

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD
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Log #: 14064-14311

(Note: This form and process do not replace the procedures described in JPL Policy relating to review and approval of proposals and contractual documents. This process is intended to document the review and coordination of requests to ascertain the export control ramifications relating to specific documents. Export Administration signature does not convey authority to export or release the "Exporter of Record" from any export laws or regulations.)

**Program:** ISSM: Ice Sheet System Model

**Person Requesting or Initiating Export:** Dr. Eric Larour

**Date Received:** Feb-4-2013

**Document Title/Description:** ISSM changes from revision 14064 to revision 14311

**Release to:** <http://issm.ess.uci.edu/svn/issm/issm/trunk> on ISSM svn repository

**JPL Intranet:** [murdo.jpl.nasa.gov/proj/ice/larour/issm-uci/trunk-jpl](http://murdo.jpl.nasa.gov/proj/ice/larour/issm-uci/trunk-jpl)

**Disposition: 6** Does not contain export-controlled information. May be released/disclosed as requested subject to Company guidelines on protection of proprietary information (if applicable).

**Comments:** see table of changes below.

**Reviewed by ISSM Export Transfer Liaison:** Dr. Eric Larour      **Date:** Feb-4-2013



**Disposition:**

- 1: Public Domain Information (Ref ITAR Section 120.11)
  - 2: Qualifies for ITAR Exemption
  - 3: Covered by Department of State License/Agreement Number
  - 4: Covered by Department of Commerce validated license or exception
  - 5: New License Required
  - 6: Does not contain export-controlled information. May be released/disclosed as requested subject to Company guidelines on protection of proprietary information (if applicable).
  - 7: Other (specify)
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**Change #1** with diff file ISSM-14066-14067.diff:

Function name:

M /issm/trunk-jpl A /issm/trunk-jpl/configs/config-macosx64-simple.sh (from /issm/trunk/configs/config-macosx64-simple.sh:14065) A /issm/trunk-jpl/configs/config-macosx64.sh (from /issm/trunk/configs/config-macosx64.sh:14065)

Export determination: 6.

Rationale: merged trunk and trunk-jpl

**Change #2** with diff file ISSM-14068-14069.diff:

Function name:

M /issm/trunk-jpl M /issm/trunk-jpl/src M /issm/trunk-jpl/test

Export determination: 6.

Rationale: Block revision 14067 from being merged into trunk-jpl

**Change #3** with diff file ISSM-14069-14070.diff:

Function name:

A /issm/trunk-jpl/src/android/ISSM/jni/issmlib/libISSMCore.a

Export determination: 6.

Rationale: CHG: readding libISSMCore.a temporarily

**Change #4** with diff file ISSM-14070-14071.diff:

Function name:





jpl/src/android/ISSM/jni/gsl/gsl\_message.h A /issm/trunk-jpl/src/android/ISSM/jni/gsl/gsl\_min  
 A /issm/trunk-jpl/src/android/ISSM/jni/gsl/gsl\_minmax.h A /issm/trunk-  
 jpl/src/android/ISSM/jni/gsl/gsl\_mode.h A /issm/trunk-jpl/src/android/ISSM/jni/gsl/gsl\_monte  
 A /issm/trunk-jpl/src/android/ISSM/jni/gsl/gsl\_monte\_miser.h A /issm/trunk-  
 jpl/src/android/ISSM/jni/gsl/gsl\_monte\_plain.h A /issm/trunk-jpl/src/android/ISSM/jni/gsl/gsl  
 A /issm/trunk-jpl/src/android/ISSM/jni/gsl/gsl\_multifit.h A /issm/trunk-  
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 jpl/src/android/ISSM/jni/gsl/gsl\_permute\_vector\_char.h A /issm/trunk-  
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 jpl/src/android/ISSM/jni/gsl/gsl\_permute\_vector\_ushort.h A /issm/trunk-  
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Export determination: 6.  
Rationale: FIX: linking error with gsl and standard libs

**Change #9** with diff file ISSM-14079-14080.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/gsl/lib/Android.mk D /issm/trunk-jpl/src/android/ISSM/jni/gsl/lib/Android.mk

Export determination: 6.

Rationale: Remove: header files

**Change #10** with diff file ISSM-14080-14081.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/project.properties M /issm/trunk-jpl/src/android/ISSM\_Visual/AndroidManifest.xml

D /issm/trunk-jpl/src/android/ISSM\_Visual/src/com A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov

A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov/nasa A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov/nasa/jpl/issm A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov/nasa/jpl/issm/visual A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov/nasa/jpl/issm/visual/MyGLRenderer.java

A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov/nasa/jpl/issm/visual/MyGLSurfaceView.java

Export determination: 6.

Rationale: New directories to match with work place environment

**Change #11** with diff file ISSM-14081-14082.diff:



Function name:

M /issm/trunk-jpl/src/android/ISSM M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp

M /issm/trunk-jpl/src/android/ISSM/jni/issmlib/libISSMCore.a M /issm/trunk-

jpl/src/android/ISSM/project.properties M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ISSM.

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/IssmJni.java

Export determination: 6.

Rationale: CHG: calling the real constructor

**Change #12** with diff file ISSM-14082-14083.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/Android.mk M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp

M /issm/trunk-jpl/src/android/ISSM/jni/issmlib/Android.mk M /issm/trunk-

jpl/src/android/ISSM/jni/issmlib/libISSMCore.a M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm

M /issm/trunk-jpl/src/android/ISSM\_Visual/bin/AndroidManifest.xml M /issm/trunk-

jpl/src/android/ISSM\_Visual/bin/classes.dex M /issm/trunk-jpl/src/android/ISSM\_Visual/bin/resources.ap\_

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/classes/FemModel.cpp

M /issm/trunk-jpl/src/c/classes/FemModel.h M /issm/trunk-jpl/src/c/io/PrintfFunction.cpp

Export determination: 6.

Rationale: NEW: fixed unresolved symbols when using android logging capability (Android.mk). Introduced logging from libISSMCore.a directly into JNI using the `_pprintLine_` macro and android logging capabilities. Requires android ndk setup `-i` made corresponding mods in `src/c/io` and `m4/` and configs/ In short, we can now construct FemModel within the ISSM android app!

**Change #13** with diff file ISSM-14083-14084.diff:

Function name:

A /issm/trunk-jpl/src/android/ISSM/assets/Map A /issm/trunk-jpl/src/android/ISSM/assets/Map/antarctic

A /issm/trunk-jpl/src/android/ISSM/assets/Map/antarctica.petsc A /issm/trunk-

jpl/src/android/ISSM/assets/Map/greenland.bin A /issm/trunk-jpl/src/android/ISSM/assets/Map/greenland

Export determination: 6.

Rationale: CHG: android ISSM input files

**Change #14** with diff file ISSM-14084-14085.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp

Export determination: 6.

Rationale: CHG: changes to Main.cpp

**Change #15** with diff file ISSM-14085-14086.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/bin

Export determination: 6.

Rationale: CHG: get svn to ignore some files.

**Change #16** with diff file ISSM-14086-14087.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp M /issm/trunk-jpl/src/android/ISSM/src/com/example/i

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/IssmJni.java

Export determination: 6.

Rationale: CHG: some minor renaming

**Change #17** with diff file ISSM-14087-14088.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp

Export determination: 6.

Rationale: CHG: more renaming

**Change #18** with diff file ISSM-14088-14089.diff:

Function name:

M /issm/trunk-jpl/configs/config-arm-linux.sh M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: CHG: introduced android ndk for include files. Goal is to be able to use android logging

**Change #19** with diff file ISSM-14089-14090.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/assets/Map/antarctica.bin M /issm/trunk-jpl/src/android/ISSM/assets/Map/antarctica.petsc M /issm/trunk-jpl/src/android/ISSM/assets/Map/greenland.petsc

M /issm/trunk-jpl/src/android/ISSM/assets/Map/greenland.petsc M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp M /issm/trunk-jpl/src/android/ISSM/jni/issmlib/libISSMCore.a

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ISSM.java

Export determination: 6.

Rationale: CHG: created new routine in ISSM to output xyz array for all ver-

tices. New inputs files that come from android.m test file. We now create xyz in Main.cpp of the jni layer, then we create a patch upon completion of solve, and use xyz and the patch to fill in the buffer with vertex info and velocities.

**Change #20** with diff file ISSM-14090-14091.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Vertices.cpp M /issm/trunk-jpl/src/c/Container/Vertices.h  
M /issm/trunk-jpl/src/c/classes/objects/Vertex.cpp M /issm/trunk-jpl/src/c/classes/objects/Vertex.h

Export determination: 6.

Rationale: CHG: new xyz routine to create matrix of information about the vertices.

**Change #21** with diff file ISSM-14091-14092.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/android.m

Export determination: 6.

Rationale: NEW: android test case.

**Change #22** with diff file ISSM-14092-14093.diff:

Function name:

M /issm/trunk-jpl/src/m/mesh/squaremesh.m A /issm/trunk-jpl/src/m/mesh/squaremesh.py

Export determination: 6.

Rationale: NEW: Python version of squaremesh.

**Change #23** with diff file ISSM-14093-14094.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/python/io/FetchPythonData.cpp M /issm/trunk-jpl/src/wrappers/python/io/pythonio.h

Export determination: 6.

Rationale: NEW: Allow python scalars to be input rather than numpy 1x1 arrays.

**Change #24** with diff file ISSM-14094-14095.diff:

Function name:

M /issm/trunk-jpl/src/m/contrib/bamg/YamsCall.m A /issm/trunk-jpl/src/m/contrib/bamg/YamsCall.py

Export determination: 6.

Rationale: NEW: Python version of YamsCall.

**Change #25** with diff file ISSM-14095-14096.diff:

Function name:

M /issm/trunk-jpl/src/m/mesh/ComputeMetric.py M /issm/trunk-jpl/src/m/mesh/squaremesh.py

M /issm/trunk-jpl/src/m/miscellaneous/MatlabFuncs.py

Export determination: 6.

Rationale: CHG: Updates for python tests 1401 and 1402.

**Change #26** with diff file ISSM-14097-14098.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/python/io/FetchPythonData.cpp

Export determination: 6.

Rationale: NEW: Allow Python scalars to be embedded in one-element tuples or lists for module input.

**Change #27** with diff file ISSM-14098-14099.diff:

Function name:

M /issm/trunk-jpl/src/m/boundaryconditions/SetIceShelfBC.py M /issm/trunk-

jpl/src/m/boundaryconditions/SetMarineIceSheetBC.py M /issm/trunk-jpl/src/m/geometry/FlagElements.py

M /issm/trunk-jpl/src/m/mesh/ComputeMetric.m M /issm/trunk-jpl/src/m/mesh/ComputeMetric.py

M /issm/trunk-jpl/src/m/mesh/bamg.py M /issm/trunk-jpl/src/m/mesh/rifts/meshprocessoutsiderifts.py

M /issm/trunk-jpl/src/m/mesh/rifts/meshprocessrifts.py M /issm/trunk-jpl/src/wrappers/python/io/FetchPy

Export determination: 6.

Rationale: NEW: Allow Python vectors to be input to modules directly rather than reshaping to Mx1 matrices.

**Change #28** with diff file ISSM-14099-14100.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/objects/Vertex.cpp

Export determination: 6.

Rationale: CHG: xyz is an IssmDouble

**Change #29** with diff file ISSM-14100-14101.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Vertices.cpp M /issm/trunk-jpl/src/c/Container/Vertices.h

Export determination: 6.

Rationale: CHG double to IssmDouble

**Change #30** with diff file ISSM-14101-14102.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/pairoptions.m M /issm/trunk-jpl/src/m/classes/pairoptions.py

M /issm/trunk-jpl/src/m/classes/plotoptions.m M /issm/trunk-jpl/src/m/classes/settings.m

M /issm/trunk-jpl/src/m/classes/settings.py

Export determination: 6.

Rationale: CHG: Change default waitonlock to integer inf for python (plus other cosmetic changes).

**Change #31** with diff file ISSM-14102-14103.diff:

Function name:

D /issm/trunk-jpl/test/NightlyRun/InNeedOfDebugging/test1301.py D /issm/trunk-

jpl/test/NightlyRun/InNeedOfDebugging/test1302.py D /issm/trunk-jpl/test/NightlyRun/InNeedOfDebugging

D /issm/trunk-jpl/test/NightlyRun/InNeedOfDebugging/test1304.py M /issm/trunk-

jpl/test/NightlyRun/python\_skipped\_tests.txt M /issm/trunk-jpl/test/NightlyRun/test1301.m

A /issm/trunk-jpl/test/NightlyRun/test1301.py M /issm/trunk-jpl/test/NightlyRun/test1302.m

A /issm/trunk-jpl/test/NightlyRun/test1302.py M /issm/trunk-jpl/test/NightlyRun/test1303.m

A /issm/trunk-jpl/test/NightlyRun/test1303.py M /issm/trunk-jpl/test/NightlyRun/test1304.m

A /issm/trunk-jpl/test/NightlyRun/test1304.py M /issm/trunk-jpl/test/NightlyRun/test1401.m

M /issm/trunk-jpl/test/NightlyRun/test1402.m M /issm/trunk-jpl/test/Par/Pig.py

M /issm/trunk-jpl/test/Par/SquareSheetConstrained.py M /issm/trunk-jpl/test/Par/SquareSheetShelf.py

M /issm/trunk-jpl/test/Par/SquareShelf.py M /issm/trunk-jpl/test/Par/SquareShelfConstrained.py

M /issm/trunk-jpl/test/Par/SquareThermal.par A /issm/trunk-jpl/test/Par/SquareThermal.py

Export determination: 6.

Rationale: NEW: Working python tests 1301-1304 (plus cosmetic changes).

**Change #32** with diff file ISSM-14103-14104.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/timestepping.m M /issm/trunk-jpl/src/m/classes/timestepping.py  
Export determination: 6.  
Rationale: FIX: Fix md.timestepping defaults.

**Change #33** with diff file ISSM-14104-14105.diff:  
Function name:  
M /issm/trunk-jpl/src/m/miscellaneous/MatlabFuncs.py  
Export determination: 6.  
Rationale: NEW: Add heaviside function for python.

**Change #34** with diff file ISSM-14105-14106.diff:  
Function name:  
M /issm/trunk-jpl/src/m/solve/parseresultsfromdisk.py  
Export determination: 6.  
Rationale: FIX: Results in outbin are not necessarily in increasing step order.

**Change #35** with diff file ISSM-14106-14107.diff:  
Function name:  
M /issm/trunk-jpl/test/Par/RoundSheetEISMINT.par A /issm/trunk-jpl/test/Par/RoundSheetEISMINT.py  
M /issm/trunk-jpl/test/Par/RoundSheetStaticEISMINT.par A /issm/trunk-jpl/test/Par/RoundSheetStaticEISMINT.py  
M /issm/trunk-jpl/test/Par/SquareEISMINT.par A /issm/trunk-jpl/test/Par/SquareEISMINT.py  
Export determination: 6.  
Rationale: NEW: Parameter files for python tests 1200.

**Change #36** with diff file ISSM-14107-14108.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/python\_skipped\_tests.txt M /issm/trunk-jpl/test/NightlyRun/test1201.m A /issm/trunk-jpl/test/NightlyRun/test1201.py  
M /issm/trunk-jpl/test/NightlyRun/test1202.m A /issm/trunk-jpl/test/NightlyRun/test1202.py  
M /issm/trunk-jpl/test/NightlyRun/test1203.m A /issm/trunk-jpl/test/NightlyRun/test1203.py  
M /issm/trunk-jpl/test/NightlyRun/test1204.m A /issm/trunk-jpl/test/NightlyRun/test1204.py  
M /issm/trunk-jpl/test/NightlyRun/test1208.m A /issm/trunk-jpl/test/NightlyRun/test1208.py  
Export determination: 6.  
Rationale: NEW: Working python tests 1201-1204, 1208.

**Change #37** with diff file ISSM-14108-14109.diff:

Function name:

A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov/nasa/jpl/issm/visual/colormap

A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov/nasa/jpl/issm/visual/colormap/colormap.c

A /issm/trunk-jpl/src/android/ISSM\_Visual/src/gov/nasa/jpl/issm/visual/colormap/list\_of\_colormaps

Export determination: 6.

Rationale: C version of colormap and r,g,b extraction algorithm. To be translated into java

**Change #38** with diff file ISSM-14109-14110.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/AndroidManifest.xml M /issm/trunk-jpl/src/android/ISSM/gen/com/e

M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp M /issm/trunk-jpl/src/android/ISSM/project.properties

M /issm/trunk-jpl/src/android/ISSM/res/layout/activity\_issm.xml M /issm/trunk-

jpl/src/android/ISSM/src/com/example/issm/ISSM.java A /issm/trunk-jpl/src/android/ISSM/src/com/exam

A /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLSurfaceView.java

Export determination: 6.

Rationale: working android prototype

**Change #39** with diff file ISSM-14110-14111.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/assets/Map/antarctica.bin M /issm/trunk-

jpl/src/android/ISSM/assets/Map/greenland.bin M /issm/trunk-jpl/src/android/ISSM/bin/AndroidManifest.

M /issm/trunk-jpl/src/android/ISSM/res/layout/activity\_issm.xml M /issm/trunk-

jpl/src/android/ISSM/res/layout/activity\_mapselection.xml

Export determination: 6.

Rationale: CHG: position of xml layout

**Change #40** with diff file ISSM-14111-14112.diff:

Function name:

D /issm/trunk-jpl/src/android/ISSM/gen

Export determination: 6.

Rationale: DEL: being run time created by eclipse

**Change #41** with diff file ISSM-14112-14113.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/assets/Map/greenland.bin M /issm/trunk-jpl/src/android/ISSM/assets/Map/greenland.petsc

Export determination: 6.

Rationale: CHG: Greenland model

**Change #42** with diff file ISSM-14117-14118.diff:

Function name:

M /issm/trunk-jpl/src/c/solutions/EnvironmentInit.cpp

Export determination: 6.

Rationale: Added missing parenthesis

**Change #43** with diff file ISSM-14134-14135.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/python\_skipped\_tests.txt M /issm/trunk-jpl/test/NightlyRun/test1101.m A /issm/trunk-jpl/test/NightlyRun/test1101.py  
M /issm/trunk-jpl/test/NightlyRun/test1102.m A /issm/trunk-jpl/test/NightlyRun/test1102.py  
M /issm/trunk-jpl/test/NightlyRun/test1103.m A /issm/trunk-jpl/test/NightlyRun/test1103.py  
M /issm/trunk-jpl/test/NightlyRun/test1104.m A /issm/trunk-jpl/test/NightlyRun/test1104.py  
M /issm/trunk-jpl/test/NightlyRun/test1105.m A /issm/trunk-jpl/test/NightlyRun/test1105.py  
M /issm/trunk-jpl/test/NightlyRun/test1106.m A /issm/trunk-jpl/test/NightlyRun/test1106.py  
M /issm/trunk-jpl/test/NightlyRun/test1107.m A /issm/trunk-jpl/test/NightlyRun/test1107.py  
M /issm/trunk-jpl/test/NightlyRun/test1108.m A /issm/trunk-jpl/test/NightlyRun/test1108.py  
M /issm/trunk-jpl/test/NightlyRun/test1109.m M /issm/trunk-jpl/test/NightlyRun/test1110.m  
M /issm/trunk-jpl/test/NightlyRun/test1201.m M /issm/trunk-jpl/test/NightlyRun/test1201.py  
M /issm/trunk-jpl/test/NightlyRun/test1202.m M /issm/trunk-jpl/test/NightlyRun/test1205.m  
M /issm/trunk-jpl/test/NightlyRun/test1206.m M /issm/trunk-jpl/test/NightlyRun/test1207.m  
M /issm/trunk-jpl/test/Par/ISMIPA.par A /issm/trunk-jpl/test/Par/ISMIPA.py  
M /issm/trunk-jpl/test/Par/ISMIPB.par A /issm/trunk-jpl/test/Par/ISMIPB.py  
M /issm/trunk-jpl/test/Par/ISMIPC.par A /issm/trunk-jpl/test/Par/ISMIPC.py  
M /issm/trunk-jpl/test/Par/ISMIPD.par A /issm/trunk-jpl/test/Par/ISMIPD.py  
M /issm/trunk-jpl/test/Par/ISMIPE.par A /issm/trunk-jpl/test/Par/ISMIPE.py  
M /issm/trunk-jpl/test/Par/ISMIPF.par A /issm/trunk-jpl/test/Par/ISMIPF.py

Export determination: 6.

Rationale: NEW: Working python tests 1101-1108 (plus other cosmetic changes).

**Change #44** with diff file ISSM-14135-14136.diff:

Function name:



M /issm/trunk-jpl/test/Par/ISMIPE.par  
Export determination: 6.  
Rationale: CHG: Undo previous change.

**Change #45** with diff file ISSM-14138-14139.diff:  
Function name:  
D /issm/trunk-jpl/test/NightlyRun/InNeedOfDebugging/test218.py  
Export determination: 6.  
Rationale: CHG: All debugged – no longer needed.

**Change #46** with diff file ISSM-14139-14140.diff:  
Function name:  
D /issm/trunk-jpl/test/NightlyRun/InNeedOfDebugging  
Export determination: 6.  
Rationale: CHG: All debugged – no longer needed.

**Change #47** with diff file ISSM-14140-14141.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/initialization.py  
Export determination: 6.  
Rationale: CHG: surfacetemp and basalttemp not marshalled in matlab, so update python accordingly.

**Change #48** with diff file ISSM-14141-14142.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/balancethickness.py M /issm/trunk-jpl/src/m/classes/basalforcings.py  
M /issm/trunk-jpl/src/m/classes/constants.py M /issm/trunk-jpl/src/m/classes/debug.py  
M /issm/trunk-jpl/src/m/classes/diagnostic.py M /issm/trunk-jpl/src/m/classes/flowequation.py  
M /issm/trunk-jpl/src/m/classes/friction.py M /issm/trunk-jpl/src/m/classes/geometry.py  
M /issm/trunk-jpl/src/m/classes/groundingline.py M /issm/trunk-jpl/src/m/classes/hydrology.py  
M /issm/trunk-jpl/src/m/classes/inversion.m M /issm/trunk-jpl/src/m/classes/inversion.py  
M /issm/trunk-jpl/src/m/classes/mask.m M /issm/trunk-jpl/src/m/classes/mask.py  
M /issm/trunk-jpl/src/m/classes/matrice.m M /issm/trunk-jpl/src/m/classes/matrice.py  
M /issm/trunk-jpl/src/m/classes/mesh.py M /issm/trunk-jpl/src/m/classes/miscellaneous.py  
M /issm/trunk-jpl/src/m/classes/prognostic.py M /issm/trunk-jpl/src/m/classes/radaroverlay.py

M /issm/trunk-jpl/src/m/classes/rifts.py M /issm/trunk-jpl/src/m/classes/solver.py  
M /issm/trunk-jpl/src/m/classes/surfaceforcings.py M /issm/trunk-jpl/src/m/classes/thermal.py  
M /issm/trunk-jpl/src/m/classes/timestepping.py  
Export determination: 6.  
Rationale: CHG: Make all the matlab and python class output consistent.

**Change #49** with diff file ISSM-14142-14143.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/autodiff.m M /issm/trunk-jpl/src/m/classes/inversion.m  
M /issm/trunk-jpl/src/m/classes/solver.py

Export determination: 6.

Rationale: CHG: A few more.

**Change #50** with diff file ISSM-14144-14145.diff:

Function name:

M /issm/trunk-jpl/externalpackages/adolc/install-dev.sh M /issm/trunk-jpl/externalpackages/adolc/install-update-dev.sh

Export determination: 6.

Rationale: CHG temporarily fix the revision until a fix is committed by U of Paderborn and merged into the issm branch to undo a recent change of theirs I merged in from master branch

**Change #51** with diff file ISSM-14149-14150.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/model/model.m M /issm/trunk-jpl/src/m/classes/model/model.py

Export determination: 6.

Rationale: BUG: extrude was blowing up when md.dagnostic.icefront = NaN

**Change #52** with diff file ISSM-14150-14151.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test1402.m

Export determination: 6.

Rationale: BUG: fixed test 1402

**Change #53** with diff file ISSM-14151-14152.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/model/model.m M /issm/trunk-jpl/src/m/classes/model/model.py

Export determination: 6.

Rationale: CHG: reverting back: icefront is never NaN

**Change #54** with diff file ISSM-14153-14154.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/plotoptions.m

Export determination: 6.

Rationale: BUG: fix matlab complaining about Unrecognize Compiler pragma

**Change #55** with diff file ISSM-14156-14157.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive1205.nc M /issm/trunk-jpl/test/Archives/Archive1206.nc

M /issm/trunk-jpl/test/Archives/Archive1207.nc M /issm/trunk-jpl/test/Par/RoundSheetStaticEISMINT.par

M /issm/trunk-jpl/test/Par/RoundSheetStaticEISMINT.py

Export determination: 6.

Rationale: CHG: Eliminated roundoff errors in RoundSheetStaticEISMINT and updated appropriate archives.

**Change #56** with diff file ISSM-14157-14158.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/test1205.py A /issm/trunk-jpl/test/NightlyRun/test1206.py

A /issm/trunk-jpl/test/NightlyRun/test1207.py

Export determination: 6.

Rationale: NEW: Working python tests 1205-1207.

**Change #57** with diff file ISSM-14158-14159.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/python\_skipped\_tests.txt

Export determination: 6.

Rationale: NEW: Working python tests 1205-1207.

**Change #58** with diff file ISSM-14159-14160.diff:

Function name:

M /issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/classes/FemModel.cpp M /issm/trunk-jpl/src/c/classes/FemModel.h M /issm/trunk-jpl/src/c/classes/objects/Elements/Element.h M /issm/trunk-jpl/src/c/classes/objects/Elements/Penta.h M /issm/trunk-jpl/src/c/classes/objects/Elements/Tria.h M /issm/trunk-jpl/src/c/modules/EnumToStringx.cpp M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Control/UpdateElementsAndMaterialsControl.cpp M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp M /issm/trunk-jpl/src/c/solutions/AdjointCorePointerFromSolutionEnum.cpp M /issm/trunk-jpl/src/c/solutions/AnalysisConfiguration.cpp M /issm/trunk-jpl/src/c/solutions/CorePointerFromSolutionEnum.cpp M /issm/trunk-jpl/src/c/solutions/dummy\_core.cpp M /issm/trunk-jpl/src/c/solutions/objectivefunction.cpp M /issm/trunk-jpl/src/c/solutions/solutions.h

Export determination: 6.

Rationale: NEW: added weak balance thickness (Jonhson et al. 2013?)

**Change #59** with diff file ISSM-14160-14161.diff:

Function name:

A /issm/trunk-jpl/src/m/enum/BalancethicknessMisfitEnum.m M /issm/trunk-jpl/src/m/enum/EnumDefinitions.py M /issm/trunk-jpl/src/m/enum/MaximumNumberOfEnums.m A /issm/trunk-jpl/src/m/enum/OutputFileNameEnum.m D /issm/trunk-jpl/src/m/enum/OutputfilenameEnum.m A /issm/trunk-jpl/src/m/enum/WeakBalancethicknessAnalysisEnum.m A /issm/trunk-jpl/src/m/enum/WeakBalancethicknessSolutionEnum.m

Export determination: 6.

Rationale: CHG: sync Enums

**Change #60** with diff file ISSM-14161-14162.diff:

Function name:

M /issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h M /issm/trunk-jpl/src/c/modules/EnumToStringx/EnumToStringx.cpp M /issm/trunk-jpl/src/c/modules/OutputResultsx/OutputResultsx.cpp M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp

Export determination: 6.

Rationale: CHG: duplicate OutputFileNameEnum.m OutputfilenameEnum.m

**Change #61** with diff file ISSM-14162-14163.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/inversion.m M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.m M /issm/trunk-jpl/src/m/solve/process\_solve\_options.m

Export determination: 6.  
Rationale: NEW: added weak balance thickness

**Change #62** with diff file ISSM-14163-14164.diff:  
Function name:  
M /issm/trunk-jpl/src/c/solutions/AdjointCorePointerFromSolutionEnum.cpp  
Export determination: 6.  
Rationale: BUG: missing break statement

**Change #63** with diff file ISSM-14164-14165.diff:  
Function name:  
M /issm/trunk-jpl/src/c/modules/ModelProcessox/Control/CreateParametersControl.cpp  
M /issm/trunk-jpl/src/c/solutions/controltao\_core.cpp  
Export determination: 6.  
Rationale: CHG: not every field is necessary for tao

**Change #64** with diff file ISSM-14165-14166.diff:  
Function name:  
A /issm/trunk-jpl/src/m/classes/taoinversion.m  
Export determination: 6.  
Rationale: NEW: added taoinversion for inversion with tao (not every field is necessary + cost function is constant

**Change #65** with diff file ISSM-14166-14167.diff:  
Function name:  
M /issm/trunk-jpl/src/c/solutions/convergence.cpp  
Export determination: 6.  
Rationale: CHG: added assertion check to avoid crash

**Change #66** with diff file ISSM-14167-14168.diff:  
Function name:  
M /issm/trunk-jpl/src/c/solvers/solver\_newton.cpp  
Export determination: 6.

Rationale: NEW: fixed newton iteration solver (only one iteration needed)

**Change #67** with diff file ISSM-14168-14169.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/project.properties A /issm/trunk-jpl/src/android/ISSM/res/drawable-hdpi/issmlogo.jpg A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/antarctica.png  
A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/greenland.png A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/ic\_about.jpg A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/ic\_color.jpg M /issm/trunk-jpl/src/android/ISSM/res/layout/activity\_mapselection.xml  
A /issm/trunk-jpl/src/android/ISSM/res/menu/issm\_menu.xml A /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ColorMap.java M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ISSM.java M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLSurfaceView.java

Export determination: 6.

Rationale: Added: new look to ISSM android app, and color menu.

**Change #68** with diff file ISSM-14169-14170.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive428.nc M /issm/trunk-jpl/test/Archives/Archive429.nc  
M /issm/trunk-jpl/test/Archives/Archive430.nc

Export determination: 6.

Rationale: updated Newton's algorithm

**Change #69** with diff file ISSM-14170-14171.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/inversion.m M /issm/trunk-jpl/src/m/classes/taoinversion.m

Export determination: 6.

Rationale: NEW: added conversion constructor from taoinversion to inversion and viceversa

**Change #70** with diff file ISSM-14171-14172.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: CHG: added checks that gfortran and X11 libraries exist + added

suggestion from petsc and mpi

**Change #71** with diff file ISSM-14172-14173.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: BUG: fixed problem with use of awk input-meta

**Change #72** with diff file ISSM-14173-14174.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: BUG: graphics lib might be a file, not a directory

**Change #73** with diff file ISSM-14174-14175.diff:

Function name:

M /issm/trunk-jpl/externalpackages/export\_fig/export\_fig.m M /issm/trunk-jpl/externalpackages/export\_fig/g

M /issm/trunk-jpl/externalpackages/export\_fig/isolate\_axes.m M /issm/trunk-

jpl/externalpackages/export\_fig/pdftops.m M /issm/trunk-jpl/externalpackages/export\_fig/print2array.m

M /issm/trunk-jpl/externalpackages/export\_fig/print2eps.m

Export determination: 6.

Rationale: CHG: updated export\_fig

**Change #74** with diff file ISSM-14175-14176.diff:

Function name:

M /issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h M /issm/trunk-

jpl/src/c/classes/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/classes/objects/Elements/Tria.cpp

M /issm/trunk-jpl/src/c/modules/EnumToStringx/EnumToStringx.cpp M /issm/trunk-

jpl/src/c/modules/ModelProcessorx/Prognostic/UpdateElementsPrognostic.cpp

M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp M /issm/trunk-

jpl/src/c/shared/Numerics/UnitConversion.cpp M /issm/trunk-jpl/src/m/classes/surfaceforcings.m

Export determination: 6.

Rationale: update SMB gradients code

**Change #75** with diff file ISSM-14176-14177.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/pairoptions.m

Export determination: 6.

Rationale: NEW: added list of all unused option for plotmodel

**Change #76** with diff file ISSM-14177-14178.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plotmodel.m

Export determination: 6.

Rationale: NEW: list all unused options

**Change #77** with diff file ISSM-14178-14179.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/kmlgroundoverlay.m

Export determination: 6.

Rationale: NEW: use export\_fig instead of printmodel, and use transparent feature

**Change #78** with diff file ISSM-14179-14180.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/runme.m M /issm/trunk-jpl/test/NightlyRun/test328.m

M /issm/trunk-jpl/test/NightlyRun/test329.m

Export determination: 6.

Rationale: CHG: updating Michiel's NR + added check in runme so that the id makes sense

**Change #79** with diff file ISSM-14180-14181.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive328.nc

Export determination: 6.

Rationale: CHG: updating Michiel's NR



**Change #80** with diff file ISSM-14181-14182.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive329.nc

Export determination: 6.

Rationale: CHG: updating Michiel's NR

**Change #81** with diff file ISSM-14182-14183.diff:

Function name:

A /issm/trunk-jpl/src/m/miscellaneous/normcdf\_issm.m A /issm/trunk-jpl/src/m/miscellaneous/normfit\_issm.m

A /issm/trunk-jpl/src/m/miscellaneous/norminv\_issm.m M /issm/trunk-jpl/src/m/qmu/dakota\_cdfs.m

M /issm/trunk-jpl/src/m/qmu/dakota\_moments.m M /issm/trunk-jpl/src/m/qmu/dakota\_out\_parse.m

M /issm/trunk-jpl/src/m/qmu/plot/plot\_cdf.m M /issm/trunk-jpl/src/m/qmu/plot/plot\_hist\_norm.m

M /issm/trunk-jpl/src/m/qmu/plot/plot\_hist\_norm\_ci.m M /issm/trunk-jpl/src/m/qmu/plot/plot\_normdist\_b

M /issm/trunk-jpl/src/m/qmu/plot/plot\_rlevBars\_ci.m

Export determination: 6.

Rationale: CHG: Replaced calls to normfit/normcdf/norminv and applied error handling to tinv/chi2inv.

**Change #82** with diff file ISSM-14183-14184.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: BUG: FORTRAN\_LIB provided might be a directory

**Change #83** with diff file ISSM-14184-14185.diff:

Function name:

M /issm/trunk-jpl/src/m/enum/EnumDefinitions.py M /issm/trunk-jpl/src/m/enum/MaximumNumberOfEnum

D /issm/trunk-jpl/src/m/enum/SurfaceforcingsANegEnum.m D /issm/trunk-

jpl/src/m/enum/SurfaceforcingsAPosEnum.m D /issm/trunk-jpl/src/m/enum/SurfaceforcingsHcEnum.m

D /issm/trunk-jpl/src/m/enum/SurfaceforcingsSmbPosMaxEnum.m D /issm/trunk-

jpl/src/m/enum/SurfaceforcingsSmbPosMinEnum.m

Export determination: 6.

Rationale: BUG: sync enums on matlab side

**Change #84** with diff file ISSM-14185-14186.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM\_Visual/bin M /issm/trunk-jpl/src/android/ISSM\_Visual/gen

Export determination: 6.

Rationale: CHG: get svn to ignore some files

**Change #85** with diff file ISSM-14186-14187.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/Makefile.am M /issm/trunk-jpl/src/android/ISSM/project.properties

Export determination: 6.

Rationale: CHG: added one dependency to Makefile

**Change #86** with diff file ISSM-14187-14188.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/assets/Map/greenland.bin

Export determination: 6.

Rationale: CHG: better greenland model

**Change #87** with diff file ISSM-14188-14189.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp M /issm/trunk-jpl/src/android/ISSM/src/com/example/i

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLSurfaceView.java

Export determination: 6.

Rationale: CHG: better interpolation of colors

**Change #88** with diff file ISSM-14189-14190.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp M /issm/trunk-jpl/src/android/ISSM/jni/issmlib/libISSM

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ColorMap.java M

/issm/trunk-jpl/src/android/ISSM/src/com/example/issm/IssmJni.java

Export determination: 6.

Rationale: CHG: took out factorial example

**Change #89** with diff file ISSM-14190-14191.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test328.py M /issm/trunk-jpl/test/NightlyRun/test329.py

Export determination: 6.

Rationale: changed python scripts for SmbGradients NightlyRuns tests

**Change #90** with diff file ISSM-14191-14192.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/Makefile.am M /issm/trunk-jpl/src/android/ISSM/assets/Map/antarctica

M /issm/trunk-jpl/src/android/ISSM/assets/Map/antarctica.petsc M /issm/trunk-

jpl/src/android/ISSM/assets/Map/greenland.bin M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp

M /issm/trunk-jpl/src/android/ISSM/jni/issmlib/libISSMCore.a M /issm/trunk-

jpl/src/c/EnumDefinitions/EnumDefinitions.h M /issm/trunk-jpl/src/c/Makefile.am

D /issm/trunk-jpl/src/c/android M /issm/trunk-jpl/src/c/classes/FemModel.cpp

M /issm/trunk-jpl/src/c/modules/EnumToStringx/EnumToStringx.cpp M /issm/trunk-

jpl/src/c/modules/ModelProcessorx/DiagnosticHoriz/UpdateElementsDiagnosticHoriz.cpp

M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp A /issm/trunk-

jpl/src/m/enum/AndroidFrictionCoefficientEnum.m M /issm/trunk-jpl/src/m/enum/EnumDefinitions.py

M /issm/trunk-jpl/src/m/enum/MaximumNumberOfEnums.m

Export determination: 6.

Rationale: CHG: new enum for android. We copy friction coefficient into android friction coefficient to keep track of it on update.

**Change #91** with diff file ISSM-14192-14193.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLSurfaceView.java

Export determination: 6.

Rationale: CHG: scaling in x and y axis

**Change #92** with diff file ISSM-14193-14194.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ISSM.java

Export determination: 6.

Rationale: CHG: not much

**Change #93** with diff file ISSM-14194-14195.diff:

Function name:  
M /issm/trunk-jpl/src/c/classes/FemModel.cpp  
Export determination: 6.  
Rationale: BUG: cannot use Verbosity before ModelProcessorx

**Change #94** with diff file ISSM-14195-14196.diff:

Function name:  
A /issm/trunk-jpl/src/m/plot/kmlgridded.m M /issm/trunk-jpl/src/m/plot/plot\_gridded.m  
Export determination: 6.  
Rationale: NEW: added kml stuff with colorbar

**Change #95** with diff file ISSM-14196-14197.diff:

Function name:  
A /issm/trunk-jpl/src/m/miscellaneous/prctile\_issm.m M /issm/trunk-jpl/src/m/qmu/dakota\_out\_parse.m  
M /issm/trunk-jpl/src/m/qmu/plot/plot\_sampdistBars.m  
Export determination: 6.  
Rationale: CHG: Replaced calls to prctile.

**Change #96** with diff file ISSM-14197-14198.diff:

Function name:  
D /issm/trunk-jpl/externalpackages/gdal/GDALmake.opt.patch D /issm/trunk-jpl/externalpackages/gdal/GDALmake.opt.patch.astrid A /issm/trunk-jpl/externalpackages/gdal/configs  
A /issm/trunk-jpl/externalpackages/gdal/configs/GDALmake.opt.patch.astrid  
(from /issm/trunk-jpl/externalpackages/gdal/GDALmake.opt.patch.astrid:14168)  
A /issm/trunk-jpl/externalpackages/gdal/configs/GDALmake.opt.patch.murdo  
(from /issm/trunk-jpl/externalpackages/gdal/GDALmake.opt.patch:14168) M  
/issm/trunk-jpl/externalpackages/gdal/install-linux64-astrid.sh M /issm/trunk-jpl/externalpackages/gdal/install-linux64-murdo.sh  
Export determination: 6.  
Rationale: CHG: moved pathes to configs

**Change #97** with diff file ISSM-14198-14199.diff:

Function name:  
M /issm/trunk-jpl/src/m/classes/surfaceforcings.py M /issm/trunk-jpl/test/NightlyRun/test328.m  
M /issm/trunk-jpl/test/NightlyRun/test328.py M /issm/trunk-jpl/test/NightlyRun/test329.m

M /issm/trunk-jpl/test/NightlyRun/test329.py

Export determination: 6.

Rationale: CHG: Update python surfaceforcings to match matlab [14175] (plus related minor changes).

**Change #98** with diff file ISSM-14199-14200.diff:

Function name:

A /issm/trunk-jpl/externalpackages/gdal/install-1.6-linux64-astrid.sh (from /issm/trunk-jpl/externalpackages/gdal/install-linux64-astrid.sh:14197) A /issm/trunk-jpl/externalpackages/gdal/install-1.6-linux64-murdo.sh (from /issm/trunk-jpl/externalpackages/gdal/install-linux64-murdo.sh:14197) A /issm/trunk-jpl/externalpackages/gdal/install-1.6-macosx64.sh (from /issm/trunk-jpl/externalpackages/gdal/install-macosx64.sh:14168) A /issm/trunk-jpl/externalpackages/gdal/install-1.9-macosx64.sh D /issm/trunk-jpl/externalpackages/gdal/install-linux64-astrid.sh D /issm/trunk-jpl/externalpackages/gdal/install-linux64-murdo.sh D /issm/trunk-jpl/externalpackages/gdal/install-macosx64.sh

Export determination: 6.

Rationale: NEW: added new version of gdal, which provides gdal2tile.py very useful for kml

**Change #99** with diff file ISSM-14200-14201.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ISSM.java

Export determination: 6.

Rationale: seekBar implementation

**Change #100** with diff file ISSM-14201-14202.diff:

Function name:

A /issm/trunk-jpl/externalpackages/gdal/install-1.9-linux64.sh

Export determination: 6.

Rationale: NEW: added install-1.9-linux64.sh

**Change #101** with diff file ISSM-14202-14203.diff:

Function name:

M /issm/trunk-jpl/externalpackages/gdal/install-1.9-linux64.sh M /issm/trunk-jpl/externalpackages/gdal/install-1.9-macosx64.sh

Export determination: 6.

Rationale: minor

**Change #102** with diff file ISSM-14203-14204.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/Android.mk M /issm/trunk-jpl/src/android/ISSM/jni/gsl/lib/Andro

M /issm/trunk-jpl/src/android/ISSM/jni/issmlib/Android.mk

Export determination: 6.

Rationale: Fix: Make file for android

**Change #103** with diff file ISSM-14204-14205.diff:

Function name:

D /issm/trunk-jpl/src/android/ISSM/jni/gsl/lib/libsgsl.a D /issm/trunk-jpl/src/android/ISSM/jni/gsl/lib/libsg

D /issm/trunk-jpl/src/android/ISSM/jni/issmlib/libISSMCore.a

Export determination: 6.

Rationale: CHG: not needed anymore

**Change #104** with diff file ISSM-14205-14206.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/Makefile.am

Export determination: 6.

Rationale: CHG: rerouted the dependency on libISSMCore.a from jni to src/c/

**Change #105** with diff file ISSM-14206-14207.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/Makefile.am

Export determination: 6.

Rationale: CHG: better clean target

**Change #106** with diff file ISSM-14207-14208.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/jni/Main.cpp

Export determination: 6.

Rationale: CHG: pushed scaling of inputs

**Change #107** with diff file ISSM-14208-14209.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/res/layout/activity\_issm.xml M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ISSM.java M /issm/trunk-jpl/src/android/ISSM/src/com/exam

Export determination: 6.

Rationale: Fixed: Layout, and slider

**Change #108** with diff file ISSM-14210-14211.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/AndroidManifest.xml M /issm/trunk-jpl/src/android/ISSM/bin/AndroidManifest.xml A /issm/trunk-jpl/src/android/ISSM/res/anim A /issm/trunk-jpl/src/android/ISSM/res/anim/alpha.xml A /issm/trunk-jpl/src/android/ISSM/res/anim/translate.xml A /issm/trunk-jpl/src/android/ISSM/res/drawable-hdpi/background.jpg A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/intro.png A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/issm\_logo.png A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/start.png A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/video.png A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/visitus.png D /issm/trunk-jpl/src/android/ISSM/res/layout/activity\_issm.xml D /issm/trunk-jpl/src/android/ISSM/res/layout/activity\_mapselection.xml A /issm/trunk-jpl/src/android/ISSM/res/layout/issmcore.xml A /issm/trunk-jpl/src/android/ISSM/res/layout/issmmapselection.xml A /issm/trunk-jpl/src/android/ISSM/res/layout/main\_issm.xml A /issm/trunk-jpl/src/android/ISSM/res/layout/menupage.xml A /issm/trunk-jpl/src/android/ISSM/res/layout/popuptext.xml A /issm/trunk-jpl/src/android/ISSM/res/layout/splashscreen.xml A /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ColorBar.java M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ISSM.java D /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MapSelection.java A /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MenuPage.java M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLRenderer.java M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLSurfaceView.java A /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/SplashScreen.java A /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/VerticalSeekBar.java

Export determination: 6.

Rationale: Change ISSM app layout, add random Z coordinate

**Change #109** with diff file ISSM-14211-14212.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/model/model.py M /issm/trunk-jpl/src/m/geometry/FlagElements.py

M /issm/trunk-jpl/src/m/mesh/ElementsFromEdge.py A /issm/trunk-jpl/src/m/miscellaneous/PythonFuncs.  
M /issm/trunk-jpl/src/m/parameterization/setflowequation.py  
Export determination: 6.  
Rationale: NEW: Implement new python logical functions to get rid of ugly nesting.

**Change #110** with diff file ISSM-14212-14213.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test1101.py M /issm/trunk-jpl/test/NightlyRun/test1102.py  
M /issm/trunk-jpl/test/NightlyRun/test1103.py M /issm/trunk-jpl/test/NightlyRun/test1104.py  
M /issm/trunk-jpl/test/NightlyRun/test1105.py M /issm/trunk-jpl/test/NightlyRun/test1106.py  
M /issm/trunk-jpl/test/NightlyRun/test1107.py M /issm/trunk-jpl/test/NightlyRun/test1108.py

Export determination: 6.

Rationale: CHG: Get rid of more ugly Python logical nesting.

**Change #111** with diff file ISSM-14213-14214.diff:

Function name:

M /issm/trunk-jpl/scripts/DownloadExternalPackage.py

Export determination: 6.

Rationale: CHG: Modified DownloadExternalPackage.py to better meet Python coding conventions and included folding markers.

**Change #112** with diff file ISSM-14214-14215.diff:

Function name:

M /issm/trunk-jpl/scripts/DownloadExternalPackage.py

Export determination: 6.

Rationale: BUG: fixed indentation

**Change #113** with diff file ISSM-14215-14216.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/settings.m M /issm/trunk-jpl/src/m/classes/settings.py

Export determination: 6.

Rationale: CHG: updated the way waitonlock is marshalled to be more consistent



**Change #114** with diff file ISSM-14216-14217.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: CHG: removed old check

**Change #115** with diff file ISSM-14217-14218.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/MeshProfileIntersection/MeshProfileIntersection.cpp

Export determination: 6.

Rationale: CHG: MeshProfileIntersection now writes integers

**Change #116** with diff file ISSM-14218-14219.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am D /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/ElementSeg

D /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/ElementSegmentsIntersection.cpp

M /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/MeshProfileIntersectionx.cpp

M /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/MeshProfileIntersectionx.h

D /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/MeshSegmentsIntersection.cpp

D /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/NodeInElement.cpp

D /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/SegmentIntersect.cpp

D /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/intersect.m

Export determination: 6.

Rationale: CHG: MeshProfileIntersection now writes integers + lots of clean up

**Change #117** with diff file ISSM-14219-14220.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/MeshProfileIntersectionx.cpp

M /issm/trunk-jpl/src/c/modules/MeshProfileIntersectionx/MeshProfileIntersectionx.h

Export determination: 6.

Rationale: BUG: segments must remain double

**Change #118** with diff file ISSM-14220-14221.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/MeshProfileIntersection/MeshProfileIntersection.cpp

Export determination: 6.  
Rationale: BUG: segments must remain double

**Change #119** with diff file ISSM-14221-14222.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/TriMesh/TriMesh.cpp M /issm/trunk-jpl/src/wrappers/TriMeshProcessRifts  
M /issm/trunk-jpl/src/wrappers/matlab/io/WriteMatlabData.cpp M /issm/trunk-  
jpl/src/wrappers/matlab/io/matlabio.h M /issm/trunk-jpl/src/wrappers/python/io/FetchPythonData.cpp  
M /issm/trunk-jpl/src/wrappers/python/io/WritePythonData.cpp M /issm/trunk-  
jpl/src/wrappers/python/io/pythonio.h

Export determination: 6.

Rationale: CHG: index and segments are now integers

**Change #120** with diff file ISSM-14222-14223.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/RiftStruct.cpp M /issm/trunk-jpl/src/c/classes/RiftStruct.h  
M /issm/trunk-jpl/src/c/modules/TriMeshProcessRiftsx/TriMeshProcessRiftsx.cpp  
M /issm/trunk-jpl/src/c/modules/TriMeshProcessRiftsx/TriMeshProcessRiftsx.h  
M /issm/trunk-jpl/src/c/modules/TriMeshx/TriMeshx.cpp M /issm/trunk-jpl/src/c/modules/TriMeshx/TriM  
M /issm/trunk-jpl/src/c/shared/TriMesh/AssociateSegmentToElement.cpp M  
/issm/trunk-jpl/src/c/shared/TriMesh/OrderSegments.cpp M /issm/trunk-jpl/src/c/shared/TriMesh/SplitMe  
M /issm/trunk-jpl/src/c/shared/TriMesh/TriMeshUtils.cpp M /issm/trunk-jpl/src/c/shared/TriMesh/trimesh

Export determination: 6.

Rationale: CHG: index and segments are now integers

**Change #121** with diff file ISSM-14223-14224.diff:

Function name:

A /issm/trunk-jpl/src/m/plot/colormaps/landcolor.m A /issm/trunk-jpl/src/m/plot/colormaps/seacolor.m

Export determination: 6.

Rationale: NEW: added 2 new colormaps

**Change #122** with diff file ISSM-14224-14225.diff:

Function name:

A /issm/trunk-jpl/externalpackages/dem A /issm/trunk-jpl/externalpackages/dem/dem.m  
A /issm/trunk-jpl/externalpackages/dem/landcolor.m A /issm/trunk-jpl/externalpackages/dem/license.txt

A /issm/trunk-jpl/externalpackages/dem/seacolor.m  
Export determination: 6.  
Rationale: NEW: Added dem package to plot shaded relief

**Change #123** with diff file ISSM-14225-14226.diff:  
Function name:  
M /issm/trunk-jpl/startup.m  
Export determination: 6.  
Rationale: NEW: added dem package to startup file

**Change #124** with diff file ISSM-14226-14227.diff:  
Function name:  
M /issm/trunk-jpl/src/c/Container/Observations.cpp M /issm/trunk-jpl/src/c/Container/Observations.h  
M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp  
Export determination: 6.  
Rationale: NEW: Added distance output

**Change #125** with diff file ISSM-14227-14228.diff:  
Function name:  
M /issm/trunk-jpl/src/m/parameterization/contourenvelope.m  
Export determination: 6.  
Rationale: BUG: fixed bug for some elements on boundary

**Change #126** with diff file ISSM-14228-14229.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/organizer.m  
Export determination: 6.  
Rationale: CHG: organizer is now a handle so that we don't need to do assignin('caller',inputname(1),org);

**Change #127** with diff file ISSM-14229-14230.diff:  
Function name:  
M /issm/trunk-jpl/src/m/parameterization/contourenvelope.m

Export determination: 6.  
Rationale: BUG: fixed bug for some elements on boundary

**Change #128** with diff file ISSM-14230-14231.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/model/model.m  
Export determination: 6.  
Rationale: BUG: fixed extractions of results that are not structures

**Change #129** with diff file ISSM-14231-14232.diff:  
Function name:  
M /issm/trunk-jpl/src/m/parameterization/contourenvelope.py  
Export determination: 6.  
Rationale: CHG: updated python code accordingly

**Change #130** with diff file ISSM-14232-14233.diff:  
Function name:  
M /issm/trunk-jpl/src/wrappers/python/io/WritePythonData.cpp  
Export determination: 6.  
Rationale: NEW: Modify PythonWriteData to write actual python integers.

**Change #131** with diff file ISSM-14233-14234.diff:  
Function name:  
A /issm/trunk-jpl/externalpackages/gsl/install-greenplanet.sh  
Export determination: 6.  
Rationale: NEW: added installation script for gp

**Change #132** with diff file ISSM-14234-14235.diff:  
Function name:  
M /issm/trunk-jpl/src/wrappers/python/io/FetchPythonData.cpp M /issm/trunk-jpl/src/wrappers/python/io/WritePythonData.cpp M /issm/trunk-jpl/src/wrappers/python/io/pythonio.h  
Export determination: 6.  
Rationale: NEW: Added python read/write functions for booleans.

**Change #133** with diff file ISSM-14235-14236.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/TriMesh/TriMeshUtils.cpp

Export determination: 6.

Rationale: CHG: no need to cast to double anymore

**Change #134** with diff file ISSM-14236-14237.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/python/io/FetchPythonData.cpp

Export determination: 6.

Rationale: CHG: Allow more possibilities for reading python vectors.

**Change #135** with diff file ISSM-14237-14238.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/Krigingx/Krigingx.cpp M /issm/trunk-jpl/src/c/modules/Krigingx/Kriging

Export determination: 6.

Rationale: NEW: multithreading of distances output

**Change #136** with diff file ISSM-14238-14239.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/DataSet.cpp M /issm/trunk-jpl/src/c/Container/Observations.cpp

Export determination: 6.

Rationale: NEW: testing faster closest point search

**Change #137** with diff file ISSM-14239-14240.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/Observations.cpp

Export determination: 6.

Rationale: BUG: fixed crash, index undefined

**Change #138** with diff file ISSM-14240-14241.diff:  
Function name:  
M /issm/trunk-jpl/src/c/Container/Observations.cpp  
Export determination: 6.  
Rationale: CHG: improved sensitivity with respect to edges

**Change #139** with diff file ISSM-14241-14242.diff:  
Function name:  
M /issm/trunk-jpl/src/c/Container/Observations.cpp  
Export determination: 6.  
Rationale: BUG: fixed crash

**Change #140** with diff file ISSM-14242-14243.diff:  
Function name:  
M /issm/trunk-jpl/src/m/qmu/dakota\_out\_parse.m  
Export determination: 6.  
Rationale: NEW: dakota\_out\_parse.m updated for Dakota 5.2 (noting 4.3 still works).

**Change #141** with diff file ISSM-14243-14244.diff:  
Function name:  
A /issm/trunk-jpl/src/m/plot/plotboxpos.m  
Export determination: 6.  
Rationale: NEW: added plotboxpos.m very useful to get axis position

**Change #142** with diff file ISSM-14244-14245.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/kmlgroundoverlay.m  
Export determination: 6.  
Rationale: CHG: need to export using zbuffer to avoid matlab error

**Change #143** with diff file ISSM-14245-14246.diff:  
Function name:

M /issm/trunk-jpl/src/m/plot/plot\_mesh.py  
Export determination: 6.  
Rationale: CHG: equal aspect ratio by default for mesh plot

**Change #144** with diff file ISSM-14246-14247.diff:

Function name:

A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/blue.png A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/seek\_bg.9.png A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/thumb.png A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/whitepatch.9.png  
M /issm/trunk-jpl/src/android/ISSM/res/layout/issmcore.xml A /issm/trunk-jpl/src/android/ISSM/res/layout/seekbar\_progress.xml A /issm/trunk-jpl/src/android/ISSM/res/layout/seekbar  
M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLSurfaceView.java  
M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/VerticalSeekBar.java

Export determination: 6.

Rationale: Fix: SeekBar UI, Change:Back to 2D map

**Change #145** with diff file ISSM-14247-14248.diff:

Function name:

A /issm/trunk-jpl/src/android/ISSM/res/drawable-mdpi/btn\_lightblue\_glossy.9.png  
M /issm/trunk-jpl/src/android/ISSM/res/layout/issmcore.xml M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/VerticalSeekBar.java

Export determination: 6.

Rationale: Change:slider orientation, button background

**Change #146** with diff file ISSM-14248-14249.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plotmodel.py

Export determination: 6.

Rationale: BUG: index subplots starting with 1 instead of 0

**Change #147** with diff file ISSM-14249-14250.diff:

Function name:

M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/ISSM.java M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLRenderer.java M /issm/trunk-jpl/src/android/ISSM/src/com/example/issm/MyGLSurfaceView.java

Export determination: 6.  
Rationale: add rotation and pitch zoom

**Change #148** with diff file ISSM-14250-14251.diff:  
Function name:  
M /issm/trunk-jpl/src/c/Container/Observations.cpp  
Export determination: 6.  
Rationale: CHG: fixed issues when hmin =0

**Change #149** with diff file ISSM-14251-14252.diff:  
Function name:  
A /issm/trunk-jpl/src/m/os/dakotaversion.m A /issm/trunk-jpl/src/m/os/dakotaversion.py  
Export determination: 6.  
Rationale: NEW: dakotaversion for matlab and python.

**Change #150** with diff file ISSM-14252-14253.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/applyoptions.py M /issm/trunk-jpl/src/m/plot/plot\_manager.py  
M /issm/trunk-jpl/src/m/plot/plotmodel.py  
Export determination: 6.  
Rationale: CHG: updated default tick label notation, option for number of ticks  
in colorbar

**Change #151** with diff file ISSM-14253-14254.diff:  
Function name:  
M /issm/trunk-jpl/m4/issm\_options.m4  
Export determination: 6.  
Rationale: NEW: Added dakota version dependence into issm\_options.m4.

**Change #152** with diff file ISSM-14254-14255.diff:  
Function name:  
M /issm/trunk-jpl/m4/issm\_options.m4  
Export determination: 6.



Rationale: CHG: DAKOTA\_VERSION is a string, so output with quotes.

**Change #153** with diff file ISSM-14255-14256.diff:

Function name:

M /issm/trunk-jpl/src/m/os/dakotaversion.m M /issm/trunk-jpl/src/m/os/dakotaversion.py

Export determination: 6.

Rationale: CHG: get DAKOTA\_VERSION from config.h, rather than from externalpackage/dakota.

**Change #154** with diff file ISSM-14256-14257.diff:

Function name:

M /issm/trunk-jpl/src/m/os/dakotaversion.m M /issm/trunk-jpl/src/m/os/dakotaversion.py

Export determination: 6.

Rationale: CHG: minor cosmetic changes.

**Change #155** with diff file ISSM-14257-14258.diff:

Function name:

A /issm/trunk-jpl/src/m/plot/colormaps/demmap.m

Export determination: 6.

Rationale: NEW: added map for dem

**Change #156** with diff file ISSM-14258-14259.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: CHG: Add message for dakota version.

**Change #157** with diff file ISSM-14259-14260.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/latlonoverlay.m

Export determination: 6.

Rationale: added space between degree symbol and label in latlon

**Change #158** with diff file ISSM-14260-14261.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/checkplotoptions.m M /issm/trunk-jpl/src/m/plot/checkplotoptions.py

M /issm/trunk-jpl/src/m/plot/plotmodel.py

Export determination: 6.

Rationale: NEW: python version of checkplotoptions, fixed nlines in subplot call

**Change #159** with diff file ISSM-14261-14262.diff:

Function name:

M /issm/trunk-jpl/src/m/exp/expwrite.m

Export determination: 6.

Rationale: CHG: density not required anymore

**Change #160** with diff file ISSM-14262-14263.diff:

Function name:

M /issm/trunk-jpl/src/m/exp/expwrite.m

Export determination: 6.

Rationale: CHG: write filename as name by default

**Change #161** with diff file ISSM-14263-14264.diff:

Function name:

M /issm/trunk-jpl/src/c/solvers/solver\_thermal\_nonlinear.cpp

Export determination: 6.

Rationale: CHG: lowmem not needed

**Change #162** with diff file ISSM-14264-14265.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/qmu/@dakota\_method/dakota\_method.m M

/issm/trunk-jpl/src/m/classes/qmu/@dakota\_method/dmeth\_params\_write.m

Export determination: 6.

Rationale: NEW: Added rng keyword for newer versions of Dakota.

**Change #163** with diff file ISSM-14265-14266.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/qmu/@dakota\_method/dmeth\_params\_write.m

Export determination: 6.

Rationale: CHG: Be consistent with tabs.

**Change #164** with diff file ISSM-14266-14267.diff:

Function name:

M /issm/trunk-jpl/src/m/exp/expwrite.py

Export determination: 6.

Rationale: CHG: extended change to py

**Change #165** with diff file ISSM-14267-14268.diff:

Function name:

M /issm/trunk-jpl/src/m/exp/expwrite.py

Export determination: 6.

Rationale: CHG: Update python version with corresponding matlab changes.

**Change #166** with diff file ISSM-14268-14269.diff:

Function name:

A /issm/trunk-jpl/externalpackages/dakota/NIDRProblemDescDB.C.5.2.patch

A /issm/trunk-jpl/externalpackages/dakota/NonDLocalReliability.C.5.2.patch A

/issm/trunk-jpl/externalpackages/dakota/NonDSampling.C.5.2.patch A /issm/trunk-

jpl/externalpackages/dakota/NonDUnilevelRBDO.C.5.2.patch A /issm/trunk-

jpl/externalpackages/dakota/ParallelLibrary.C.5.2.patch A /issm/trunk-jpl/externalpackages/dakota/Parallel

A /issm/trunk-jpl/externalpackages/dakota/install-5.2-linux64-astrid.sh A /issm/trunk-

jpl/externalpackages/dakota/pecos\_global\_defs.hpp.5.2.patch

Export determination: 6.

Rationale: NEW: install and patches for Dakota 5.2.

**Change #167** with diff file ISSM-14269-14270.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test234.m

Export determination: 6.

Rationale: NEW: Update test234 for Dakota 5.2.

**Change #168** with diff file ISSM-14270-14271.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test234.m M /issm/trunk-jpl/test/NightlyRun/test235.m

M /issm/trunk-jpl/test/NightlyRun/test414.m

Export determination: 6.

Rationale: CHG: for Dakota tests, changed field names where appropriate.

**Change #169** with diff file ISSM-14271-14272.diff:

Function name:

M /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.C.5.2.patch

Export determination: 6.

Rationale: NEW: Added dakota version number to patch.

**Change #170** with diff file ISSM-14272-14273.diff:

Function name:

A /issm/trunk-jpl/externalpackages/dakota/LHSDriver.cpp.4.2.patch (from /issm/trunk-

jpl/externalpackages/dakota/LHSDriver.cpp.patch:14268) D /issm/trunk-jpl/externalpackages/dakota/LHSDr

A /issm/trunk-jpl/externalpackages/dakota/NIDRProblemDescDB.C.4.2.patch

(from /issm/trunk-jpl/externalpackages/dakota/NIDRProblemDescDB.C.patch:14268)

D /issm/trunk-jpl/externalpackages/dakota/NIDRProblemDescDB.C.patch A

/issm/trunk-jpl/externalpackages/dakota/NonDLocalReliability.C.4.2.patch (from

/issm/trunk-jpl/externalpackages/dakota/NonDLocalReliability.C.patch:14268)

D /issm/trunk-jpl/externalpackages/dakota/NonDLocalReliability.C.patch A /issm/trunk-

jpl/externalpackages/dakota/NonDSampling.C.4.2.patch (from /issm/trunk-jpl/externalpackages/dakota/Non

D /issm/trunk-jpl/externalpackages/dakota/NonDSampling.C.patch A /issm/trunk-

jpl/externalpackages/dakota/NonDUnilevelRBDO.C.4.2.patch (from /issm/trunk-

jpl/externalpackages/dakota/NonDUnilevelRBDO.C.patch:14268) D /issm/trunk-

jpl/externalpackages/dakota/NonDUnilevelRBDO.C.patch A /issm/trunk-jpl/externalpackages/dakota/Parall

(from /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.C.patch:14268)

D /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.C.patch A /issm/trunk-

jpl/externalpackages/dakota/ParallelLibrary.H.4.2.patch (from /issm/trunk-jpl/externalpackages/dakota/Para

D /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.H.patch A /issm/trunk-

jpl/externalpackages/dakota/install-4.2-altix64-cosmos.sh (from /issm/trunk-jpl/externalpackages/dakota/inst

altix64-cosmos.sh:14268) A /issm/trunk-jpl/externalpackages/dakota/install-4.2-

discover.sh (from /issm/trunk-jpl/externalpackages/dakota/install-discover.sh:14268)

A /issm/trunk-jpl/externalpackages/dakota/install-4.2-linux64-astrid.sh (from

/issm/trunk-jpl/externalpackages/dakota/install-linux64-astrid.sh:14268) A /issm/trunk-

jpl/externalpackages/dakota/install-4.2-linux64-cloud.sh (from /issm/trunk-jpl/externalpackages/dakota/install-4.2-linux64-cloud.sh:14268) A /issm/trunk-jpl/externalpackages/dakota/install-4.2-linux64-murdo.sh (from /issm/trunk-jpl/externalpackages/dakota/install-4.2-macosx64.sh:14268) A /issm/trunk-jpl/externalpackages/dakota/install-4.2-macosx64.sh (from /issm/trunk-jpl/externalpackages/dakota/install-macosx64.sh:14268) A /issm/trunk-jpl/externalpackages/dakota/install-4.2-pleiades-petsc3.3.sh (from /issm/trunk-jpl/externalpackages/dakota/install-4.2-pleiades-petsc3.3.sh:14268) A /issm/trunk-jpl/externalpackages/dakota/install-4.2-pleiades.sh (from /issm/trunk-jpl/externalpackages/dakota/install-4.2-pleiades.sh:14268) D /issm/trunk-jpl/externalpackages/dakota/install-altix64-cosmos.sh D /issm/trunk-jpl/externalpackages/dakota/install-discover.sh D /issm/trunk-jpl/externalpackages/dakota/install-linux64-astrid.sh D /issm/trunk-jpl/externalpackages/dakota/install-linux64-cloud.sh D /issm/trunk-jpl/externalpackages/dakota/install-linux64-murdo.sh D /issm/trunk-jpl/externalpackages/dakota/install-macosx64.sh D /issm/trunk-jpl/externalpackages/dakota/install-pleiades-petsc3.3.sh D /issm/trunk-jpl/externalpackages/dakota/install-pleiades.sh

Export determination: 6.

Rationale: CHG: Added version numbers to all Dakota install and patch files.

**Change #171** with diff file ISSM-14273-14274.diff:

Function name:

D /issm/trunk-jpl/externalpackages/dakota/LHSDriver.cpp.4.2.patch D /issm/trunk-jpl/externalpackages/dakota/NIDRProblemDescDB.C.4.2.patch D /issm/trunk-jpl/externalpackages/dakota/NIDRProblemDescDB.C.5.2.patch D /issm/trunk-jpl/externalpackages/dakota/NonDLocalReliability.C.4.2.patch D /issm/trunk-jpl/externalpackages/dakota/NonDLocalReliability.C.5.2.patch D /issm/trunk-jpl/externalpackages/dakota/NonDSampling.C.4.2.patch D /issm/trunk-jpl/externalpackages/dakota/NonDSampling.C.5.2.patch D /issm/trunk-jpl/externalpackages/dakota/NonDUnilevelRBDO.C.4.2.patch D /issm/trunk-jpl/externalpackages/dakota/NonDUnilevelRBDO.C.5.2.patch D /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.C.4.2.patch D /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.C.5.2.patch D /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.H.4.2.patch D /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.H.5.2.patch A /issm/trunk-jpl/externalpackages/dakota/configs/4.2 A /issm/trunk-jpl/externalpackages/dakota/configs/4.2 (from /issm/trunk-jpl/externalpackages/dakota/LHSDriver.cpp.4.2.patch:14272) A /issm/trunk-jpl/externalpackages/dakota/configs/4.2/NIDRProblemDescDB.C.patch (from /issm/trunk-jpl/externalpackages/dakota/NIDRProblemDescDB.C.4.2.patch:14272) A /issm/trunk-jpl/externalpackages/dakota/configs/4.2/NonDLocalReliability.C.patch (from /issm/trunk-jpl/externalpackages/dakota/NonDLocalReliability.C.4.2.patch:14272) A /issm/trunk-jpl/externalpackages/dakota/configs/4.2/NonDSampling.C.patch (from /issm/trunk-jpl/externalpackages/dakota/NonDSampling.C.4.2.patch:14272) A /issm/trunk-jpl/externalpackages/dakota/configs/4.2/NonDUnilevelRBDO.C.patch (from /issm/trunk-jpl/externalpackages/dakota/NonDUnilevelRBDO.C.4.2.patch:14272) A /issm/trunk-jpl/externalpackages/dakota/configs/4.2/ParallelLibrary.C.patch (from /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.C.4.2.patch:14272)

A /issm/trunk-jpl/externalpackages/dakota/configs/4.2/ParallelLibrary.H.patch  
 (from /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.H.4.2.patch:14272)  
 A /issm/trunk-jpl/externalpackages/dakota/configs/5.2 A /issm/trunk-jpl/externalpackages/dakota/configs/5.2  
 (from /issm/trunk-jpl/externalpackages/dakota/NIDRProblemDescDB.C.5.2.patch:14268)  
 A /issm/trunk-jpl/externalpackages/dakota/configs/5.2/NonDLocalReliability.C.patch  
 (from /issm/trunk-jpl/externalpackages/dakota/NonDLocalReliability.C.5.2.patch:14268)  
 A /issm/trunk-jpl/externalpackages/dakota/configs/5.2/NonDSampling.C.patch  
 (from /issm/trunk-jpl/externalpackages/dakota/NonDSampling.C.5.2.patch:14268)  
 A /issm/trunk-jpl/externalpackages/dakota/configs/5.2/NonDUnilevelRBDO.C.patch  
 (from /issm/trunk-jpl/externalpackages/dakota/NonDUnilevelRBDO.C.5.2.patch:14268)  
 A /issm/trunk-jpl/externalpackages/dakota/configs/5.2/ParallelLibrary.C.patch  
 (from /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.C.5.2.patch:14271)  
 A /issm/trunk-jpl/externalpackages/dakota/configs/5.2/ParallelLibrary.H.patch  
 (from /issm/trunk-jpl/externalpackages/dakota/ParallelLibrary.H.5.2.patch:14268)  
 A /issm/trunk-jpl/externalpackages/dakota/configs/5.2/pecos\_global\_defs.hpp.patch  
 (from /issm/trunk-jpl/externalpackages/dakota/pecos\_global\_defs.hpp.5.2.patch:14268)  
 M /issm/trunk-jpl/externalpackages/dakota/install-4.2-altix64-cosmos.sh M /issm/trunk-jpl/externalpackages/dakota/install-4.2-discover.sh  
 M /issm/trunk-jpl/externalpackages/dakota/install-4.2-linux64-astrid.sh M /issm/trunk-jpl/externalpackages/dakota/install-4.2-linux64-cloud.sh  
 M /issm/trunk-jpl/externalpackages/dakota/install-4.2-linux64-murdo.sh M /issm/trunk-jpl/externalpackages/dakota/install-4.2-macosx64.sh  
 M /issm/trunk-jpl/externalpackages/dakota/install-4.2-pleiades-petsc3.3.sh M /issm/trunk-jpl/externalpackages/dakota/install-4.2-pleiades.sh  
 M /issm/trunk-jpl/externalpackages/dakota/install-5.2-linux64-astrid.sh D /issm/trunk-jpl/externalpackages/dakota/pecos\_global\_defs.hpp.5.2.patch  
 Export determination: 6.  
 Rationale: CHG: Reorganize Dakota patches into sub-directories.

**Change #172** with diff file ISSM-14274-14275.diff:

Function name:

M /issm/trunk-jpl/externalpackages/dakota/install-5.2-linux64-astrid.sh

Export determination: 6.

Rationale: CHG: Dakota 5.2 now accessible from repository.

**Change #173** with diff file ISSM-14275-14276.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.py

Export determination: 6.

Rationale: BUG: colorbar has now been converted to 0 or 1 by checkplotoptions

**Change #174** with diff file ISSM-14276-14277.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.py

Export determination: 6.

Rationale: NEW: clim is the python equivalent of caxis in matlab, though colorbar ylims don't follow yet

**Change #175** with diff file ISSM-14277-14278.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4

Export determination: 6.

Rationale: CHG: Add Dakota version dependence for Mac and Win and fix indentation.

**Change #176** with diff file ISSM-14278-14279.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/organizer.m

Export determination: 6.

Rationale: CHG: added savedata and loaddata classes in organizer, very handy when a step does not act on a model, but you want to save an arbitrary number of variables

**Change #177** with diff file ISSM-14279-14280.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am A /issm/trunk-jpl/src/c/modules/Shp2Exp

A /issm/trunk-jpl/src/c/modules/Shp2Exp/Shp2Exp.cpp (from /issm/trunk-

jpl/src/c/modules/Shp2Kmlx/Shp2Kmlx.cpp:14016) A /issm/trunk-jpl/src/c/modules/Shp2Exp/Shp2Exp.

(from /issm/trunk-jpl/src/c/modules/Shp2Kmlx/Shp2Kmlx.h:14016) M /issm/trunk-

jpl/src/c/modules/modules.h A /issm/trunk-jpl/src/wrappers/Shp2Exp A /issm/trunk-

jpl/src/wrappers/Shp2Exp/Shp2Exp.cpp (from /issm/trunk-jpl/src/wrappers/Shp2Kml/Shp2Kml.cpp:14016)

A /issm/trunk-jpl/src/wrappers/Shp2Exp/Shp2Exp.h (from /issm/trunk-jpl/src/wrappers/Shp2Kml/Shp2Kml

M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am

Export determination: 6.

Rationale: NEW: Prototype of Shp2Exp matlab modules.

**Change #178** with diff file ISSM-14280-14281.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/bamg/Mesh.cpp

Export determination: 6.

Rationale: NEW: NodalConnectivity is now identical as mex module

**Change #179** with diff file ISSM-14281-14282.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/Shp2Expx/Shp2Expx.cpp

Export determination: 6.

Rationale: FIX: Working version of Shp2Exp.

**Change #180** with diff file ISSM-14282-14283.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/objects/KML/KML\_LineString.cpp M /issm/trunk-

jpl/src/c/classes/objects/KML/KML\_LinearRing.cpp M /issm/trunk-jpl/src/c/classes/objects/KML/KML\_P

Export determination: 6.

Rationale: NEW: Allow for 'no translation' option in WriteExp methods.

**Change #181** with diff file ISSM-14283-14284.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/Shp2Expx/Shp2Expx.cpp M /issm/trunk-jpl/src/c/modules/Shp2Expx/Shp

M /issm/trunk-jpl/src/wrappers/Shp2Exp/Shp2Exp.cpp M /issm/trunk-jpl/src/wrappers/Shp2Exp/Shp2Exp

Export determination: 6.

Rationale: CHG: Change Shp2Exp wrapper to remove transformation specs.

**Change #182** with diff file ISSM-14284-14285.diff:

Function name:

A /issm/trunk-jpl/CMakeLists.txt A /issm/trunk-jpl/src/CMakeLists.txt A /issm/trunk-

jpl/src/c/CMakeLists.txt A /issm/trunk-jpl/src/c/Container/CMakeLists.txt A

/issm/trunk-jpl/src/c/EnumDefinitions/CMakeLists.txt A /issm/trunk-jpl/src/c/classes/CMakeLists.txt

A /issm/trunk-jpl/src/c/classes/bamg/CMakeLists.txt A /issm/trunk-jpl/src/c/classes/dakota/CMakeLists.t

A /issm/trunk-jpl/src/c/classes/gauss/CMakeLists.txt A /issm/trunk-jpl/src/c/classes/kriging/CMakeLists.t

A /issm/trunk-jpl/src/c/classes/matrix/CMakeLists.txt A /issm/trunk-jpl/src/c/classes/objects/CMakeLists.

A /issm/trunk-jpl/src/c/classes/objects/Constraints/CMakeLists.txt A /issm/trunk-



jpl/src/c/classes/objects/ElementResults/CMakeLists.txt A /issm/trunk-jpl/src/c/classes/objects/Elements/  
 A /issm/trunk-jpl/src/c/classes/objects/ExternalResults/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/classes/objects/Inputs/CMakeLists.txt A /issm/trunk-jpl/src/c/classes/objects/KML/CMakeLists.t  
 A /issm/trunk-jpl/src/c/classes/objects/Loads/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/classes/objects/Materials/CMakeLists.txt A /issm/trunk-jpl/src/c/classes/objects/Options/CMakeL  
 A /issm/trunk-jpl/src/c/classes/objects/Params/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/include/CMakeLists.txt A /issm/trunk-jpl/src/c/io/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/io/Disk/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/AverageFilterx/CMakeLis  
 A /issm/trunk-jpl/src/c/modules/AverageOntoPartitionx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/BamgConvertMeshx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/BamgTriangulatex/  
 A /issm/trunk-jpl/src/c/modules/Bamgx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/modules/Chacox/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/ComputeBasalSt  
 A /issm/trunk-jpl/src/c/modules/ComputeStrainRatex/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/ConfigureObjectsx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/ConstraintsStatex/C  
 A /issm/trunk-jpl/src/c/modules/ContourToMeshx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/ContourToNodesx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/ControlInputGetGrad  
 A /issm/trunk-jpl/src/c/modules/ControlInputScaleGradientx/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/modules/ControlInputSetGradientx/CMakeLists.txt A  
 /issm/trunk-jpl/src/c/modules/CreateNodalConstraintsx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/Delta18oParameterizationx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/DragCoefficientAbsGradientx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/ElementConnectivityx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/EnumToStringx/  
 A /issm/trunk-jpl/src/c/modules/Exp2Kmlx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/GetSolutionFromInputsx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/GetVectorFrom  
 A /issm/trunk-jpl/src/c/modules/GetVectorFromInputsx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/Gradjx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/GroundinglineMigrationx/CMa  
 A /issm/trunk-jpl/src/c/modules/HoleFillerx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InputArtificialNoisex/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/InputControlUpda  
 A /issm/trunk-jpl/src/c/modules/InputConvergenex/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InputDuplicatex/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/InputScalex/CMakeLis  
 A /issm/trunk-jpl/src/c/modules/InputToResultx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InputUpdateFromConstantx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InputUpdateFromDakotax/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InputUpdateFromMatrixDakotax/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InputUpdateFromSolutionx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InputUpdateFromVectorDakotax/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InputUpdateFromVectorx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/InterpFromG  
 A /issm/trunk-jpl/src/c/modules/InterpFromMesh2dx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/InterpFromMeshToGridx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/InterpFromMe  
 A /issm/trunk-jpl/src/c/modules/InterpFromMeshToMesh3dx/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/modules/IoModelToConstraintsx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/KMLFileReadx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/KMLMeshWritex/CMa  
 A /issm/trunk-jpl/src/c/modules/KMLOverlayx/CMakeLists.txt A /issm/trunk-  
 jpl/src/c/modules/Kml2Expdx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/Krigingx/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/modules/Ll2xyx/CMakeLists.txt A /issm/trunk-jpl/src/c/modules/Mergesolutionfrom  
 A /issm/trunk-jpl/src/c/modules/MeshPartitionx/CMakeLists.txt A /issm/trunk-



A /issm/trunk-jpl/src/c/shared/Numerics/CMakeLists.txt A /issm/trunk-jpl/src/c/shared/Sorting/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/shared/String/CMakeLists.txt A /issm/trunk-jpl/src/c/shared/Threads/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/shared/TriMesh/CMakeLists.txt A /issm/trunk-jpl/src/c/solutions/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/solvers/CMakeLists.txt A /issm/trunk-jpl/src/c/toolkits/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/toolkits/issm/CMakeLists.txt A /issm/trunk-jpl/src/c/toolkits/metis/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/toolkits/metis/patches/CMakeLists.txt A /issm/trunk-jpl/src/c/toolkits/mpi/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/toolkits/mpi/patches/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/toolkits/petsc/CMakeLists.txt A /issm/trunk-jpl/src/c/toolkits/petsc/objects/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/toolkits/petsc/patches/CMakeLists.txt A /issm/trunk-jpl/src/c/toolkits/plapack/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/toolkits/plapack/patches/CMakeLists.txt  
 A /issm/trunk-jpl/src/c/toolkits/scalapack/CMakeLists.txt A /issm/trunk-jpl/src/c/toolkits/triangle/CMakeLists.txt  
 Export determination: 6.  
 Rationale: CHG: Introduction of CMake List files for source tree.

**Change #183** with diff file ISSM-14285-14286.diff:

Function name:

M /issm/trunk-jpl/externalpackages/adolc/install-dev.sh M /issm/trunk-jpl/externalpackages/adolc/install-update-dev.sh

Export determination: 6.

Rationale: CHG with the latest changes it should work with the current merged HEAD again

**Change #184** with diff file ISSM-14286-14287.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot\_BC.m

Export determination: 6.

Rationale: CHG: plot BC without dirichlet on

**Change #185** with diff file ISSM-14287-14288.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/IssmComm.cpp

Export determination: 6.

Rationale: CHG: openmpi incompatible, fixed bug

**Change #186** with diff file ISSM-14288-14289.diff:

Function name:

M /issm/trunk-jpl/externalpackages/gsl/install-android.sh A /issm/trunk-jpl/externalpackages/howatmask  
A /issm/trunk-jpl/externalpackages/howatmask/enviread.m A /issm/trunk-jpl/externalpackages/howatmask/s  
A /issm/trunk-jpl/externalpackages/metis/install-4.0-hoffman2.sh A /issm/trunk-  
jpl/externalpackages/petsc/install-3.2-hoffman2.sh

Export determination: 6.

Rationale: NEW: config files for ucla hoffman2 cluster + howats scripts

**Change #187** with diff file ISSM-14289-14290.diff:

Function name:

A /issm/trunk-jpl/configs/config-hoffman2.sh

Export determination: 6.

Rationale: NEW: ucla hoffman2 cluster config file

**Change #188** with diff file ISSM-14290-14291.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/IssmComm.cpp M /issm/trunk-jpl/src/c/classes/IssmComm.h

Export determination: 6.

Rationale: CHG: added SetComm(void) for matlab and python module. There  
is now a flag 'parallel' in IssmComm so that we always no wether MPI should  
be invoked

**Change #189** with diff file ISSM-14291-14292.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/matlab/include/wrapper\_macros.h M /issm/trunk-  
jpl/src/wrappers/python/include/wrapper\_macros.h

Export determination: 6.

Rationale: CHG: added SetComm(void) for matlab and python module. There  
is now a flag 'parallel' in IssmComm so that we always no wether MPI should  
be invoked

**Change #190** with diff file ISSM-14292-14293.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/IssmComm.cpp M /issm/trunk-jpl/src/c/include/globals.h

Export determination: 6.

Rationale: BUG: fixing new implementation of IssmComm

**Change #191** with diff file ISSM-14293-14294.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/shared/Elements/PrintArrays.cpp

M /issm/trunk-jpl/src/c/shared/Elements/elements.h D /issm/trunk-jpl/src/c/shared/Exp/DomainOutlineWrite.cpp

A /issm/trunk-jpl/src/c/shared/Exp/ExpWrite.cpp (from /issm/trunk-jpl/src/c/shared/Exp/DomainOutlineWrite.cpp)

M /issm/trunk-jpl/src/c/shared/Exp/exp.h

Export determination: 6.

Rationale: NEW: renamed DomainOutlineWrite to ExpWrite and added print-array for booleans

**Change #192** with diff file ISSM-14294-14295.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/Exp2Kml/Exp2Kml.h A /issm/trunk-jpl/src/wrappers/ExpSimplify

A /issm/trunk-jpl/src/wrappers/ExpSimplify/ExpSimplify.cpp A /issm/trunk-

jpl/src/wrappers/ExpSimplify/ExpSimplify.h M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am

Export determination: 6.

Rationale: New: Added ExpSimplify = Recursive Douglas-Peucker Polygon Simplification

**Change #193** with diff file ISSM-14295-14296.diff:

Function name:

M /issm/trunk-jpl/src/m/exp/expwrite.m

Export determination: 6.

Rationale: CHG: make sure x and y are columns

**Change #194** with diff file ISSM-14296-14297.diff:

Function name:

M /issm/trunk-jpl/src/m/mech/mechanicalproperties.m A /issm/trunk-jpl/src/m/mech/strainrateuncert.m

Export determination: 6.

Rationale: NEW: function to calculate error in strain rate components from velocity error

**Change #195** with diff file ISSM-14297-14298.diff:

Function name:

M /issm/trunk-jpl/src/m/exp/flowlines.m

Export determination: 6.

Rationale: use tsearch instead of TriaSearch

**Change #196** with diff file ISSM-14298-14299.diff:

Function name:

D /issm/trunk-jpl/src/m/kml/exp2kml.m

Export determination: 6.

Rationale: DEL: remove exp2kml.m, use mex instead

**Change #197** with diff file ISSM-14299-14300.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/colormaps/demmap.m M /issm/trunk-jpl/src/m/plot/colormaps/landcolor.m

Export determination: 6.

Rationale: CHG: updated landcolor (need 1.3 exponent)

**Change #198** with diff file ISSM-14300-14301.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.m M /issm/trunk-jpl/src/m/plot/plotmodel.m

Export determination: 6.

Rationale: CHG: resize figure before the actual plot so that the axes are properly set up (resizing afterwards never works, so we used to have to call the plot command twice

**Change #199** with diff file ISSM-14301-14302.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/pairoptions.m

Export determination: 6.

Rationale: CHG: if exist is called, set used as true

**Change #200** with diff file ISSM-14302-14303.diff:

Function name:  
M /issm/trunk-jpl/src/c/modules/NodeConnectivityx/NodeConnectivityx.cpp  
Export determination: 6.  
Rationale: CHG: increase maximum column size

**Change #201** with diff file ISSM-14303-14304.diff:

Function name:  
A /issm/trunk-jpl/src/m/io/getShapeTypeInfo.m  
Export determination: 6.  
Rationale: NEW: getShapeTypeInfo routine

**Change #202** with diff file ISSM-14304-14305.diff:

Function name:  
M /issm/trunk-jpl/src/wrappers/InternalFront/InternalFront.cpp M /issm/trunk-jpl/src/wrappers/InternalFront/InternalFront.h  
Export determination: 6.  
Rationale: CHG: updated to new wrapper interface

**Change #203** with diff file ISSM-14305-14306.diff:

Function name:  
M /issm/trunk-jpl/startup.m  
Export determination: 6.  
Rationale: CHG: add Howatt's code

**Change #204** with diff file ISSM-14306-14307.diff:

Function name:  
M /issm/trunk-jpl/src/m/classes/mask.m  
Export determination: 6.  
Rationale: CHG: updated mask to include mask on rock

**Change #205** with diff file ISSM-14307-14308.diff:

Function name:  
M /issm/trunk-jpl/src/m/classes/model/model.m

Export determination: 6.

Rationale: CHG: updated model to include new memory capability to figure out memory a model will take once saved

**Change #206** with diff file ISSM-14308-14309.diff:

Function name:

M /issm/trunk-jpl/configure.ac

Export determination: 6.

Rationale: CHG: updated version number before sync

**Change #207** with diff file ISSM-14309-14310.diff:

Function name:

M /issm/trunk-jpl

Export determination: 6.

Rationale: merged trunk and trunk-jpl