbfil_j2000_odw.dat
-rw-rw-r-- 1 twalsh od 417 Nov 3 19:24 b_side_sim_nov05_0e.out
-rw-rw-r-- 1 twalsh od 757 Nov 3 19:27 inst_orbit_report.doc
-rw-rw-r-- 1 twalsh od 702 Nov 3 19:27 orbit_report_mean.doc
-rw-rw-r-- 1 twalsh od 302 Nov 3 19:31 b_side_sim_nov05.e
-rw-rw-r-- 1 twalsh od 169 Nov 3 23:16 ODBB_Mean_Vector.QA
-rw-rw-r-- 1 twalsh od 0 Nov 8 00:02 sybase_test_12_5_0_1_cov.o
-rw-rw-r-- 1 twalsh od 0 Nov 8 00:02 sybase_test_12_5_0_1_avg.o
-rw-rw-r-- 1 twalsh od 171 Nov 8 00:03 sybase_test_12_5_0_1_pv.o
-rw-rw-r-- 1 twalsh od 417 Nov 8 00:03 sybase_test_12_5_0_1_oe.o
-rw-rw-r-- 1 twalsh od 3735 Nov 8 00:03 sybase_test_12_5_0_1.out
-rw-rw-r-- 1 twalsh od 302 Nov 8 00:06 sybase_regression_12_5_0_1.e
```

{78} more sybase_regression_12_5_0_1.e

BEGIN Ephemeris
NumberOfEphemerisPoints 1
ScenarioEpoch 5 Nov 2003 18:07:02.0
CoordinateSystem TrueOfDate
EphemerisTimePosVel
  0.00 -3.387324790000000e+06 1.029992080000000e+06 6.054738610000004e+06
END Ephemeris

{79} landscape_s sybase_regression_12_5_0_1.e
[ 1 page * 1 copy ] spoiled to secondlp
request id is secondlp-46 (1 file)

{80}
stk.v.4.1.1
BEGIN Ephemeris
NumberOfEphemerisPoints 1
ScenarioEpoch 5 Nov 2003 18:07:02.0
CoordinateSystem TrueOfDate
EphemerisTimePosVel 0.00 3.387324790000000e+06 1.029992800000000e+06 6.054738610000000e+06 6.230405160000000e+03 -1.892370110000000e+03 3.798327630000000e+03
END Ephemeris
stk.v.4.1.1
BEGIN Ephemeris
NumberOfEphemerisPoints 1
ScenarioEpoch 5 Nov 2003 18:07:02.0
CoordinateSystem TrueOfDate
EphemerisTimePosVel
  0.00  -3.387324790000000e+06  1.029992080000000e+06  6.054738610000000e+06  6.230405160000000e+03  -1.892370110000000e+03  3.798327630000000e+03
END Ephemeris
stk.v.4.1.1
BEGIN Ephemeris
NumberOfEphemerisPoints 1
ScenarioEpoch 5 Nov 2003 18:07:02.0
CoordinateSystem TrueOfDate
EphemerisTimePosVel
  0.00  -3.387324790000000e+06  1.029992080000000e+06  6.
END Ephemeris

stk.v.4.1.1
BEGIN Ephemeris
NumberOfEphemerisPoints 1
ScenarioEpoch 5 Nov 2003 18:07:02.0
CoordinateSystem TrueOfDate
EphemerisTimePosVel
  0.00  -3.387324790000000e+06  1.029992080000000e+06
END Ephemeris
ans = 12.5.0.3 database

>> l1readTest
l2read test started
l2read test passed
l1read test started
l1read test passed
>> clear
>> ls

ans =
L1_OLD.mat  L1_OLDDATABASE.mat  l1readTest.m  L2connect.m  l2readWriteTest.m  testReadWrite.m~

>> who

Your variables are:

ans

>> load L1 vieille.m
>> ls

ans =
L1_OLD.mat  L1_OLDDATABASE.mat  l1readTest.m  L2connect.m  l2readWriteTest.m~

>> who

Your variables are:

ans
data1lread

>> newData = data1lread;
>> clear data1lread
>> who
untitled3

November 4, 2003

>> who
>> !echo $DSQUERY

science
>> 12readWriteTest
12read test started
12read test passed
12read test started
Original Data Size:
  21231  2

12read test passed
12write test started
   Adding monitor: 'sl_xma' ...
Added 21231 data points to the L2 database ( 21231 points per monitor ).
12write test passed
12read test started
12read second test passed
Data comparison test started
data comparison test passed
   Adding monitor: 'sl_xma' ...
Added 21231 data points to the L2 database ( 21231 points per monitor ).
12write test passed
Original Data Size:
  21231  2

The test succeeded.

>> ls

ans =

11.7_Level2.txt   L1_OLDDATABASE.mat   11readtest.txt   L2_OLDDATABASE.mat   12readWriteTest.m
L1_OLD.mat        11readTest.m          L2_OLD.mat        L2connect.m          testReadWrite.m

>> clear
>> load L2_OLD.mat
>> who

Your variables are:

data12original

>> size(12
120bitLook   12printParName   12readWriteTest   12write
12printPRMS   12read   12rollfast
>> size(data12original)

ans =
>> who
>> 12readWriteTest
12read test started
12read test passed
12read test started
Original Data Size:
   21231     2
12read test passed
12write test started
   Adding monitor: 'sl_xma' ...
Added 21231 data points to the L2 database ( 21231 points per monitor ).
12write test passed
12read test started
12read second test passed
Data comparison test started
data comparison test passed
   Adding monitor: 'sl_xma' ...
Added 21231 data points to the L2 database ( 21231 points per monitor ).
12write test passed
Original Data Size:
   21231     2
The test succeeded.

>> ls

ans =

    11.7_Level2.txt    L1_OLDDATABASE.mat    11readtest.txt    L2_OLDDATABASE.mat    12readWriteTest.m    testReadWrite.m-
   L1_OLD.mat         11readTest.m           L2_OLD.mat         L2ccnnect.m           Level2.12
   .5.01.txt
   
>> ls -l

ans =

   total 28382
-rw-r--r-- 1 vova users     3088 Nov 4 23:00 11.7_Level2.txt
-rw-r--r-- 1 vova users    6889512 Nov 4 22:26 L1_OLD.mat
-rw-r--r-- 1 vova users    6889512 Nov 4 22:20 L1_OLDDATABASE.mat
-rw-r--r-- 1 vova users       648 Nov 4 21:45 11readTest.m
-rw-r--r-- 1 vova users      1765 Nov 4 22:32 11readtest.txt
-rw-r--r-- 1 vova users     339896 Nov 4 23:40 L2_OLD.mat
-rw-r--r-- 1 vova users     339896 Nov 4 23:33 L2_OLDDATABASE.mat
-rw--------- 1 vova users       248 Nov 4 23:38 L2connect.m
-rw-rw-r-- 1 vova users     2094 Nov 4 23:32 12readWriteTest.m
-rw-r--r-- 1 vova users     1094 Nov 4 23:37 Level2.12.5.01.txt
-rw-r--r-- 1 vova users     1929 Nov 4 21:57 testReadWrite.m~
>> clear
>> load L2_OLDDATABASE.mat
>> who

Your variables are:

data12original

>> dataL2_12_5_01 = data12original;
>> clear data12original;
>> who

Your variables are:

dataL2_12_5_01

>> load L2_OLD.mat
>> who

Your variables are:

dataL2_12_5_01  data12original

>> find(dataL2_12_5_01==data12original)

ans =

    Empty matrix: 0-by-1

>> !echo DSQUERY
DSQUERY
>> 12.5 : 3