

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD
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Log #: 20545-21336

(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:** Nov-2-2016

**Document Title/Description:** ISSM changes from revision 20545 to revision 21336

**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:** Nov-2-2016



**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-20547-20548.diff:

Function name:

M /issm/trunk-jpl M /issm/trunk-jpl/jenkins/jenkins.sh M /issm/trunk-jpl/src  
M /issm/trunk-jpl/test

Export determination: 6.

Rationale: merged trunk and trunk-jpl

**Change #2** with diff file ISSM-20549-20550.diff:

Function name:

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

Export determination: 6.

Rationale: Block revision 20548 from being merged into trunk-jpl

**Change #3** with diff file ISSM-20550-20551.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/IdFromString.py M /issm/trunk-jpl/test/NightlyRun/test124.m

Export determination: 6.

Rationale: CHG: relaxing tolerances

**Change #4** with diff file ISSM-20551-20552.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: if new externalpackage is installed, need to reconfigure as well

**Change #5** with diff file ISSM-20552-20553.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: minor

**Change #6** with diff file ISSM-20553-20554.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-3.7-macosx64.sh M /issm/trunk-jpl/src/c/classes/Params/Parameters.cpp M /issm/trunk-jpl/src/c/cores/controltao\_core.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/objects/PetscSolver.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/PetscOptionsDetermineSolverType.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/PetscOptionsInsertMultipleString.cpp

Export determination: 6.

Rationale: CHG: added support for PETSc 3.7

**Change #7** with diff file ISSM-20554-20555.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-3.7-linux64.sh M /issm/trunk-jpl/jenkins/linux64\_ross M /issm/trunk-jpl/jenkins/linux64\_ross\_ad M /issm/trunk-jpl/jenkins/linux64\_ross\_ampi

Export determination: 6.

Rationale: CHG: trying out PETSc 3.7

**Change #8** with diff file ISSM-20555-20556.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Adding controlsensitivity for camera movement, tweaking default values.

**Change #9** with diff file ISSM-20556-20557.diff:

Function name:

D /issm/trunk-jpl/src/c/toolkits/plapack D /issm/trunk-jpl/src/c/toolkits/scalapack

Export determination: 6.

Rationale: DEL: cleaning up old code not even compiled

**Change #10** with diff file ISSM-20557-20558.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_caladan M /issm/trunk-jpl/jenkins/linux64\_ross

M /issm/trunk-jpl/jenkins/linux64\_ross\_ampi M /issm/trunk-jpl/jenkins/linux64\_ross\_gia

M /issm/trunk-jpl/jenkins/linux64\_ross\_iceocean M /issm/trunk-jpl/jenkins/linux64\_ross\_se

M /issm/trunk-jpl/jenkins/linux64\_ross\_test M /issm/trunk-jpl/jenkins/windows

M /issm/trunk-jpl/jenkins/windows-par

Export determination: 6.

Rationale: CHG: added scalapack

**Change #11** with diff file ISSM-20558-20559.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_caladan\_ampi M /issm/trunk-jpl/jenkins/linux64\_ross\_ampi

Export determination: 6.

Rationale: CHG: minor, removing slash at the end of mpi-libflags to avoid compiler warnings

**Change #12** with diff file ISSM-20559-20560.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: Adding chacolib req to libISSMModules.

**Change #13** with diff file ISSM-20560-20561.diff:

Function name:

A /issm/trunk-jpl/package/macosx-dakota A /issm/trunk-jpl/package/macosx-dakota/package.sh

Export determination: 6.

Rationale: ADD: addings new packager script specifically for MacOSX Dakota

binaries.

**Change #14** with diff file ISSM-20561-20562.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test211.m M /issm/trunk-jpl/test/NightlyRun/test211.py

M /issm/trunk-jpl/test/NightlyRun/test3019.py M /issm/trunk-jpl/test/NightlyRun/test3020.m

Export determination: 6.

Rationale: CHG: relaxing tolerances

**Change #15** with diff file ISSM-20562-20563.diff:

Function name:

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

D /issm/trunk-jpl/src/c/modules/InputScalex M /issm/trunk-jpl/src/c/modules/modules.h

Export determination: 6.

Rationale: DEL: removing 2 useless modules

**Change #16** with diff file ISSM-20563-20564.diff:

Function name:

M /issm/trunk-jpl/jenkins/windows

Export determination: 6.

Rationale: CHG: Removed scalapack from Jenkins Windows file.

**Change #17** with diff file ISSM-20564-20565.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: scalable plot.

**Change #18** with diff file ISSM-20565-20566.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot\_mesh.js M /issm/trunk-jpl/src/m/plot/plot\_overlay.js

M /issm/trunk-jpl/src/m/plot/plot\_quiver.js M /issm/trunk-jpl/src/m/plot/plot\_unit.js

Export determination: 6.

Rationale: CHG (javascript): Handling mesh3dsurface height scaling. Variable name clarification.

**Change #19** with diff file ISSM-20566-20567.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Reducing field of view for camera from 90 to 60 degrees.

**Change #20** with diff file ISSM-20567-20568.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test205.m M /issm/trunk-jpl/test/NightlyRun/test205.py

M /issm/trunk-jpl/test/NightlyRun/test211.m M /issm/trunk-jpl/test/NightlyRun/test211.py

Export determination: 6.

Rationale: CHG: relaxing tolerances

**Change #21** with diff file ISSM-20568-20569.diff:

Function name:

M /issm/trunk-jpl/configure.ac

Export determination: 6.

Rationale: CHG: updating version number

**Change #22** with diff file ISSM-20569-20570.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test211.m M /issm/trunk-jpl/test/NightlyRun/test211.py

Export determination: 6.

Rationale: CHG: relaxing tolerances

**Change #23** with diff file ISSM-20570-20571.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test211.m M /issm/trunk-jpl/test/NightlyRun/test211.py

Export determination: 6.

Rationale: CHG: relaxing tolerances

**Change #24** with diff file ISSM-20571-20572.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.m M /issm/trunk-jpl/src/m/classes/clusters/greenplanet.m

Export determination: 6.

Rationale: CHG: testing ISSM\_PREFIX for jenkins

**Change #25** with diff file ISSM-20572-20573.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.py

Export determination: 6.

Rationale: CHG: Same change as generic.m but for python.

**Change #26** with diff file ISSM-20573-20574.diff:

Function name:

M /issm/trunk-jpl/src/m/solvers/bcgsasmoptions.m M /issm/trunk-jpl/src/m/solvers/bcgobjacobioptions.m

M /issm/trunk-jpl/src/m/solvers/bcgsgamoptions.m M /issm/trunk-jpl/src/m/solvers/bcgsgasmoptions.m

M /issm/trunk-jpl/src/m/solvers/bcgshypreoptions.m M /issm/trunk-jpl/src/m/solvers/bcgobjacobioptions.m

M /issm/trunk-jpl/src/m/solvers/bcgslasmoptions.m M /issm/trunk-jpl/src/m/solvers/bcgobjacobioptions.m

M /issm/trunk-jpl/src/m/solvers/bcgslgamoptions.m M /issm/trunk-jpl/src/m/solvers/bcgslgasmoptions.m

Export determination: 6.

Rationale: CHG: getting rid of petscversion.

**Change #27** with diff file ISSM-20574-20575.diff:

Function name:

M /issm/trunk-jpl/src/m/solvers/bcgsasmoptions.m M /issm/trunk-jpl/src/m/solvers/bcgobjacobioptions.m

M /issm/trunk-jpl/src/m/solvers/bcgsgamoptions.m M /issm/trunk-jpl/src/m/solvers/bcgsgasmoptions.m

M /issm/trunk-jpl/src/m/solvers/bcgshypreoptions.m M /issm/trunk-jpl/src/m/solvers/bcgobjacobioptions.m

M /issm/trunk-jpl/src/m/solvers/bcgslasmoptions.m M /issm/trunk-jpl/src/m/solvers/bcgobjacobioptions.m

M /issm/trunk-jpl/src/m/solvers/bcgslgamoptions.m M /issm/trunk-jpl/src/m/solvers/bcgslgasmoptions.m

M /issm/trunk-jpl/src/m/solvers/bcgslhypreoptions.m M /issm/trunk-jpl/src/m/solvers/bcgobjacobioptions.m

M /issm/trunk-jpl/src/m/solvers/bcgslmgoptions.m M /issm/trunk-jpl/src/m/solvers/bcgobjacobioptions.m

M /issm/trunk-jpl/src/m/solvers/bcgslsroptions.m M /issm/trunk-jpl/src/m/solvers/bcgslmgoptions.m

M /issm/trunk-jpl/src/m/solvers/bcgslpbjacobioptions.m M /issm/trunk-jpl/src/m/solvers/bcgslsroptions.m





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M /issm/trunk-jpl/src/m/solvers/tfqmrmgoptions.m M /issm/trunk-jpl/src/m/solvers/tfqmrpbjacobioptions.m  
M /issm/trunk-jpl/src/m/solvers/tfqmrsoroptions.m

Export determination: 6.

Rationale: CHG: remopving petscversion

**Change #28** with diff file ISSM-20575-20576.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/FemModel.cpp  
Export determination: 6.  
Rationale: CHG: put the profiling information on step 0.

**Change #29** with diff file ISSM-20576-20577.diff:

Function name:  
M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence\_nonlinear.cpp  
Export determination: 6.  
Rationale: CHG: inform whether our stress balance core was stable!

**Change #30** with diff file ISSM-20577-20578.diff:

Function name:  
A /issm/trunk-jpl/src/m/solvers/bcgslnoneoptions.m A /issm/trunk-jpl/src/m/solvers/bcgsgnoneoptions.m  
A /issm/trunk-jpl/src/m/solvers/bicgnnoneoptions.m A /issm/trunk-jpl/src/m/solvers/cggnnoneoptions.m  
A /issm/trunk-jpl/src/m/solvers/cgnoneoptions.m A /issm/trunk-jpl/src/m/solvers/cgsgnoneoptions.m  
A /issm/trunk-jpl/src/m/solvers/crnnoneoptions.m A /issm/trunk-jpl/src/m/solvers/dgmresnoneoptions.m  
A /issm/trunk-jpl/src/m/solvers/fgmresnoneoptions.m A /issm/trunk-jpl/src/m/solvers/gcrnoneoptions.m  
A /issm/trunk-jpl/src/m/solvers/gltrnoneoptions.m A /issm/trunk-jpl/src/m/solvers/gmresnoneoptions.m  
A /issm/trunk-jpl/src/m/solvers/ibcgsgnoneoptions.m A /issm/trunk-jpl/src/m/solvers/iluasmoptions.pyc  
A /issm/trunk-jpl/src/m/solvers/issmgslsolver.pyc A /issm/trunk-jpl/src/m/solvers/issmmumpsolver.pyc  
A /issm/trunk-jpl/src/m/solvers/lcdnoneoptions.m A /issm/trunk-jpl/src/m/solvers/lqrnoneoptions.m  
A /issm/trunk-jpl/src/m/solvers/minresnoneoptions.m A /issm/trunk-jpl/src/m/solvers/mumpsoptions.pyc  
A /issm/trunk-jpl/src/m/solvers/richardsonnoneoptions.m A /issm/trunk-jpl/src/m/solvers/solvers  
A /issm/trunk-jpl/src/m/solvers/stcgnoneoptions.m A /issm/trunk-jpl/src/m/solvers/symmlqnoneoptions.m  
M /issm/trunk-jpl/src/m/solvers/tfqmrasmoptions.m A /issm/trunk-jpl/src/m/solvers/tfqmrnoneoptions.m  
Export determination: 6.  
Rationale: CHG: added none preconditioner.

**Change #31** with diff file ISSM-20578-20579.diff:

Function name:  
M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.js  
M /issm/trunk-jpl/src/c/shared/Enum/EnumToStringx.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringToEnum.cpp  
M /issm/trunk-jpl/src/m/enum/EnumDefinitions.js M /issm/trunk-jpl/src/m/enum/EnumDefinitions.py  
A /issm/trunk-jpl/src/m/enum/StressbalanceConvergenceNumStepsEnum.m  
Export determination: 6.  
Rationale: CHG: adding StressbalanceConvergenceNumStepsEnum result need  
to figure out whether solution converged.

**Change #32** with diff file ISSM-20579-20580.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plot\_manager.js

M /issm/trunk-jpl/src/m/plot/plot\_mesh.js M /issm/trunk-jpl/src/m/plot/plot\_overlay.js

M /issm/trunk-jpl/src/m/plot/plot\_unit.js

Export determination: 6.

Rationale: CHG (javascript): Addressing NaN data handling bugs and mask option.

**Change #33** with diff file ISSM-20580-20581.diff:

Function name:

M /issm/trunk-jpl/externalpackages/dakota/install-6.2-macosx64-yosemite.sh

Export determination: 6.

Rationale: CHG: remove acro and juga from dakota build

**Change #34** with diff file ISSM-20581-20582.diff:

Function name:

M /issm/trunk-jpl/externalpackages/dakota/install-6.2-macosx64-snowleopard.sh

Export determination: 6.

Rationale: CHG: remove acro and juga from mac dakota build

**Change #35** with diff file ISSM-20582-20583.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross A /issm/trunk-jpl/jenkins/linux64\_ross\_dakota

Export determination: 6.

Rationale: CHG: Removed Dakota and Boost from standard build. ADD: New Dakota specific Linux build to match MacOSX.

**Change #36** with diff file ISSM-20583-20584.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_dakota

Export determination: 6.

Rationale: CHG: Fixed typo in Matlab options.

**Change #37** with diff file ISSM-20584-20585.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot\_manager.js M /issm/trunk-jpl/src/m/plot/plot\_mesh.js  
M /issm/trunk-jpl/src/m/plot/plot\_overlay.js M /issm/trunk-jpl/src/m/plot/plot\_quiver.js  
M /issm/trunk-jpl/src/m/plot/plot\_unit.js M /issm/trunk-jpl/src/m/plot/plotmodel.js  
M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Resolving framerate issues.

**Change #38** with diff file ISSM-20585-20586.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot\_mesh.js M /issm/trunk-jpl/src/m/plot/plot\_quiver.js  
M /issm/trunk-jpl/src/m/plot/plot\_unit.js M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Fixing plot\_unit transient data not displaying.

Adding support for edgcolor for mesh and quiver plots.

**Change #39** with diff file ISSM-20586-20587.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plot\_manager.js  
M /issm/trunk-jpl/src/m/plot/plot\_mesh.js M /issm/trunk-jpl/src/m/plot/plot\_overlay.js  
M /issm/trunk-jpl/src/m/plot/plot\_quiver.js M /issm/trunk-jpl/src/m/plot/plot\_unit.js  
M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Resolving incorrect log scaling. Simplifying plot routines.

**Change #40** with diff file ISSM-20587-20588.diff:

Function name:

M /issm/trunk-jpl/externalpackages/dakota/install-6.2-intel15-discover.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-lonestar.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-pleiades.sh

Export determination: 6.

Rationale: CHG: remove acro and jega from 6.2 install scripts

**Change #41** with diff file ISSM-20588-20589.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js

Export determination: 6.

Rationale: CHG (javascript): New streamed binary response handling for ec2\_issm\_dev cluster.

**Change #42** with diff file ISSM-20589-20590.diff:

Function name:

D /issm/trunk-jpl/src/m/solvers/iluasmoptions.pyc D /issm/trunk-jpl/src/m/solvers/issmglsolver.pyc

D /issm/trunk-jpl/src/m/solvers/issmmumpsolver.pyc D /issm/trunk-jpl/src/m/solvers/mumpsoptions.pyc

Export determination: 6.

Rationale: DEL: do NOT commit pyc files

**Change #43** with diff file ISSM-20590-20591.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: could not read large floats

**Change #44** with diff file ISSM-20591-20592.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/test101.js A /issm/trunk-jpl/test/NightlyRun/test102.js

A /issm/trunk-jpl/test/NightlyRun/test104.js A /issm/trunk-jpl/test/NightlyRun/test106.js

Export determination: 6.

Rationale: Implement tests 101,102,104,106 (JS)

**Change #45** with diff file ISSM-20592-20593.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test102.js A /issm/trunk-jpl/test/NightlyRun/test103.js

M /issm/trunk-jpl/test/NightlyRun/test104.js A /issm/trunk-jpl/test/NightlyRun/test105.js

M /issm/trunk-jpl/test/NightlyRun/test106.js A /issm/trunk-jpl/test/NightlyRun/test107.js

A /issm/trunk-jpl/test/NightlyRun/test108.js A /issm/trunk-jpl/test/NightlyRun/test109.js

Export determination: 6.

Rationale: Fixed errors with 102,104,106, translated 103,105,107-109

**Change #46** with diff file ISSM-20593-20594.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/test201.js A /issm/trunk-jpl/test/NightlyRun/test202.js

A /issm/trunk-jpl/test/NightlyRun/test203.js A /issm/trunk-jpl/test/NightlyRun/test204.js

A /issm/trunk-jpl/test/NightlyRun/test205.js A /issm/trunk-jpl/test/NightlyRun/test206.js

A /issm/trunk-jpl/test/NightlyRun/test207.js A /issm/trunk-jpl/test/NightlyRun/test209.js

Export determination: 6.

Rationale: Translate test208.js Translate scripts 201-209, excluding 208

**Change #47** with diff file ISSM-20594-20595.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/test111.js A /issm/trunk-jpl/test/NightlyRun/test112.js

A /issm/trunk-jpl/test/NightlyRun/test113.js A /issm/trunk-jpl/test/NightlyRun/test114.js

A /issm/trunk-jpl/test/NightlyRun/test115.js

Export determination: 6.

Rationale: Translate tests 111-115

**Change #48** with diff file ISSM-20595-20596.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/ModelProcessorx/CreateOutputDefinitions.cpp

Export determination: 6.

Rationale: CHG: CreateOutputDefinitions bug fix (big one!)

**Change #49** with diff file ISSM-20596-20597.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/ModelProcessorx/CreateOutputDefinitions.cpp

Export determination: 6.

Rationale: CHG: fixing undeclared variable

**Change #50** with diff file ISSM-20597-20598.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js

Export determination: 6.  
Rationale: CHG (javascript): Adding progress streaming.

**Change #51** with diff file ISSM-20598-20599.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/clusters/generic.js  
Export determination: 6.  
Rationale: CHG (javascript): Fixing timeout length from 3 to 30 seconds. Re-formatting code.

**Change #52** with diff file ISSM-20599-20600.diff:  
Function name:  
M /issm/trunk-jpl/externalpackages/petsc/install-3.5-greenplanet.sh  
Export determination: 6.  
Rationale: CHG: better script

**Change #53** with diff file ISSM-20600-20601.diff:  
Function name:  
A /issm/trunk-jpl/externalpackages/petsc/install-3.7-greenplanet.sh  
Export determination: 6.  
Rationale: CHG: added install-3.7-greenplanet.sh

**Change #54** with diff file ISSM-20601-20602.diff:  
Function name:  
M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence\_linear.cpp  
Export determination: 6.  
Rationale: CHG: introducing threshold in linear solver.

**Change #55** with diff file ISSM-20602-20603.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp  
Export determination: 6.  
Rationale: CHG: do not scale by dt!



**Change #56** with diff file ISSM-20603-20604.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp

Export determination: 6.

Rationale: CHG: reverting the SMB change

**Change #57** with diff file ISSM-20604-20605.diff:

Function name:

M /issm/trunk-jpl/externalpackages/petsc/install-3.7-greenplanet.sh

Export determination: 6.

Rationale: CHG: fixed petsc 3.7 with new compilers

**Change #58** with diff file ISSM-20605-20606.diff:

Function name:

M /issm/trunk-jpl/externalpackages/petsc/install-3.7-greenplanet.sh

Export determination: 6.

Rationale: CHG: fixed petsc 3.7 with new compilers

**Change #59** with diff file ISSM-20606-20607.diff:

Function name:

A /issm/trunk-jpl/externalpackages/mpich/install-3.0-linux64-static.sh A /issm/trunk-jpl/externalpackages/petsc/install-3.6-linux64-static.sh A /issm/trunk-jpl/jenkins/linux64\_ross\_static

Export determination: 6.

Rationale: ADD: Adding Linux binaries Jenkins configure script. ADD: Static installation script for Petsc 3.6. ADD: Static installation script for MPICH 3.0.

**Change #60** with diff file ISSM-20607-20608.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_static

Export determination: 6.

Rationale: CHG: Fixed MPI lib option.

**Change #61** with diff file ISSM-20608-20609.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/AdjointHorizAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/StressbalanceA

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

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

M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/Materials/Material.h

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

M /issm/trunk-jpl/src/c/classes/Materials/Matpar.h

Export determination: 6.

Rationale: CHG: moving viscosity to material in preparation for new flow law

**Change #62** with diff file ISSM-20609-20610.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: testing new way to print steps

**Change #63** with diff file ISSM-20610-20611.diff:

Function name:

M /issm/trunk-jpl/packageagers/ubuntu/package.sh

Export determination: 6.

Rationale: CHG: Modified packager script to upload to ross.

**Change #64** with diff file ISSM-20611-20612.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: minor:

**Change #65** with diff file ISSM-20612-20613.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js M /issm/trunk-jpl/src/m/plot/plot\_unit.js

Export determination: 6.

Rationale: CHG: Removing extra print statement in generic.js. Movie slider now shows integer values only.

**Change #66** with diff file ISSM-20613-20614.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js

Export determination: 6.

Rationale: CHG (javascript): Cluster codeversion for generic.js.

**Change #67** with diff file ISSM-20614-20615.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js

Export determination: 6.

Rationale: CHG (javascript): Addressing response error caused by small model size by reducing minimum expected response size to from 65.5kb to 1kb.

**Change #68** with diff file ISSM-20615-20616.diff:

Function name:

M /issm/trunk-jpl/externalpackages/petsc/install-3.7-greenplanet.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-linux64.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-macosx64.sh

Export determination: 6.

Rationale: CHG: updated to 3.7.1

**Change #69** with diff file ISSM-20616-20617.diff:

Function name:

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

Export determination: 6.

Rationale: NEW: enabling inversions for frictiontemp

**Change #70** with diff file ISSM-20617-20618.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-3.7-hpc.sh

Export determination: 6.

Rationale: NEW: added install-3.7-hpc.sh

**Change #71** with diff file ISSM-20618-20619.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: fixing some compiler warnings

**Change #72** with diff file ISSM-20619-20620.diff:

Function name:

M /issm/trunk-jpl/externalpackages/autotools/install.sh

Export determination: 6.

Rationale: NEW: added m4 to list of packages needed to install (problem on discover and greenplanet where m4 is too old)

**Change #73** with diff file ISSM-20620-20621.diff:

Function name:

D /issm/trunk-jpl/externalpackages/autotools/install-discover.sh

Export determination: 6.

Rationale: DEL: not needed anymore

**Change #74** with diff file ISSM-20621-20622.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixing bamg compilation warnings

**Change #75** with diff file ISSM-20622-20623.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp A /issm/trunk-jpl/src/c/shared/Elements/CuffeyTem

M /issm/trunk-jpl/src/c/shared/Elements/elements.h M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinition

M /issm/trunk-jpl/src/c/shared/Enum/EnumToStringx.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringTo

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

M /issm/trunk-jpl/src/m/classes/matice.js M /issm/trunk-jpl/src/m/classes/matice.m

M /issm/trunk-jpl/src/m/classes/matrice.py A /issm/trunk-jpl/src/m/enum/CuffeyTemperateEnum.m  
M /issm/trunk-jpl/src/m/enum/EnumDefinitions.js M /issm/trunk-jpl/src/m/enum/EnumDefinitions.py  
A /issm/trunk-jpl/src/m/materials/cuffeytemperate.m A /issm/trunk-jpl/src/m/materials/cuffeytemperate.py  
Export determination: 6.  
Rationale: NEW: Cuffey rheology extended to temperate ice regions

**Change #76** with diff file ISSM-20623-20624.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp M /issm/trunk-jpl/src/c/shared/Elements/elements.h

Export determination: 6.

Rationale: BUG: missing input field added

**Change #77** with diff file ISSM-20624-20625.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp M /issm/trunk-jpl/src/c/shared/Elements/elements.h

Export determination: 6.

Rationale: BUG: temporary fix compilationerror

**Change #78** with diff file ISSM-20625-20626.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp

M /issm/trunk-jpl/src/c/shared/Elements/elements.h

Export determination: 6.

Rationale: CHG: fixed problem with CuffeyTemperate. The actual code was not included in Makefile.am

**Change #79** with diff file ISSM-20626-20627.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Elements/CuffeyTemperate.cpp

Export determination: 6.

Rationale: BUG: fixed include

**Change #80** with diff file ISSM-20627-20628.diff:

Function name:  
M /issm/trunk-jpl/src/c/shared/Elements/CuffeyTemperate.cpp  
Export determination: 6.  
Rationale: CHG: missing include

**Change #81** with diff file ISSM-20628-20629.diff:

Function name:  
M /issm/trunk-jpl/src/m/materials/cuffey.m M /issm/trunk-jpl/src/m/materials/cuffey.py  
M /issm/trunk-jpl/src/m/materials/cuffeytemperate.m M /issm/trunk-jpl/src/m/materials/cuffeytemperate.p  
Export determination: 6.  
Rationale: CHG: let cuffey return rigidity in size of input temperature

**Change #82** with diff file ISSM-20629-20630.diff:

Function name:  
M /issm/trunk-jpl/test/Archives/Archive436.nc M /issm/trunk-jpl/test/NightlyRun/test436.m  
Export determination: 6.  
Rationale: ADD: NR for CuffeyTemperate rheology

**Change #83** with diff file ISSM-20630-20631.diff:

Function name:  
M /issm/trunk-jpl/src/m/classes/clusters/greenplanet.m  
Export determination: 6.  
Rationale: minor

**Change #84** with diff file ISSM-20631-20632.diff:

Function name:  
M /issm/trunk-jpl/src/m/plot/gauge.js M /issm/trunk-jpl/src/m/plot/slider.js  
M /issm/trunk-jpl/src/m/plot/tooltips.js  
Export determination: 6.  
Rationale: CHG (javascript): Changing to use new css styles.

**Change #85** with diff file ISSM-20632-20633.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/gauge.js  
Export determination: 6.  
Rationale: CHG (javascript): Fixing gauge css styles.

**Change #86** with diff file ISSM-20633-20634.diff:

Function name:  
M /issm/trunk-jpl/src/m/plot/slider.js  
Export determination: 6.  
Rationale: CHG (javascript): Updating css styles.

**Change #87** with diff file ISSM-20634-20635.diff:

Function name:  
M /issm/trunk-jpl/src/c/classes/kriging/Quadtree.cpp  
Export determination: 6.  
Rationale: CHG: took care of warning

**Change #88** with diff file ISSM-20635-20636.diff:

Function name:  
M /issm/trunk-jpl/src/c/classes/FemModel.cpp M /issm/trunk-jpl/src/c/classes/IOModel.cpp  
M /issm/trunk-jpl/src/c/classes/Params/BoolParam.cpp M /issm/trunk-jpl/src/c/classes/Params/BoolParam.h  
M /issm/trunk-jpl/src/c/classes/Params/DataSetParam.cpp M /issm/trunk-jpl/src/c/classes/Params/DataSetParam.h  
M /issm/trunk-jpl/src/c/classes/Params/DoubleMatArrayParam.cpp M /issm/trunk-jpl/src/c/classes/Params/DoubleMatArrayParam.h  
M /issm/trunk-jpl/src/c/classes/Params/DoubleMatParam.h M /issm/trunk-jpl/src/c/classes/Params/DoubleParam.cpp  
M /issm/trunk-jpl/src/c/classes/Params/DoubleParam.h M /issm/trunk-jpl/src/c/classes/Params/DoubleVecParam.cpp  
M /issm/trunk-jpl/src/c/classes/Params/DoubleVecParam.h M /issm/trunk-jpl/src/c/classes/Params/FileParam.cpp  
M /issm/trunk-jpl/src/c/classes/Params/FileParam.h M /issm/trunk-jpl/src/c/classes/Params/GenericParam.h  
M /issm/trunk-jpl/src/c/classes/Params/IntMatParam.cpp M /issm/trunk-jpl/src/c/classes/Params/IntMatParam.h  
M /issm/trunk-jpl/src/c/classes/Params/IntParam.cpp M /issm/trunk-jpl/src/c/classes/Params/IntParam.h  
M /issm/trunk-jpl/src/c/classes/Params/IntVecParam.cpp M /issm/trunk-jpl/src/c/classes/Params/IntVecParam.h  
M /issm/trunk-jpl/src/c/classes/Params/MatrixParam.cpp M /issm/trunk-jpl/src/c/classes/Params/MatrixParam.h  
M /issm/trunk-jpl/src/c/classes/Params/Param.h M /issm/trunk-jpl/src/c/classes/Params/Parameters.cpp  
M /issm/trunk-jpl/src/c/classes/Params/Parameters.h M /issm/trunk-jpl/src/c/classes/Params/StringArrayParam.h  
M /issm/trunk-jpl/src/c/classes/Params/StringArrayParam.cpp M /issm/trunk-jpl/src/c/classes/Params/StringParam.h  
M /issm/trunk-jpl/src/c/classes/Params/TransientParam.cpp M /issm/trunk-jpl/src/c/classes/Params/TransientParam.h  
M /issm/trunk-jpl/src/c/classes/Params/VectorParam.cpp

M /issm/trunk-jpl/src/c/classes/Params/VectorParam.h M /issm/trunk-jpl/src/c/classes/Profiler.h  
M /issm/trunk-jpl/src/c/datastructures/DataSet.cpp M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Cre  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/ModelProcessorx.cpp M /issm/trunk-  
jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToString.cpp  
M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp  
Export determination: 6.  
Rationale: CHG: replaced Parameters by a static array

**Change #89** with diff file ISSM-20636-20637.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Params/Param.h M /issm/trunk-jpl/src/c/classes/Params/Parameters.cpp

Export determination: 6.

Rationale: BUG: fixed marshall demarshall for params

**Change #90** with diff file ISSM-20637-20638.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Dakota/IssmParallelDirectApplicInterface.cpp

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

M /issm/trunk-jpl/src/c/classes/Profiler.h

Export determination: 6.

Rationale: CHG: profilers are now 3 static arrays rather than parameters

**Change #91** with diff file ISSM-20638-20639.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Params/Parameters.cpp M /issm/trunk-jpl/src/c/shared/Exceptions/Except

Export determination: 6.

Rationale: CHG: implemented Parameters-;Copy for dakota

**Change #92** with diff file ISSM-20639-20640.diff:

Function name:

M /issm/trunk-jpl/jenkins/windows

Export determination: 6.

Rationale: CHG: Deactivating test125 and 126 from Windows build since they  
do not work and they break everything else by hanging up the build.



**Change #93** with diff file ISSM-20640-20641.diff:

Function name:

M /issm/trunk-jpl/src/m/psl/sharmonics.m

Export determination: 6.

Rationale: CHG: minor

**Change #94** with diff file ISSM-20641-20642.diff:

Function name:

M /issm/trunk-jpl/src/m/psl/shlm.m

Export determination: 6.

Rationale: CHG: minor

**Change #95** with diff file ISSM-20642-20643.diff:

Function name:

M /issm/trunk-jpl/src/m/psl/shlm\_element.m

Export determination: 6.

Rationale: CHG: make comparable with 4pi normalization

**Change #96** with diff file ISSM-20643-20644.diff:

Function name:

A /issm/trunk-jpl/src/m/classes/matbafl.m

Export determination: 6.

Rationale: NEW: added new material for Budd and al. 2013

**Change #97** with diff file ISSM-20644-20645.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/analyses/StressbalanceAnalysis.cpp

M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp A /issm/trunk-jpl/src/c/classes/Materials/Matbafl.cpp

A /issm/trunk-jpl/src/c/classes/Materials/Matbafl.h M /issm/trunk-jpl/src/c/classes/Materials/Matpar.cpp

M /issm/trunk-jpl/src/c/classes/classes.h M /issm/trunk-jpl/src/c/modules/ModelProcessors/CreateElement

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp M /issm/trunk-jpl/src/c/shared/Exceptions/Exce

M /issm/trunk-jpl/src/m/classes/matbafl.m M /issm/trunk-jpl/src/m/enum/EnumDefinitions.js

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

A /issm/trunk-jpl/src/m/enum/MaterialsRheologyEcEnum.m A /issm/trunk-

jpl/src/m/enum/MaterialsRheologyEsEnum.m A /issm/trunk-jpl/src/m/enum/MaterialsRheologyKoEnum.m  
A /issm/trunk-jpl/src/m/enum/ParametersENDEnum.m A /issm/trunk-jpl/src/m/enum/ParametersSTARTEnum.m  
D /issm/trunk-jpl/src/m/enum/SealevelriseEustaticEnum.m  
Export determination: 6.  
Rationale: NEW: added BAFL (Budd Anisotropic Flow Law) flow law

**Change #98** with diff file ISSM-20645-20646.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/BalancethicknessAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/DamageEvolutionAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp  
M /issm/trunk-jpl/src/c/analyses/FreeSurfaceTopAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologyDCEfficientAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologyDCInefficientAnalysis.cpp  
M /issm/trunk-jpl/src/c/analyses/HydrologyShreveAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologySommersAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/L2ProjectionEPLAnalysis.cpp  
M /issm/trunk-jpl/src/c/analyses/LevelsetAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/MassTransportAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/SmbAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/StressbalanceAnalysis.cpp  
M /issm/trunk-jpl/src/c/analyses/StressbalanceSIAAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/StressbalanceVerticalAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/ThermalAnalysis.cpp  
M /issm/trunk-jpl/src/c/analyses/UzawaPressureAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tetra.cpp  
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/FemModel.cpp  
M /issm/trunk-jpl/src/c/classes/IOModel.cpp M /issm/trunk-jpl/src/c/classes/IOModel.h  
M /issm/trunk-jpl/src/c/classes/Loads/Riftfront.cpp M /issm/trunk-jpl/src/c/classes/Materials/Matrice.cpp  
M /issm/trunk-jpl/src/c/classes/Materials/Matpar.cpp M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Auxiliary.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Control/CreateParametersControl.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Control/UpdateElementsAndMaterialsControl.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/CreateElementsVerticesAndMaterials.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/CreateParameters.cpp M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Dakota/CreateParametersDakota.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Dakota/UpdateElementsAndMaterialsDakota.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/ElementsAndVerticesPartitioning.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/ModelProcessorx.cpp M /issm/trunk-jpl/src/c/modules/SurfaceMassBalance/SurfaceMassBalance.cpp

Export determination: 6.

Rationale: CHG: some renaming to prepare for change in IOModel structure

**Change #99** with diff file ISSM-20646-20647.diff:

Function name:

M /issm/trunk-jpl/src/c/datastructures/DataSet.cpp

Export determination: 6.

Rationale: CHG: not needed here anymore, moved Parameters marshall functions to Parameters directly

**Change #100** with diff file ISSM-20647-20648.diff:

Function name:

A /issm/trunk-jpl/scripts/installExternalPackages.sh

Export determination: 6.

Rationale: ADD: Installation script for externalpackages.

**Change #101** with diff file ISSM-20648-20649.diff:

Function name:

M /issm/trunk-jpl/scripts/installExternalPackages.sh

Export determination: 6.

Rationale: CHG: Sourcing externalpackages file.

**Change #102** with diff file ISSM-20649-20650.diff:

Function name:

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

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

M /issm/trunk-jpl/src/c/modules/ModelProcessorx/CreateElementsVerticesAndMaterials.cpp

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp M /issm/trunk-jpl/src/c/shared/FSanlyticals/fs

Export determination: 6.

Rationale: NEW: added new rheology (Bafl, to be renamed) for HO and SSA

**Change #103** with diff file ISSM-20650-20651.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Materials/Matbafl.cpp

Export determination: 6.

Rationale: BUG: missing powers and wrong sign in eps\_prime

**Change #104** with diff file ISSM-20651-20652.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Materials/Matbafl.cpp  
Export determination: 6.  
Rationale: oops

**Change #105** with diff file ISSM-20652-20653.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/applyoptions.js  
Export determination: 6.  
Rationale: CHG (javascript): Code revision for implementing dynamically re-sizing colorbars.

**Change #106** with diff file ISSM-20653-20654.diff:  
Function name:  
M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/classes/IoModel.cpp  
M /issm/trunk-jpl/src/c/classes/IoModel.h M /issm/trunk-jpl/src/c/main/kriging.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Autodiff/CreateParametersAutodiff.cpp  
Export determination: 6.  
Rationale: CHG: testing new IoModel using jekins (no AD capability on my local machine)

**Change #107** with diff file ISSM-20654-20655.diff:  
Function name:  
D /issm/trunk-jpl/src/c/classes/IndependentObject.cpp D /issm/trunk-jpl/src/c/classes/IndependentObject.h  
M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/classes/classes.h  
M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt  
M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp  
Export determination: 6.  
Rationale: CHG: cleaned up

**Change #108** with diff file ISSM-20655-20656.diff:  
Function name:  
M /issm/trunk-jpl/src/c/analyses/MasstransportAnalysis.cpp  
Export determination: 6.  
Rationale: BUG: fetch smb by default in case no smb is computed internally

**Change #109** with diff file ISSM-20656-20657.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp  
Export determination: 6.  
Rationale: NEW: added effective deviatoric stress calculation

**Change #110** with diff file ISSM-20657-20658.diff:  
Function name:  
M /issm/trunk-jpl/src/m/solvers/mumpsoptions.m  
Export determination: 6.  
Rationale: CHG: riajin cluster is breaking because of these 2 options

**Change #111** with diff file ISSM-20658-20659.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Loads/Penpair.cpp  
Export determination: 6.  
Rationale: CHG: much more general PenaltyCreateKMatrix

**Change #112** with diff file ISSM-20659-20660.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp  
Export determination: 6.  
Rationale: NEW: extended stress calculation to FS and HO in tria

**Change #113** with diff file ISSM-20660-20661.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Loads/Penpair.cpp  
Export determination: 6.  
Rationale: CHG: more flexible PenaltyCreateKMatrixStressbalanceFS

**Change #114** with diff file ISSM-20661-20662.diff:  
Function name:  
M /issm/trunk-jpl/src/c/analyses/DamageEvolutionAnalysis.cpp

Export determination: 6.  
Rationale: CHG: DamageEvolution needs to push Approximation to element so that viscosity is properly calculated

**Change #115** with diff file ISSM-20662-20663.diff:

Function name:  
M /issm/trunk-jpl/test/NightlyRun/test335.m  
Export determination: 6.  
Rationale: CHG: relaxed tolerances

**Change #116** with diff file ISSM-20663-20664.diff:

Function name:  
M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp  
D /issm/trunk-jpl/src/c/classes/Materials/Matbafl.cpp D /issm/trunk-jpl/src/c/classes/Materials/Matbafl.h  
A /issm/trunk-jpl/src/c/classes/Materials/Matearl.cpp (from /issm/trunk-jpl/src/c/classes/Materials/Matbafl.h  
A /issm/trunk-jpl/src/c/classes/Materials/Matearl.h (from /issm/trunk-jpl/src/c/classes/Materials/Matbafl.h  
M /issm/trunk-jpl/src/c/classes/Materials/Matpar.cpp M /issm/trunk-jpl/src/c/classes/classes.h  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/CreateElementsVerticesAndMaterials.cpp  
M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt  
M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp M /issm/trunk-jpl/src/c/shared/FSanlyticals/fs  
D /issm/trunk-jpl/src/m/classes/matbafl.m A /issm/trunk-jpl/src/m/classes/matearl.m  
(from /issm/trunk-jpl/src/m/classes/matbafl.m:20656) M /issm/trunk-jpl/src/m/enum/EnumDefinitions.js  
M /issm/trunk-jpl/src/m/enum/EnumDefinitions.py D /issm/trunk-jpl/src/m/enum/IndependentObjectEnum  
D /issm/trunk-jpl/src/m/enum/MatbaflEnum.m A /issm/trunk-jpl/src/m/enum/MatearlEnum.m  
A /issm/trunk-jpl/src/m/enum/MaterialsRheologyEcbarEnum.m A /issm/trunk-  
jpl/src/m/enum/MaterialsRheologyEsbarEnum.m A /issm/trunk-jpl/src/m/enum/MaterialsRheologyKobarE  
M /issm/trunk-jpl/src/m/exp/exptool.m  
Export determination: 6.  
Rationale: CHG: renaming Bafl flow law -i Earl (empirical Anasotropic Rheol-  
ogy Law)

**Change #117** with diff file ISSM-20664-20665.diff:

Function name:  
A /issm/trunk-jpl/test/Archives/Archive460.nc A /issm/trunk-jpl/test/NightlyRun/test460.m  
Export determination: 6.  
Rationale: NEW: added test460

**Change #118** with diff file ISSM-20665-20666.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/ExtrudeFromBaseAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/ExtrudeFromBaseAnalysis.h M /issm/trunk-jpl/src/c/classes/Materials/Matrice.cpp M /issm/trunk-jpl/src/c/classes/Vertex.cpp

Export determination: 6.

Rationale: CHG: using diffusion equation to extrude rather than advection

**Change #119** with diff file ISSM-20666-20667.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/ExtrudeFromTopAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/ExtrudeFromTopAnalysis.h

Export determination: 6.

Rationale: CHG: use diffusion equation to extrude from top

**Change #120** with diff file ISSM-20667-20668.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive703.nc

Export determination: 6.

Rationale: CHG: new archive now that extrude relies on diffusion instead of vertical advection

**Change #121** with diff file ISSM-20668-20669.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/FSanalytics/fsanalytics.cpp

Export determination: 6.

Rationale: NEW: more tests for Earl

**Change #122** with diff file ISSM-20669-20670.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/AdjointHorizAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/DamageEvolutionAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologyDCEfficiencyAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologyDCInefficientAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologyShreveAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologySommersAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/MasstransportAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/StressbalanceAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/StressbalanceSIAAnalysis.cpp  
M /issm/trunk-jpl/src/c/analyses/StressbalanceVerticalAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/ThermalAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp  
M /issm/trunk-jpl/src/c/classes/Elements/Tetra.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp  
M /issm/trunk-jpl/src/c/classes/matrix/ElementMatrix.cpp M /issm/trunk-jpl/src/c/classes/matrix/Element  
M /issm/trunk-jpl/src/c/shared/Numerics/isnan.cpp M /issm/trunk-jpl/src/c/shared/Numerics/isnan.h  
Export determination: 6.  
Rationale: NEW: added check for isinf in solution vector

**Change #123** with diff file ISSM-20670-20671.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: forced different posting for x and y

**Change #124** with diff file ISSM-20671-20672.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/mesh2dvertical.m

Export determination: 6.

Rationale: CHG: process units

**Change #125** with diff file ISSM-20672-20673.diff:

Function name:

M /issm/trunk-jpl/externalpackages/vim/addons/vim/colors/issm\_white.vim

Export determination: 6.

Rationale: CHG: slightly better color scheme

**Change #126** with diff file ISSM-20673-20674.diff:

Function name:

M /issm/trunk-jpl/externalpackages/vim/addons/vim/colors/issm\_white.vim

Export determination: 6.

Rationale: CHG: yellow bg for insert



**Change #127** with diff file ISSM-20674-20675.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: adding test on mac specific code to avoid Spyder fail

**Change #128** with diff file ISSM-20675-20676.diff:

Function name:

A /issm/trunk-jpl/src/m/materials/buddjacka.m

Export determination: 6.

Rationale: NEW: Budd and Jacka (1989) A values

**Change #129** with diff file ISSM-20676-20677.diff:

Function name:

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

M /issm/trunk-jpl/src/c/shared/Elements/elements.h M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinition

M /issm/trunk-jpl/src/c/shared/Enum/EnumToStringx.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringTo

M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence\_linear.cpp

Export determination: 6.

Rationale: NEW: Budd and Jacka (1989) A values

**Change #130** with diff file ISSM-20677-20678.diff:

Function name:

A /issm/trunk-jpl/src/m/enum/BuddJackaEnum.m M /issm/trunk-jpl/src/m/enum/EnumDefinitions.js

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

Export determination: 6.

Rationale: CHG: synch enums

**Change #131** with diff file ISSM-20678-20679.diff:

Function name:

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

M /issm/trunk-jpl/src/c/classes/Elements/Element.h M /issm/trunk-jpl/src/c/classes/Materials/Matearl.cpp

A /issm/trunk-jpl/src/c/shared/Elements/EarlComponents.cpp M /issm/trunk-

jpl/src/c/shared/Elements/elements.h M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h

M /issm/trunk-jpl/src/c/shared/Enum/EnumToStringx.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringTo

M /issm/trunk-jpl/src/m/enum/EnumDefinitions.js M /issm/trunk-jpl/src/m/enum/EnumDefinitions.py  
A /issm/trunk-jpl/src/m/enum/LambdaSEnum.m  
Export determination: 6.  
Rationale: NEW: added Earl shear fraction LambdaS as output

**Change #132** with diff file ISSM-20679-20680.diff:  
Function name:  
M /issm/trunk-jpl/src/m/dev/devpath.py  
Export determination: 6.  
Rationale: CHG: do not warn user if JPL\_SVN is not declared

**Change #133** with diff file ISSM-20680-20681.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/organizer.m  
Export determination: 6.  
Rationale: CHG: make color an option of organizer (default is red)

**Change #134** with diff file ISSM-20681-20682.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/organizer.m  
Export determination: 6.  
Rationale: BUG: oops, forgot to add color as a field

**Change #135** with diff file ISSM-20682-20683.diff:  
Function name:  
M /issm/trunk-jpl/configure.ac  
Export determination: 6.  
Rationale: NEW: adde banner

**Change #136** with diff file ISSM-20683-20684.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp M /issm/trunk-jpl/src/c/classes/Materials/Matearl.c  
M /issm/trunk-jpl/src/c/shared/Elements/EarlComponents.cpp M /issm/trunk-

jpl/src/c/shared/Elements/elements.h

Export determination: 6.

Rationale: CHG: added rigid body correction to vorticity in Budd et al. (2013) rheology

**Change #137** with diff file ISSM-20684-20685.diff:

Function name:

M /issm/trunk-jpl/src/m/materials/buddjacka.m

Export determination: 6.

Rationale: CHG: added size to rigidity

**Change #138** with diff file ISSM-20685-20686.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive460.nc

Export determination: 6.

Rationale: CHG: modified Budd et al. (2013) vorticity to correct for rigid body rotation

**Change #139** with diff file ISSM-20686-20687.diff:

Function name:

A /issm/trunk-jpl/src/m/classes/clusters/raijin.m

Export determination: 6.

Rationale: NEW: cluster file for raijin (NCI, Australia)

**Change #140** with diff file ISSM-20687-20688.diff:

Function name:

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

M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp D /issm/trunk-jpl/src/c/classes/Materials/Matearl.cpp

D /issm/trunk-jpl/src/c/classes/Materials/Matearl.h A /issm/trunk-jpl/src/c/classes/Materials/Matestar.cpp

A /issm/trunk-jpl/src/c/classes/Materials/Matestar.h M /issm/trunk-jpl/src/c/classes/Materials/Matpar.cpp

M /issm/trunk-jpl/src/c/classes/classes.h M /issm/trunk-jpl/src/c/modules/ModelProcessorx/CreateElement

D /issm/trunk-jpl/src/c/shared/Elements/EarlComponents.cpp A /issm/trunk-

jpl/src/c/shared/Elements/EstarComponents.cpp M /issm/trunk-jpl/src/c/shared/Elements/elements.h

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp

Export determination: 6.

Rationale: CHG: renamed rheology Earl to Estar (Budd et al., 2013)

**Change #141** with diff file ISSM-20688-20689.diff:

Function name:

D /issm/trunk-jpl/src/m/classes/matearl.m A /issm/trunk-jpl/src/m/classes/matestar.m

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

D /issm/trunk-jpl/src/m/enum/MatearlEnum.m A /issm/trunk-jpl/src/m/enum/MatestarEnum.m

Export determination: 6.

Rationale: CHG: renamed rheology Earl to Estar (Budd et al., 2013)

**Change #142** with diff file ISSM-20689-20690.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: modifying default name

**Change #143** with diff file ISSM-20690-20691.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/Balancethickness2Analysis.cpp M /issm/trunk-

jpl/src/c/analyses/BalancethicknessAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/BalancevelocityAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/DamageEvolutionAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/DepthAverageAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/ExtrapolationAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/ExtrudeFromBaseAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/ExtrudeFromTopAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/FreeSurfaceBaseAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/FreeSurfaceTopAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/GiaAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/HydrologyDCEfficientAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/HydrologyDCInefficientAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologyShreveAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/HydrologySommersAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/L2ProjectionBaseAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/L2ProjectionEPLAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/LevelsetAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/LsfReinitializationAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/MasstransportAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/MeltingAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/SealevelriseAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/SmbAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/StressbalanceAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/StressbalanceSIAAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/StressbalanceVerticalAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/ThermalAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/UzawaPressureAnalysis.cpp M /issm/trunk-

jpl/src/c/classes/Elements/Penta.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tetra.cpp  
 M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/FemModel.cpp  
 M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/classes/IoModel.h  
 M /issm/trunk-jpl/src/c/classes/Loads/Riftfront.cpp M /issm/trunk-jpl/src/c/classes/Materials/Matrice.cpp  
 M /issm/trunk-jpl/src/c/classes/Materials/Matpar.cpp M /issm/trunk-jpl/src/c/classes/Node.cpp  
 M /issm/trunk-jpl/src/c/classes/Params/BoolParam.h M /issm/trunk-jpl/src/c/classes/Params/DataSetPara  
 M /issm/trunk-jpl/src/c/classes/Params/DoubleMatArrayParam.h M /issm/trunk-  
 jpl/src/c/classes/Params/DoubleMatParam.h M /issm/trunk-jpl/src/c/classes/Params/DoubleParam.h  
 M /issm/trunk-jpl/src/c/classes/Params/DoubleVecParam.h M /issm/trunk-  
 jpl/src/c/classes/Params/FileParam.h M /issm/trunk-jpl/src/c/classes/Params/GenericParam.h  
 M /issm/trunk-jpl/src/c/classes/Params/IntMatParam.h M /issm/trunk-jpl/src/c/classes/Params/IntParam.h  
 M /issm/trunk-jpl/src/c/classes/Params/IntVecParam.h M /issm/trunk-jpl/src/c/classes/Params/MatrixPara  
 M /issm/trunk-jpl/src/c/classes/Params/Param.h M /issm/trunk-jpl/src/c/classes/Params/StringArrayParam  
 M /issm/trunk-jpl/src/c/classes/Params/StringArrayParam.h M /issm/trunk-  
 jpl/src/c/classes/Params/StringParam.h M /issm/trunk-jpl/src/c/classes/Params/TransientParam.h  
 M /issm/trunk-jpl/src/c/classes/Params/VectorParam.h M /issm/trunk-jpl/src/c/classes/Vertex.cpp  
 M /issm/trunk-jpl/src/c/main/kriging.cpp M /issm/trunk-jpl/src/c/modules/IoModelToConstraintsx/IoModel  
 M /issm/trunk-jpl/src/c/modules/IoModelToConstraintsx/IoModelToConstraintsx.h  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/Autodiff/CreateParametersAutodiff.cpp  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/Control/CreateParametersControl.cpp  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/Control/UpdateElementsAndMaterialsControl.cpp  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/CreateElementsVerticesAndMaterials.cpp  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/CreateOutputDefinitions.cpp  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/CreateParameters.cpp M  
 /issm/trunk-jpl/src/c/modules/ModelProcessox/Dakota/CreateParametersDakota.cpp  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/Dakota/UpdateElementsAndMaterialsDakota.cpp  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/ElementsAndVerticesPartitioning.cpp  
 M /issm/trunk-jpl/src/c/modules/ModelProcessox/ModelProcessox.cpp M /issm/trunk-  
 jpl/src/c/modules/ModelProcessox/Transient/UpdateElementsTransient.cpp M  
 /issm/trunk-jpl/src/c/modules/SurfaceMassBalance/SurfaceMassBalance.cpp  
 M /issm/trunk-jpl/src/m/classes/SMBcomponents.m M /issm/trunk-jpl/src/m/classes/SMBcomponents.py  
 M /issm/trunk-jpl/src/m/classes/SMBd18opdd.m M /issm/trunk-jpl/src/m/classes/SMBd18opdd.py  
 M /issm/trunk-jpl/src/m/classes/SMBforcing.js M /issm/trunk-jpl/src/m/classes/SMBforcing.m  
 M /issm/trunk-jpl/src/m/classes/SMBforcing.py M /issm/trunk-jpl/src/m/classes/SMBgemb.m  
 M /issm/trunk-jpl/src/m/classes/SMBgradients.m M /issm/trunk-jpl/src/m/classes/SMBgradients.py  
 M /issm/trunk-jpl/src/m/classes/SMBhenning.m M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.m  
 M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.py M /issm/trunk-jpl/src/m/classes/SMBpdd.m  
 M /issm/trunk-jpl/src/m/classes/SMBpdd.py M /issm/trunk-jpl/src/m/classes/adinversion.m  
 M /issm/trunk-jpl/src/m/classes/autodiff.py M /issm/trunk-jpl/src/m/classes/autodiff.js  
 M /issm/trunk-jpl/src/m/classes/autodiff.m M /issm/trunk-jpl/src/m/classes/autodiff.py  
 M /issm/trunk-jpl/src/m/classes/balancethickness.js M /issm/trunk-jpl/src/m/classes/balancethickness.m  
 M /issm/trunk-jpl/src/m/classes/balancethickness.py M /issm/trunk-jpl/src/m/classes/basalforcings.js  
 M /issm/trunk-jpl/src/m/classes/basalforcings.m M /issm/trunk-jpl/src/m/classes/basalforcings.py  
 M /issm/trunk-jpl/src/m/classes/calving.js M /issm/trunk-jpl/src/m/classes/calving.m  
 M /issm/trunk-jpl/src/m/classes/calving.py M /issm/trunk-jpl/src/m/classes/calvingdev.m  
 M /issm/trunk-jpl/src/m/classes/calvinglevermann.m M /issm/trunk-jpl/src/m/classes/calvinglevermann.py

M /issm/trunk-jpl/src/m/classes/constants.js M /issm/trunk-jpl/src/m/classes/constants.m  
M /issm/trunk-jpl/src/m/classes/constants.py M /issm/trunk-jpl/src/m/classes/damage.js  
M /issm/trunk-jpl/src/m/classes/damage.m M /issm/trunk-jpl/src/m/classes/damage.py  
M /issm/trunk-jpl/src/m/classes/debug.js M /issm/trunk-jpl/src/m/classes/debug.m  
M /issm/trunk-jpl/src/m/classes/debug.py M /issm/trunk-jpl/src/m/classes/flowequation.js  
M /issm/trunk-jpl/src/m/classes/flowequation.m M /issm/trunk-jpl/src/m/classes/flowequation.py  
M /issm/trunk-jpl/src/m/classes/friction.js M /issm/trunk-jpl/src/m/classes/friction.m  
M /issm/trunk-jpl/src/m/classes/friction.py M /issm/trunk-jpl/src/m/classes/frictioncoulomb.m  
M /issm/trunk-jpl/src/m/classes/frictioncoulomb.py M /issm/trunk-jpl/src/m/classes/frictionhydro.m  
M /issm/trunk-jpl/src/m/classes/frictionsommers.m M /issm/trunk-jpl/src/m/classes/frictiontemp.m  
M /issm/trunk-jpl/src/m/classes/frictionwaterlayer.m M /issm/trunk-jpl/src/m/classes/frictionweertman.m  
M /issm/trunk-jpl/src/m/classes/frictionweertman.py M /issm/trunk-jpl/src/m/classes/frictionweertmantemp  
M /issm/trunk-jpl/src/m/classes/geometry.js M /issm/trunk-jpl/src/m/classes/geometry.m  
M /issm/trunk-jpl/src/m/classes/geometry.py M /issm/trunk-jpl/src/m/classes/gia.js  
M /issm/trunk-jpl/src/m/classes/gia.m M /issm/trunk-jpl/src/m/classes/gia.py  
M /issm/trunk-jpl/src/m/classes/groundingline.js M /issm/trunk-jpl/src/m/classes/groundingline.m  
M /issm/trunk-jpl/src/m/classes/groundingline.py M /issm/trunk-jpl/src/m/classes/hydrologydc.m  
M /issm/trunk-jpl/src/m/classes/hydrologydc.py M /issm/trunk-jpl/src/m/classes/hydrologyshreve.js  
M /issm/trunk-jpl/src/m/classes/hydrologyshreve.m M /issm/trunk-jpl/src/m/classes/hydrologyshreve.py  
M /issm/trunk-jpl/src/m/classes/hydrologysommers.m M /issm/trunk-jpl/src/m/classes/initialization.js  
M /issm/trunk-jpl/src/m/classes/initialization.m M /issm/trunk-jpl/src/m/classes/initialization.py  
M /issm/trunk-jpl/src/m/classes/inversion.js 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/inversionvalidation.m  
M /issm/trunk-jpl/src/m/classes/levelset.js M /issm/trunk-jpl/src/m/classes/levelset.m  
M /issm/trunk-jpl/src/m/classes/levelset.py M /issm/trunk-jpl/src/m/classes/linearbasalforcings.m  
M /issm/trunk-jpl/src/m/classes/linearbasalforcings.py M /issm/trunk-jpl/src/m/classes/m1qn3inversion.m  
M /issm/trunk-jpl/src/m/classes/m1qn3inversion.py M /issm/trunk-jpl/src/m/classes/mask.js  
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/maskpsl.js M /issm/trunk-jpl/src/m/classes/maskpsl.m  
M /issm/trunk-jpl/src/m/classes/maskpsl.py M /issm/trunk-jpl/src/m/classes/masscon.m  
M /issm/trunk-jpl/src/m/classes/massconaxpby.m M /issm/trunk-jpl/src/m/classes/massfluxatgate.m  
M /issm/trunk-jpl/src/m/classes/massfluxatgate.py M /issm/trunk-jpl/src/m/classes/masstransport.js  
M /issm/trunk-jpl/src/m/classes/masstransport.m M /issm/trunk-jpl/src/m/classes/masstransport.py  
M /issm/trunk-jpl/src/m/classes/matdamageice.m M /issm/trunk-jpl/src/m/classes/matdamageice.py  
M /issm/trunk-jpl/src/m/classes/matestar.m M /issm/trunk-jpl/src/m/classes/matrice.js  
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/mesh2d.js M /issm/trunk-jpl/src/m/classes/mesh2d.m  
M /issm/trunk-jpl/src/m/classes/mesh2d.py M /issm/trunk-jpl/src/m/classes/mesh2dvertical.m  
M /issm/trunk-jpl/src/m/classes/mesh3dprisms.m M /issm/trunk-jpl/src/m/classes/mesh3dprisms.py  
M /issm/trunk-jpl/src/m/classes/mesh3dsurface.js M /issm/trunk-jpl/src/m/classes/mesh3dsurface.m  
M /issm/trunk-jpl/src/m/classes/mesh3dsurface.py M /issm/trunk-jpl/src/m/classes/mesh3dtetras.m  
M /issm/trunk-jpl/src/m/classes/miscellaneous.js M /issm/trunk-jpl/src/m/classes/miscellaneous.m  
M /issm/trunk-jpl/src/m/classes/miscellaneous.py M /issm/trunk-jpl/src/m/classes/misfit.m  
M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.m M /issm/trunk-jpl/src/m/classes/mismipbasalforcing  
M /issm/trunk-jpl/src/m/classes/nodalvalue.m M /issm/trunk-jpl/src/m/classes/outputdefinition.js  
M /issm/trunk-jpl/src/m/classes/outputdefinition.m M /issm/trunk-jpl/src/m/classes/outputdefinition.py

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/plumebasalforcings.m M /issm/trunk-jpl/src/m/classes/qmu.js  
M /issm/trunk-jpl/src/m/classes/qmu.m M /issm/trunk-jpl/src/m/classes/qmu.py  
M /issm/trunk-jpl/src/m/classes/results.py M /issm/trunk-jpl/src/m/classes/rifts.js  
M /issm/trunk-jpl/src/m/classes/rifts.m M /issm/trunk-jpl/src/m/classes/rifts.py  
M /issm/trunk-jpl/src/m/classes/settings.js M /issm/trunk-jpl/src/m/classes/settings.m  
M /issm/trunk-jpl/src/m/classes/settings.py M /issm/trunk-jpl/src/m/classes/slr.js  
M /issm/trunk-jpl/src/m/classes/slr.m M /issm/trunk-jpl/src/m/classes/slr.py  
M /issm/trunk-jpl/src/m/classes/snowpack.m M /issm/trunk-jpl/src/m/classes/spheremesh.m  
M /issm/trunk-jpl/src/m/classes/steadystate.js M /issm/trunk-jpl/src/m/classes/steadystate.m  
M /issm/trunk-jpl/src/m/classes/steadystate.py M /issm/trunk-jpl/src/m/classes/stressbalance.js  
M /issm/trunk-jpl/src/m/classes/stressbalance.m M /issm/trunk-jpl/src/m/classes/stressbalance.py  
M /issm/trunk-jpl/src/m/classes/taoinversion.m M /issm/trunk-jpl/src/m/classes/taoinversion.py  
M /issm/trunk-jpl/src/m/classes/thermal.js M /issm/trunk-jpl/src/m/classes/thermal.m  
M /issm/trunk-jpl/src/m/classes/thermal.py M /issm/trunk-jpl/src/m/classes/timestepping.js  
M /issm/trunk-jpl/src/m/classes/timestepping.m M /issm/trunk-jpl/src/m/classes/timestepping.py  
M /issm/trunk-jpl/src/m/classes/trans.js M /issm/trunk-jpl/src/m/classes/transient.m  
M /issm/trunk-jpl/src/m/classes/transient.py M /issm/trunk-jpl/src/m/classes/verbose.js  
M /issm/trunk-jpl/src/m/classes/verbose.m M /issm/trunk-jpl/src/m/classes/verbose.py  
M /issm/trunk-jpl/src/m/solve/WriteData.js M /issm/trunk-jpl/src/m/solve/WriteData.m  
M /issm/trunk-jpl/src/m/solve/WriteData.py M /issm/trunk-jpl/src/m/solve/marshall.js  
M /issm/trunk-jpl/src/m/solve/marshall.m M /issm/trunk-jpl/src/m/solve/marshall.py  
Export determination: 6.  
Rationale: NEW: marhsall strings instead of enums

**Change #144** with diff file ISSM-20691-20692.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test243.m M /issm/trunk-jpl/test/NightlyRun/test460.m

Export determination: 6.

Rationale: BUG: changed material name and tolerances should not be strings

**Change #145** with diff file ISSM-20692-20693.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Dakota/CreateParametersDakota.cpp

Export determination: 6.

Rationale: CHG: trying to fix dakota

**Change #146** with diff file ISSM-20693-20694.diff:

Function name:  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Dakota/CreateParametersDakota.cpp  
Export determination: 6.  
Rationale: BUG: fixing dakota compile

**Change #147** with diff file ISSM-20694-20695.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test243.m  
Export determination: 6.  
Rationale: CHG: minor

**Change #148** with diff file ISSM-20695-20696.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/windows  
Export determination: 6.  
Rationale: CHG: exclude test 460 that includes FS

**Change #149** with diff file ISSM-20696-20697.diff:  
Function name:  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Dakota/CreateParametersDakota.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Dakota/UpdateElementsAndMaterialsDakota.cpp  
M /issm/trunk-jpl/src/m/classes/autodiff.m  
Export determination: 6.  
Rationale: BUG: some errors for AD and dakota using the new marshall system

**Change #150** with diff file ISSM-20697-20698.diff:  
Function name:  
M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Dakota/CreateParametersDakota.cpp  
Export determination: 6.  
Rationale: CHG: printf should not be in svn:

**Change #151** with diff file ISSM-20698-20699.diff:  
Function name:



M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Autodiff/CreateParametersAutodiff.cpp  
Export determination: 6.  
Rationale: BUG: fixed typo for autodiff

**Change #152** with diff file ISSM-20699-20700.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/organizer.m  
Export determination: 6.  
Rationale: CHG: default lighter white with item3

**Change #153** with diff file ISSM-20700-20701.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/geometry.m  
Export determination: 6.  
Rationale: BUG: thickness can be a timeseries in GIA

**Change #154** with diff file ISSM-20701-20702.diff:  
Function name:  
M /issm/trunk-jpl/test/Archives/Archive2001.nc  
Export determination: 6.  
Rationale: CHG: updated to comply with par file changes in commit #16063

**Change #155** with diff file ISSM-20702-20703.diff:  
Function name:  
M /issm/trunk-jpl/examples/Jakobshavn/runme.m  
Export determination: 6.  
Rationale: CHG: do not weaken margins twice, and do not use mdl extensions for saved models

**Change #156** with diff file ISSM-20703-20704.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/mesh3dsurface.js M /issm/trunk-jpl/src/m/classes/mesh3dsurface.m  
Export determination: 6.

Rationale: BUG: need to provide prefix to marshall now

**Change #157** with diff file ISSM-20704-20705.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SealevelriseAnalysis.cpp

Export determination: 6.

Rationale: BUG: typo for md.slr

**Change #158** with diff file ISSM-20705-20706.diff:

Function name:

M /issm/trunk-jpl/externalpackages/petsc/install-3.7-greenplanet.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-hpc.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-linux64.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-macosx64.sh

Export determination: 6.

Rationale: CHG: switched to 3.7.2

**Change #159** with diff file ISSM-20706-20707.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/mesh3dsurface.m

Export determination: 6.

Rationale: BUG: prefix should be in marshall, not checkconsistency

**Change #160** with diff file ISSM-20707-20708.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive2002.nc

Export determination: 6.

Rationale: CHG: save archived on linux

**Change #161** with diff file ISSM-20708-20709.diff:

Function name:

M /issm/trunk-jpl/examples/Inversion/runme.m

Export determination: 6.

Rationale: CHG: revised tutorial

**Change #162** with diff file ISSM-20709-20710.diff:  
Function name:  
M /issm/trunk-jpl/src/m/materials/arrhenius.m  
Export determination: 6.  
Rationale: BUG: arguments of TMeLting have changed

**Change #163** with diff file ISSM-20710-20711.diff:  
Function name:  
M /issm/trunk-jpl/src/m/materials/arrhenius.m  
Export determination: 6.  
Rationale: BUG: forgot to change one other TMeLting

**Change #164** with diff file ISSM-20711-20712.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/linux64\_ross\_se  
Export determination: 6.  
Rationale: CHG: try cmake now

**Change #165** with diff file ISSM-20712-20713.diff:  
Function name:  
M /issm/trunk-jpl/examples/Inversion/CheatSheet.m  
Export determination: 6.  
Rationale: CHG: minor adjustments

**Change #166** with diff file ISSM-20713-20714.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test243.m  
Export determination: 6.  
Rationale: CHG: relaxing tolerances

**Change #167** with diff file ISSM-20714-20715.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_se

Export determination: 6.

Rationale: CHG: gmt needs hdf5 and netcdf

**Change #168** with diff file ISSM-20715-20716.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_se

Export determination: 6.

Rationale: CHG: use jenkins install script

**Change #169** with diff file ISSM-20717-20718.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: minor

**Change #170** with diff file ISSM-20718-20719.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/LevelsetAnalysis.cpp M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h

M /issm/trunk-jpl/src/c/shared/Enum/EnumToString.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringToEnum.cpp

A /issm/trunk-jpl/src/m/classes/calvingminthickness.m A /issm/trunk-jpl/src/m/enum/CalvingMinthickness.h

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

Export determination: 6.

Rationale: NEW: working on calving law with minimum thickness

**Change #171** with diff file ISSM-20719-20720.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/LevelsetAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp

M /issm/trunk-jpl/src/c/classes/Elements/Element.h M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp

M /issm/trunk-jpl/src/c/classes/Elements/Tria.h M /issm/trunk-jpl/src/c/classes/FemModel.cpp

M /issm/trunk-jpl/src/c/classes/FemModel.h M /issm/trunk-jpl/src/c/modules/Calvingx/Calvingx.cpp

Export determination: 6.

Rationale: NEW: finished implementation of calving criterion based on mini-

mum thickness

**Change #172** with diff file ISSM-20720-20721.diff:

Function name:

M /issm/trunk-jpl/externalpackages/vim/addons/vim/syntax/c.vim

Export determination: 6.

Rationale: CHG: syncing enums

**Change #173** with diff file ISSM-20721-20722.diff:

Function name:

M /issm/trunk-jpl/scripts/ol

Export determination: 6.

Rationale: CHG: making ol more robust

**Change #174** with diff file ISSM-20722-20723.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test243.m

Export determination: 6.

Rationale: CHG: relaxed tolerances

**Change #175** with diff file ISSM-20723-20724.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/LevelsetAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Element.c

M /issm/trunk-jpl/src/c/classes/Elements/Element.h M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp

M /issm/trunk-jpl/src/c/classes/Elements/Tria.h M /issm/trunk-jpl/src/c/classes/FemModel.cpp

M /issm/trunk-jpl/src/c/classes/FemModel.h M /issm/trunk-jpl/src/c/modules/Calvingx/Calvingx.cpp

Export determination: 6.

Rationale: CHG: spc based min thickness calving

**Change #176** with diff file ISSM-20724-20725.diff:

Function name:

M /issm/trunk-jpl/src/c

Export determination: 6.

Rationale: CHG: ignore issm\_slr

**Change #177** with diff file ISSM-20725-20726.diff:

Function name:

A /issm/trunk-jpl/examples/MeltingSensitivity A /issm/trunk-jpl/examples/MeltingSensitivity/CheatSheet.m  
A /issm/trunk-jpl/examples/MeltingSensitivity/DomainOutline.bkp A /issm/trunk-jpl/examples/MeltingSensitivity/DomainOutline.exp A /issm/trunk-jpl/examples/MeltingSensitivity/Models  
A /issm/trunk-jpl/examples/MeltingSensitivity/Pig.par A /issm/trunk-jpl/examples/MeltingSensitivity/PigR  
A /issm/trunk-jpl/examples/MeltingSensitivity/runme.m

Export determination: 6.

Rationale: NEW: workshop Directory for Pig melting sensitivity

**Change #178** with diff file ISSM-20726-20727.diff:

Function name:

M /issm/trunk-jpl/src/m/Makefile.am M /issm/trunk-jpl/src/m/classes/clusters/generic.js  
A /issm/trunk-jpl/src/m/io/download.js M /issm/trunk-jpl/src/m/plot/gauge.js  
M /issm/trunk-jpl/src/m/plot/slider.js M /issm/trunk-jpl/src/m/plot/tooltips.js

Export determination: 6.

Rationale: ADD (javascript): Adding io/download.js for saving arbitrarily model/variable data. CHG (javascript): Added to Makefile. Minor code cleanup. Starting documentation for js specific code.

**Change #179** with diff file ISSM-20727-20728.diff:

Function name:

M /issm/trunk-jpl/src/m/io/download.js

Export determination: 6.

Rationale: CHG (javascript): Simplifying usage of download.js.

**Change #180** with diff file ISSM-20728-20729.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Matrix/MatrixUtils.cpp

Export determination: 6.

Rationale: CHG TripleMultiply now uses static allocation in most cases, and MatrixInvert functions now multiply by the reciprocal of a determinant instead of dividing by the determinant.

**Change #181** with diff file ISSM-20729-20730.diff:  
Function name:  
M /issm/trunk-jpl/src/c/shared/Matrix/MatrixUtils.cpp  
Export determination: 6.  
Rationale: CHG: cosmetics

**Change #182** with diff file ISSM-20730-20731.diff:  
Function name:  
M /issm/trunk-jpl/examples/Pig/PigRegion.m  
Export determination: 6.  
Rationale: CHG: cleaned pigregion

**Change #183** with diff file ISSM-20731-20732.diff:  
Function name:  
M /issm/trunk-jpl/src/c/shared/Matrix/MatrixUtils.cpp  
Export determination: 6.  
Rationale: BUG: oops, deleting wrong pointer

**Change #184** with diff file ISSM-20732-20733.diff:  
Function name:  
M /issm/trunk-jpl/src/c/shared/Matrix/MatrixUtils.cpp  
Export determination: 6.  
Rationale: BUG: oops, deleting wrong pointer

**Change #185** with diff file ISSM-20733-20734.diff:  
Function name:  
M /issm/trunk-jpl/examples/Pig/CheatSheet.m M /issm/trunk-jpl/examples/Pig/Pig.par  
M /issm/trunk-jpl/examples/Pig/runme.m  
Export determination: 6.  
Rationale: CHG: finished update pig test for the workshop

**Change #186** with diff file ISSM-20734-20735.diff:

Function name:

D /issm/trunk-jpl/examples/MeltingSensitivity/PigRegion.m

Export determination: 6.

Rationale: minor

**Change #187** with diff file ISSM-20735-20736.diff:

Function name:

D /issm/trunk-jpl/examples/MeltingSensitivity/DomainOutline.bkp

Export determination: 6.

Rationale: CHG: removed backup file

**Change #188** with diff file ISSM-20736-20737.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: melting rate can be a time series

**Change #189** with diff file ISSM-20737-20738.diff:

Function name:

D /issm/trunk-jpl/examples/MeltingSensitivity/DomainOutline.exp D /issm/trunk-jpl/examples/MeltingSensitivity/Pig.par M /issm/trunk-jpl/examples/MeltingSensitivity/runme.m

Export determination: 6.

Rationale: NEW: starting to design tutorial 07 on melting sensitivities

**Change #190** with diff file ISSM-20738-20739.diff:

Function name:

M /issm/trunk-jpl/externalpackages/gdal/install-1.10-linux64.sh

Export determination: 6.

Rationale: CHG: forces to use ISSM's python

**Change #191** with diff file ISSM-20739-20740.diff:

Function name:



D /issm/trunk-jpl/examples/UncertaintyQuantification/ErrorContour.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux1.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux10.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux11.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux12.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux13.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux14.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux15.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux2.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux3.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux4.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux5.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux6.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux7.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux8.exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes/MassFlux9.exp D /issm/trunk-jpl/examples/UncertaintyQuantification/MassFluxes M /issm/trunk-jpl/examples/UncertaintyQuantification/  
 Export determination: 6.  
 Rationale: CHG: move from workshop directory

**Change #192** with diff file ISSM-20740-20741.diff:

Function name:

A /issm/trunk-jpl/examples/UncertaintyQuantification/ErrorContour.exp (from /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/ErrorContour.exp:20739)  
 D /issm/trunk-jpl/examples/UncertaintyQuantification/Exp A /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes (from /issm/trunk-jpl/examples/UncertaintyQuantification/Exp/MassFluxes:20739)  
 M /issm/trunk-jpl/examples/UncertaintyQuantification/runme.m  
 Export determination: 6.  
 Rationale: CHG: revert back to old directory structure

**Change #193** with diff file ISSM-20741-20742.diff:

Function name:

M /issm/trunk-jpl/examples/Greenland/CheatSheet.m M /issm/trunk-jpl/examples/Greenland/Greenland.pa  
 M /issm/trunk-jpl/examples/Greenland/runme.m  
 Export determination: 6.  
 Rationale: CHG: update for workshop

**Change #194** with diff file ISSM-20742-20743.diff:

Function name:

D /issm/trunk-jpl/examples/Greenland/Jak\_grounded.exp D /issm/trunk-jpl/examples/Greenland/Jak\_outlin

Export determination: 6.

Rationale: CHG: don't need Jak exps

**Change #195** with diff file ISSM-20743-20744.diff:

Function name:

M /issm/trunk-jpl/examples/IceBridge/Greenland.par M /issm/trunk-jpl/examples/IceBridge/Greenland\_chea

A /issm/trunk-jpl/examples/IceBridge/Greenland\_solution.par M /issm/trunk-

jpl/examples/IceBridge/runme.m

Export determination: 6.

Rationale: CHG: update for workshop

**Change #196** with diff file ISSM-20744-20745.diff:

Function name:

D /issm/trunk-jpl/examples/IceBridge/Greenland\_cheatsheet.par

Export determination: 6.

Rationale: CHG: remove cheatsheet

**Change #197** with diff file ISSM-20745-20746.diff:

Function name:

M /issm/trunk-jpl/examples/Greenland/Greenland.par

Export determination: 6.

Rationale: CHG: typo

**Change #198** with diff file ISSM-20746-20747.diff:

Function name:

M /issm/trunk-jpl/examples/IceBridge/Greenland.par M /issm/trunk-jpl/examples/IceBridge/Greenland\_solu

Export determination: 6.

Rationale: CHG: update to be consistent with Greenland par files

**Change #199** with diff file ISSM-20747-20748.diff:

Function name:  
M /issm/trunk-jpl/examples/Pig/runme.m  
Export determination: 6.  
Rationale: CHG: start at step 1

**Change #200** with diff file ISSM-20748-20749.diff:

Function name:  
M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/gauge.js  
M /issm/trunk-jpl/src/m/plot/plot\_manager.js M /issm/trunk-jpl/src/m/plot/plot\_mesh.js  
M /issm/trunk-jpl/src/m/plot/plot\_overlay.js M /issm/trunk-jpl/src/m/plot/plot\_quiver.js  
M /issm/trunk-jpl/src/m/plot/slider.js M /issm/trunk-jpl/src/m/plot/tooltips.js  
Export determination: 6.  
Rationale: CHG (javascript): Adding documentation for javascript plot functions. Adding support for colorbarfontcolor option. Fixes for horizontal colorbar rendering.

**Change #201** with diff file ISSM-20749-20750.diff:

Function name:  
A /issm/trunk-jpl/src/m/plot/plotdoc.js  
Export determination: 6.  
Rationale: ADD (javascript): plotdoc.js, will need to be updated

**Change #202** with diff file ISSM-20750-20751.diff:

Function name:  
M /issm/trunk-jpl/examples/Pig/Pig.par  
Export determination: 6.  
Rationale: changes in Pig

**Change #203** with diff file ISSM-20751-20752.diff:

Function name:  
D /issm/trunk-jpl/examples/Pig/CheatSheet.m A /issm/trunk-jpl/examples/Pig/Help.m  
(from /issm/trunk-jpl/examples/Pig/CheatSheet.m:20749) M /issm/trunk-jpl/examples/Pig/runme.m  
Export determination: 6.  
Rationale: minor

**Change #204** with diff file ISSM-20752-20753.diff:

Function name:

M /issm/trunk-jpl/examples/MeltingSensitivity/runme.m

Export determination: 6.

Rationale: CHG: finishing Pig sensitivity tutorial

**Change #205** with diff file ISSM-20753-20754.diff:

Function name:

D /issm/trunk-jpl/examples/MeltingSensitivity/CheatSheet.m A /issm/trunk-jpl/examples/MeltingSensitivity/FrontRetreat.exp A /issm/trunk-jpl/examples/MeltingSensitivity/Help.m (from /issm/trunk-jpl/examples/MeltingSensitivity/CheatSheet.m:20749) M /issm/trunk-jpl/examples/MeltingSensitivity/runme.m

Export determination: 6.

Rationale: CHG: fixed ice front retreat step

**Change #206** with diff file ISSM-20754-20755.diff:

Function name:

M /issm/trunk-jpl/examples/Pig/Help.m M /issm/trunk-jpl/examples/Pig/Pig.par

M /issm/trunk-jpl/examples/Pig/runme.m

Export determination: 6.

Rationale: CHG: finished Pig runme

**Change #207** with diff file ISSM-20755-20756.diff:

Function name:

M /issm/trunk-jpl/examples/MeltingSensitivity/Help.m M /issm/trunk-jpl/examples/MeltingSensitivity/runme.m

Export determination: 6.

Rationale: CHG: finished melting sensitivity run

**Change #208** with diff file ISSM-20756-20757.diff:

Function name:

M /issm/trunk-jpl/examples/MeltingSensitivity/runme.m

Export determination: 6.

Rationale: CHG: typo

**Change #209** with diff file ISSM-20757-20758.diff:  
Function name:  
M /issm/trunk-jpl/examples/Data/Download.sh  
Export determination: 6.  
Rationale: CHG: new location of Antarctic velocity map

**Change #210** with diff file ISSM-20758-20759.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp  
Export determination: 6.  
Rationale: CHG: minor

**Change #211** with diff file ISSM-20759-20760.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/slider.js  
Export determination: 6.  
Rationale: CHG (javascript): Fixing issue with improper closure causing slider errors.

**Change #212** with diff file ISSM-20760-20761.diff:  
Function name:  
A /issm/trunk-jpl/jenkins/javascript  
Export determination: 6.  
Rationale: ADD: new javascript directory for Jenkins

**Change #213** with diff file ISSM-20761-20762.diff:  
Function name:  
M /issm/trunk-jpl/examples/Pig/DomainOutline.bkp D /issm/trunk-jpl/examples/Pig/DomainOutline.exp  
Export determination: 6.  
Rationale: minor

**Change #214** with diff file ISSM-20762-20763.diff:  
Function name:

A /issm/trunk-jpl/configs/config-win10.sh A /issm/trunk-jpl/externalpackages/metis/install-4.0-win10.sh (from /issm/trunk-jpl/externalpackages/metis/install-4.0-win7.sh:20761)  
D /issm/trunk-jpl/externalpackages/metis/install-4.0-win7.sh M /issm/trunk-jpl/externalpackages/petsc/install-dev-linux64.sh A /issm/trunk-jpl/externalpackages/triangle/install-win10.sh (from /issm/trunk-jpl/externalpackages/triangle/install-win7.sh:20761)  
D /issm/trunk-jpl/externalpackages/triangle/install-win7.sh M /issm/trunk-jpl/externalpackages/windows/config-win64.sh  
Export determination: 6.  
Rationale: MOV: Changed name of Metis and Triangle Windows install script from Win7 to Win10. ADD: Added new config script for Win10 based on Jenkins Windows config.

**Change #215** with diff file ISSM-20763-20764.diff:

Function name:

M /issm/trunk-jpl/examples/UncertaintyQuantification/runme.m

Export determination: 6.

Rationale: CHG: update Pig model name

**Change #216** with diff file ISSM-20764-20765.diff:

Function name:

M /issm/trunk-jpl/examples/Pig/Pig.par M /issm/trunk-jpl/examples/Pig/runme.m

Export determination: 6.

Rationale: CHG: minor pig bed

**Change #217** with diff file ISSM-20765-20766.diff:

Function name:

R /issm/trunk-jpl/examples/MeltingSensitivity/FrontRetreat.exp M /issm/trunk-jpl/examples/MeltingSensitivity/Help.m M /issm/trunk-jpl/examples/MeltingSensitivity/runme.m

Export determination: 6.

Rationale: CHG: small changes in sensitivity tutorial

**Change #218** with diff file ISSM-20766-20767.diff:

Function name:

M /issm/trunk-jpl/src/m/Makefile.am M /issm/trunk-jpl/src/m/io/download.js

M /issm/trunk-jpl/src/m/plot/plotdoc.js

Export determination: 6.

Rationale: CHG (javascirpt): Updating js documentation.

**Change #219** with diff file ISSM-20767-20768.diff:

Function name:

```
A /issm/trunk-jpl/jenkins/javascript/karma A /issm/trunk-jpl/jenkins/javascript/karma/index.html
A /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/karma
A /issm/trunk-jpl/jenkins/javascript/karma/lib A /issm/trunk-jpl/jenkins/javascript/karma/lib/Data
A /issm/trunk-jpl/jenkins/javascript/karma/lib/Data/SquareShelfConstrained.data.js
A /issm/trunk-jpl/jenkins/javascript/karma/lib/Exp A /issm/trunk-jpl/jenkins/javascript/karma/lib/Exp/Sq
A /issm/trunk-jpl/jenkins/javascript/karma/lib/Par A /issm/trunk-jpl/jenkins/javascript/karma/lib/Par/Squ
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/Enu
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/issm-binaries.js A /issm/trunk-
jpl/jenkins/javascript/karma/lib/bin/issm-extlibraries.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/link-libs.sh A /issm/trunk-
jpl/jenkins/javascript/karma/lib/bin/mask.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mesh2d.js
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mesh3dprisms.js A /issm/trunk-
jpl/jenkins/javascript/karma/lib/bin/model.js A /issm/trunk-jpl/jenkins/javascript/karma/node_modules
A /issm/trunk-jpl/jenkins/javascript/karma/package.json A /issm/trunk-jpl/jenkins/javascript/karma/scripts
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/m2js.sh A /issm/trunk-jpl/jenkins/javascript/karma/scrip
tests.sh A /issm/trunk-jpl/jenkins/javascript/karma/scripts/run-server.sh A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/runme.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/runscript.j
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs A /issm/trunk-jpl/jenkins/javascript/karma/scripts
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/3.spec.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/specs/issm.spec.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/t
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test102.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/test103.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test104.js
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test105.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/test106.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test107.js
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test108.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/test109.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test110.js
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test111.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/test112.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test113.js
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test114.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/test115.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test120.js
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test201.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/test202.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test203.js
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test204.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/test205.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test206.js
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test207.js A /issm/trunk-
jpl/jenkins/javascript/karma/scripts/test208.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test209.js
A /issm/trunk-jpl/jenkins/javascript/karma/spec A /issm/trunk-jpl/jenkins/javascript/karma/spec/support
A /issm/trunk-jpl/jenkins/javascript/karma/spec/support/jasmine.json
```

Export determination: 6.

Rationale: Add karma testing suite, fix bug causing extrude to fail Added ability to run tests via karma test runner, ported mask, mesh2d, mesh3dprisms

**Change #220** with diff file ISSM-20769-20770.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plot\_mesh.js

M /issm/trunk-jpl/src/m/plot/plot\_overlay.js M /issm/trunk-jpl/src/m/plot/plot\_quiver.js

M /issm/trunk-jpl/src/m/plot/plotdoc.js M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): js api standardization and changes (initialzoom/zoom, cmap/colormap, image/overlay\_image, colorbarcanvasid/colorbarid, azimuth-bounds/azlim, elevationbounds/azlim, zoombounds/zoomlim) . Full js plot documentation. Implementing linewidth and scaling options for quiver plots.

**Change #221** with diff file ISSM-20770-20771.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Generalizing property recovery function. Property renames. Addressing canvas stretching in 2d orthographic views. Preserving view angles in between perspective changes.

**Change #222** with diff file ISSM-20771-20772.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Additional improvements for webgl.js.

**Change #223** with diff file ISSM-20772-20773.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/WriteData.js

Export determination: 6.

Rationale: CHG (JS): fixed bug (missing name);



**Change #224** with diff file ISSM-20773-20774.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/marshall.js

Export determination: 6.

Rationale: CHG (JS): fixed bug regarding order of the prefix in the marshall call.

**Change #225** with diff file ISSM-20774-20775.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/WriteData.js

Export determination: 6.

Rationale: CHG (JS): fixed issue with check on array length.

**Change #226** with diff file ISSM-20775-20776.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/WriteData.js

Export determination: 6.

Rationale: CHG (JS): fixed bug in data undefined

**Change #227** with diff file ISSM-20776-20777.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: some cleanup.

**Change #228** with diff file ISSM-20777-20778.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/SMBforcing.js M /issm/trunk-jpl/src/m/classes/autodiff.js

M /issm/trunk-jpl/src/m/classes/balancethickness.js M /issm/trunk-jpl/src/m/classes/basalforcings.js

M /issm/trunk-jpl/src/m/classes/calving.js M /issm/trunk-jpl/src/m/classes/constants.js

M /issm/trunk-jpl/src/m/classes/damage.js M /issm/trunk-jpl/src/m/classes/debug.js

M /issm/trunk-jpl/src/m/classes/flaim.js M /issm/trunk-jpl/src/m/classes/flowequation.js

M /issm/trunk-jpl/src/m/classes/friction.js M /issm/trunk-jpl/src/m/classes/geometry.js

M /issm/trunk-jpl/src/m/classes/gia.js M /issm/trunk-jpl/src/m/classes/groundingline.js

M /issm/trunk-jpl/src/m/classes/hydrologyshreve.js M /issm/trunk-jpl/src/m/classes/initialization.js

M /issm/trunk-jpl/src/m/classes/inversion.js M /issm/trunk-jpl/src/m/classes/levelset.js  
M /issm/trunk-jpl/src/m/classes/mask.js M /issm/trunk-jpl/src/m/classes/maskpsl.js  
M /issm/trunk-jpl/src/m/classes/masstransport.js M /issm/trunk-jpl/src/m/classes/matice.js  
M /issm/trunk-jpl/src/m/classes/mesh2d.js M /issm/trunk-jpl/src/m/classes/mesh3dsurface.js  
M /issm/trunk-jpl/src/m/classes/miscellaneous.js M /issm/trunk-jpl/src/m/classes/outputdefinition.js  
M /issm/trunk-jpl/src/m/classes/qmu.js M /issm/trunk-jpl/src/m/classes/rifts.js  
M /issm/trunk-jpl/src/m/classes/settings.js M /issm/trunk-jpl/src/m/classes/slr.js  
M /issm/trunk-jpl/src/m/classes/steadystate.js M /issm/trunk-jpl/src/m/classes/stressbalance.js  
M /issm/trunk-jpl/src/m/classes/thermal.js M /issm/trunk-jpl/src/m/classes/timestepping.js  
M /issm/trunk-jpl/src/m/classes/trans.js M /issm/trunk-jpl/src/m/classes/verbose.js  
M /issm/trunk-jpl/src/m/plot/applyoptions.js  
Export determination: 6.  
Rationale: CHG (JS): massive debug of the javascript runs.

**Change #229** with diff file ISSM-20778-20779.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/1.spec.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/issm-ajax.spec.js

Export determination: 6.

Rationale: Add spec to allow for dynamically loading test scripts

**Change #230** with diff file ISSM-20779-20780.diff:

Function name:

M /issm/trunk-jpl/examples/IceflowModels/eismint.m

Export determination: 6.

Rationale: CHG: minor

**Change #231** with diff file ISSM-20780-20781.diff:

Function name:

M /issm/trunk-jpl/examples/IceflowModels/eismint.m

Export determination: 6.

Rationale: CHG: reverted

**Change #232** with diff file ISSM-20781-20782.diff:

Function name:

A /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/generate-spec.sh  
Export determination: 6.  
Rationale: Add script for generating test spec file

**Change #233** with diff file ISSM-20782-20783.diff:  
Function name:  
D /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/1.spec.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/3.spec.js  
Export determination: 6.  
Rationale: Remove unnecessary specs

**Change #234** with diff file ISSM-20783-20784.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/generate-spec.sh  
Export determination: 6.  
Rationale: Add usage message and error handling for spec generation script

**Change #235** with diff file ISSM-20784-20785.diff:  
Function name:  
A /issm/trunk-jpl/src/m/classes/clusters/cyclone.py A /issm/trunk-jpl/src/m/classes/clusters/hexagon.py  
M /issm/trunk-jpl/src/m/classes/clusters/vilje.m M /issm/trunk-jpl/src/m/classes/clusters/vilje.py  
Export determination: 6.  
Rationale: Add and update UiB clusters

**Change #236** with diff file ISSM-20785-20786.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/model.py  
Export determination: 6.  
Rationale: Adding clusters to model

**Change #237** with diff file ISSM-20786-20787.diff:  
Function name:  
M /issm/trunk-jpl/src/m/contrib/defleurian/paraview/enveloppeVTK.m A /issm/trunk-

jpl/src/m/contrib/defleurian/paraview/enveloppeVTK.py M /issm/trunk-jpl/src/m/contrib/defleurian/paraview/exportVTK.py  
Export determination: 6.  
Rationale: updating paraview writer

**Change #238** with diff file ISSM-20787-20788.diff:  
Function name:  
D /issm/trunk-jpl/externalpackages/matlab  
Export determination: 6.  
Rationale: DEL: do not install matlab, use full path in configure.sh

**Change #239** with diff file ISSM-20788-20789.diff:  
Function name:  
M /issm/trunk-jpl/etc/environment.sh  
Export determination: 6.  
Rationale: CHG: do NOT do anything with matlab\_dir anymore

**Change #240** with diff file ISSM-20789-20790.diff:  
Function name:  
M /issm/trunk-jpl/etc/environment.csh  
Export determination: 6.  
Rationale: CHG: do NOT do anything with matlab\_dir anymore

**Change #241** with diff file ISSM-20790-20791.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plotdoc.js  
M /issm/trunk-jpl/src/m/plot/webgl.js  
Export determination: 6.  
Rationale: CHG (javascript): fixing translations for 2d plots. Adding in color-barinnerlabels options implementation. Updating docs.

**Change #242** with diff file ISSM-20791-20792.diff:  
Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_static  
Export determination: 6.  
Rationale: CHG: Went back to static build for Ubuntu binaries.

**Change #243** with diff file ISSM-20792-20793.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/plot\_quiver.js  
Export determination: 6.  
Rationale: CHG (javascript): Fully scaling arrow quiver plot.

**Change #244** with diff file ISSM-20793-20794.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/project3d.js  
Export determination: 6.  
Rationale: Implement Project3D module, fix issue with undefined reference in model

**Change #245** with diff file ISSM-20794-20795.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js  
M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/project3d.js M /issm/trunk-jpl/jenkins/javascript/karma/package.json M /issm/trunk-jpl/jenkins/javascript/karma/scripts/m2js.sh  
M /issm/trunk-jpl/src/m/classes/geometry.js  
Export determination: 6.  
Rationale: Implement extrude functionality for geometry module

**Change #246** with diff file ISSM-20795-20796.diff:  
Function name:  
M /issm/trunk-jpl/examples/Pig/PigRegion.m M /issm/trunk-jpl/examples/Pig/runme.m  
Export determination: 6.  
Rationale: CHG: fixed some minor problems

**Change #247** with diff file ISSM-20796-20797.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot\_unit.js

Export determination: 6.

Rationale: CHG (javascript): Fixing issue where changing movie slider while paused would not change plot.

**Change #248** with diff file ISSM-20797-20798.diff:

Function name:

M /issm/trunk-jpl/examples/Pig/PigRegion.m

Export determination: 6.

Rationale: CHG: minor

**Change #249** with diff file ISSM-20798-20799.diff:

Function name:

D /issm/trunk-jpl/externalpackages/gfortran

Export determination: 6.

Rationale: DEL not needed

**Change #250** with diff file ISSM-20799-20800.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bi

M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/project3d.js M /issm/trunk-jpl/src/m/classes/friction.js

Export determination: 6.

Rationale: CHG: Implement extrude for friction module, fix issue with allowing NaN comparison in project3d

**Change #251** with diff file ISSM-20800-20801.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bi

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/matlabfunc.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/project3d

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

Export determination: 6.

Rationale: CHG: Implement extrude for inversion module, consolidate matlab helper functions

**Change #252** with diff file ISSM-20801-20802.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bi

M /issm/trunk-jpl/src/m/classes/SMBforcing.js

Export determination: 6.

Rationale: CHG: Implement extrude for SMBforcing

**Change #253** with diff file ISSM-20802-20803.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js

Export determination: 6.

Rationale: CHG (javascript): Fixing issue with Safari runs hanging on download due to decoding issues.

**Change #254** with diff file ISSM-20803-20804.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/controlad\_core.cpp

Export determination: 6.

Rationale: BUG: fixing compilation of AD with m1qn3

**Change #255** with diff file ISSM-20804-20805.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: no PETSc with Adolc

**Change #256** with diff file ISSM-20805-20806.diff:

Function name:

A /issm/trunk-jpl/externalpackages/gsl/install-javascript.sh

Export determination: 6.

Rationale: ADD (javascript): gsl install-javascript.sh

**Change #257** with diff file ISSM-20806-20807.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bi  
M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/friction.js M /issm/trunk-  
jpl/jenkins/javascript/karma/lib/bin/geometry.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/initializ  
M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/inversion.js M /issm/trunk-  
jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/project3d  
M /issm/trunk-jpl/src/m/classes/SMBforcing.js M /issm/trunk-jpl/src/m/classes/friction.js  
M /issm/trunk-jpl/src/m/classes/geometry.js M /issm/trunk-jpl/src/m/classes/initialization.js  
M /issm/trunk-jpl/src/m/classes/inversion.js

Export determination: 6.

Rationale: FIX: Project3D not producing correct results for thickness, surface  
fields CHG: Align extrude functions from multiple modules to be more in line  
with MATLAB's CHG: Implement extrude functionality for initialization mod-  
ule

**Change #258** with diff file ISSM-20807-20808.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bi  
M /issm/trunk-jpl/src/m/classes/flowequation.js

Export determination: 6.

Rationale: CHG: Implement extrude for flow equation

**Change #259** with diff file ISSM-20808-20809.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bi  
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/stressbalance.js M /issm/trunk-  
jpl/src/m/classes/stressbalance.js

Export determination: 6.

Rationale: CHG: Implement extrude for stress balance

**Change #260** with diff file ISSM-20809-20810.diff:

Function name:



M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/matlabfunc.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/stressbalance.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/the  
 Export determination: 6.  
 Rationale: CHG: Add find,fill functions for 2D matrices to common helper lib  
 CHG: Implement extrude for thermal module FIX: Invalid reference to md in stressbalance

**Change #261** with diff file ISSM-20810-20811.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Constraints/SpcDynamic.cpp M /issm/trunk-jpl/src/c/classes/Constraints/SpcDynamic.h M /issm/trunk-jpl/src/c/classes/Constraints/SpcStatic.cpp M /issm/trunk-jpl/src/c/classes/Constraints/SpcStatic.h M /issm/trunk-jpl/src/c/classes/Constraints/SpcTransient.h M /issm/trunk-jpl/src/c/classes/Constraints/SpcTransient.h M /issm/trunk-jpl/src/c/classes/Contour.h M /issm/trunk-jpl/src/c/classes/DependentObject.cpp M /issm/trunk-jpl/src/c/classes/DependentObject.h M /issm/trunk-jpl/src/c/classes/DofIndexing.cpp M /issm/trunk-jpl/src/c/classes/DofIndexing.h M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp M /issm/trunk-jpl/src/c/classes/Elements/Element.h M /issm/trunk-jpl/src/c/classes/Elements/Elements.cpp M /issm/trunk-jpl/src/c/classes/Elements/Elements.h M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp M /issm/trunk-jpl/src/c/classes/Elements/Penta.h M /issm/trunk-jpl/src/c/classes/Elements/PentaRef.cpp M /issm/trunk-jpl/src/c/classes/Elements/PentaRef.h M /issm/trunk-jpl/src/c/classes/Elements/Seg.h M /issm/trunk-jpl/src/c/classes/Elements/SegRef.h M /issm/trunk-jpl/src/c/classes/Elements/Tetra.h M /issm/trunk-jpl/src/c/classes/Elements/TetraRef.h M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.h M /issm/trunk-jpl/src/c/classes/Elements/TriaRef.cpp M /issm/trunk-jpl/src/c/classes/Elements/TriaRef.h M /issm/trunk-jpl/src/c/classes/ExternalResults/ExternalResults.cpp M /issm/trunk-jpl/src/c/classes/ExternalResults/ExternalResults.h M /issm/trunk-jpl/src/c/classes/ExternalResults/GenericExternalResult.h M /issm/trunk-jpl/src/c/classes/ExternalResults/Results.cpp M /issm/trunk-jpl/src/c/classes/ExternalResults/Results.h 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/GiaDeflectionCoreArgs.h M /issm/trunk-jpl/src/c/classes/Hook.cpp M /issm/trunk-jpl/src/c/classes/Hook.h M /issm/trunk-jpl/src/c/classes/Inputs/BoolInput.cpp M /issm/trunk-jpl/src/c/classes/Inputs/BoolInput.h M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/classes/IoModel.h M /issm/trunk-jpl/src/c/classes/Masscon.h M /issm/trunk-jpl/src/c/classes/Massconaxpby.h M /issm/trunk-jpl/src/c/classes/Massfluxatgate.h M /issm/trunk-jpl/src/c/classes/Misfit.h M /issm/trunk-jpl/src/c/classes/Nodalvalue.h M /issm/trunk-jpl/src/c/classes/Node.cpp M /issm/trunk-jpl/src/c/classes/Node.h M /issm/trunk-jpl/src/c/classes/Nodes.cpp M /issm/trunk-jpl/src/c/classes/Nodes.h M /issm/trunk-jpl/src/c/classes/Profiler.cpp M /issm/trunk-jpl/src/c/classes/Profiler.h M /issm/trunk-jpl/src/c/classes/RiftStruct.h M /issm/trunk-jpl/src/c/classes/Segment.h M /issm/trunk-jpl/src/c/classes/Update.h M /issm/trunk-jpl/src/c/classes/Vertex.cpp M /issm/trunk-jpl/src/c/classes/Vertex.h

Export determination: 6.

Rationale: Started alphabetizing function names under src/classes

**Change #262** with diff file ISSM-20811-20812.diff:

Function name:

M /issm/trunk-jpl/src/m/Makefile.am A /issm/trunk-jpl/src/m/modules A /issm/trunk-jpl/src/m/modules/ContourToNodes.m A /issm/trunk-jpl/src/m/modules/ContourToNodes.py M /issm/trunk-jpl/src/wrappers/ContourToNodes/ContourToNodes.cpp M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am M /issm/trunk-jpl/src/wrappers/python/Makefile.am

Export determination: 6.

Rationale: CHG: renaming modules with `_python` `_matlab`

**Change #263** with diff file ISSM-20812-20813.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bi M /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/issm-ajax.spec.js M /issm/trunk-jpl/src/m/classes/masstransport.js M /issm/trunk-jpl/src/m/classes/stressbalance.js M /issm/trunk-jpl/src/m/classes/thermal.js

Export determination: 6.

Rationale: CHG: Implement extrude for masstransport, thermal BUG: Fix invalid reference to md in stressbalance

**Change #264** with diff file ISSM-20813-20814.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/levelset.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/src/m/classes/levelset.js

Export determination: 6.

Rationale: CHG: Implement extrude for levelset

**Change #265** with diff file ISSM-20814-20815.diff:

Function name:

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/calving.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/src/m/classes/calving.js

Export determination: 6.

Rationale: CHG: Implement extrude for calving

**Change #266** with diff file ISSM-20815-20816.diff:

Function name:

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/hydrologyshreve.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/src/m/classes/hydrologyshreve.js  
M /issm/trunk-jpl/src/m/classes/model.js  
Export determination: 6.  
Rationale: CHG: Update model in src/m/classes CHG: Implement extrude for hydrologyshreve

**Change #267** with diff file ISSM-20816-20817.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test285.m M /issm/trunk-jpl/test/NightlyRun/test285.py  
M /issm/trunk-jpl/test/NightlyRun/test455.m M /issm/trunk-jpl/test/NightlyRun/test455.py

Export determination: 6.

Rationale: CHG: relaxing tolerances

**Change #268** with diff file ISSM-20817-20818.diff:

Function name:

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/matice.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/src/m/classes/matice.js  
M /issm/trunk-jpl/src/m/classes/model.js

Export determination: 6.

Rationale: CHG: Implement extrude for matice (material)

**Change #269** with diff file ISSM-20818-20819.diff:

Function name:

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/damage.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/src/m/classes/damage.js  
M /issm/trunk-jpl/src/m/classes/model.js

Export determination: 6.

Rationale: CHG: Implement extrude for damage

**Change #270** with diff file ISSM-20819-20820.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mask.js M /issm/trunk-jpl/src/m/classes/mask.js

Export determination: 6.

Rationale: CHG: Implement extrude for mask

**Change #271** with diff file ISSM-20820-20821.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/loadresultsfromcluster.py

Export determination: 6.

Rationale: NEW:adding a test if outbin is empty which can happen if your run reach the walltime

**Change #272** with diff file ISSM-20821-20822.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/loadresultsfromdisk.m

Export determination: 6.

Rationale: CHG: better error message

**Change #273** with diff file ISSM-20822-20823.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive435.nc

Export determination: 6.

Rationale: CHG: saving new archive

**Change #274** with diff file ISSM-20823-20824.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js M /issm/trunk-jpl/src/m/plot/plot\_unit.js

M /issm/trunk-jpl/src/m/plot/slider.js M /issm/trunk-jpl/src/m/solve/solve.js

Export determination: 6.

Rationale: CHG (javascript): Integrating new sliders and progress bars. Updating solve to accept callback id for displaying computation progress info.

**Change #275** with diff file ISSM-20824-20825.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bi

M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/matlabfunc.js M /issm/trunk-

jpl/jenkins/javascript/karma/lib/bin/model.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/qmu.js  
M /issm/trunk-jpl/jenkins/javascript/karma/package.json M /issm/trunk-jpl/src/m/classes/basalforcings.js  
M /issm/trunk-jpl/src/m/classes/model.js M /issm/trunk-jpl/src/m/classes/qmu.js  
Export determination: 6.  
Rationale: CHG: Implement extrude for qmu, basalforcings CHG: Add 2D array find to matlab helper lib CHG: Add mathjs for transposing matrices

**Change #276** with diff file ISSM-20825-20826.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js M /issm/trunk-jpl/src/m/classes/model.js

Export determination: 6.

Rationale: FIX: Fix invalid reference to md.private (private -i priv)

**Change #277** with diff file ISSM-20826-20827.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/stressbalance.js M /issm/trunk-jpl/src/m/classes/stressbalance.js

Export determination: 6.

Rationale: FIX: Stressbalance extrude returns undefined

**Change #278** with diff file ISSM-20827-20828.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Inputs/BoolInput.h M /issm/trunk-jpl/src/c/classes/Inputs/ControlInput.cpp  
M /issm/trunk-jpl/src/c/classes/Inputs/ControlInput.h M /issm/trunk-jpl/src/c/classes/Inputs/DatasetInput.h  
M /issm/trunk-jpl/src/c/classes/Inputs/DatasetInput.h M /issm/trunk-jpl/src/c/classes/Inputs/DoubleArray  
M /issm/trunk-jpl/src/c/classes/Inputs/DoubleArrayInput.h M /issm/trunk-jpl/src/c/classes/Inputs/DoubleInput.cpp  
M /issm/trunk-jpl/src/c/classes/Inputs/DoubleInput.h M /issm/trunk-jpl/src/c/classes/Inputs/Input.h M /issm/trunk-jpl/src/c/classes/Inputs/Inputs.cpp  
M /issm/trunk-jpl/src/c/classes/Inputs/Inputs.h M /issm/trunk-jpl/src/c/classes/Inputs/IntInput.cpp  
M /issm/trunk-jpl/src/c/classes/Inputs/IntInput.h M /issm/trunk-jpl/src/c/classes/Inputs/PentaInput.cpp  
M /issm/trunk-jpl/src/c/classes/Inputs/PentaInput.h M /issm/trunk-jpl/src/c/classes/Inputs/SegInput.cpp  
M /issm/trunk-jpl/src/c/classes/Inputs/SegInput.h M /issm/trunk-jpl/src/c/classes/Inputs/TetraInput.cpp  
M /issm/trunk-jpl/src/c/classes/Inputs/TetraInput.h M /issm/trunk-jpl/src/c/classes/Inputs/TransientInput.cpp  
M /issm/trunk-jpl/src/c/classes/Inputs/TransientInput.h M /issm/trunk-jpl/src/c/classes/Inputs/TriaInput.c  
M /issm/trunk-jpl/src/c/classes/Inputs/TriaInput.h M /issm/trunk-jpl/src/c/classes/Loads/Friction.cpp  
M /issm/trunk-jpl/src/c/classes/Loads/Friction.h M /issm/trunk-jpl/src/c/classes/Loads/Moulin.cpp  
M /issm/trunk-jpl/src/c/classes/Loads/Moulin.h M /issm/trunk-jpl/src/c/classes/Loads/Neumannflux.cpp

M /issm/trunk-jpl/src/c/classes/Loads/Neumannflux.h M /issm/trunk-jpl/src/c/classes/Loads/Numericalflux  
M /issm/trunk-jpl/src/c/classes/Loads/Numericalflux.h M /issm/trunk-jpl/src/c/classes/Loads/Pengrid.cpp  
M /issm/trunk-jpl/src/c/classes/Loads/Pengrid.h M /issm/trunk-jpl/src/c/classes/Loads/Penpair.cpp  
M /issm/trunk-jpl/src/c/classes/Loads/Penpair.h M /issm/trunk-jpl/src/c/classes/Loads/Riftfront.cpp  
M /issm/trunk-jpl/src/c/classes/Loads/Riftfront.h M /issm/trunk-jpl/src/c/classes/Materials/Material.h  
M /issm/trunk-jpl/src/c/classes/Materials/Matestar.cpp M /issm/trunk-jpl/src/c/classes/Materials/Matestar.h  
M /issm/trunk-jpl/src/c/classes/Materials/Matrice.cpp M /issm/trunk-jpl/src/c/classes/Materials/Matrice.h  
M /issm/trunk-jpl/src/c/classes/Materials/Matpar.cpp M /issm/trunk-jpl/src/c/classes/Materials/Matpar.h  
M /issm/trunk-jpl/src/c/classes/Options/GenericOption.h M /issm/trunk-jpl/src/c/classes/Options/Option.h  
M /issm/trunk-jpl/src/c/classes/Options/OptionUtilities.cpp M /issm/trunk-  
jpl/src/c/classes/Options/OptionUtilities.h M /issm/trunk-jpl/src/c/classes/Params/BoolParam.cpp  
M /issm/trunk-jpl/src/c/classes/Params/BoolParam.h M /issm/trunk-jpl/src/c/classes/Params/DataSetParam.h  
M /issm/trunk-jpl/src/c/classes/Params/DataSetParam.h M /issm/trunk-jpl/src/c/classes/Params/DoubleMatParam.h  
M /issm/trunk-jpl/src/c/classes/Params/DoubleMatArrayParam.h M /issm/trunk-  
jpl/src/c/classes/Params/DoubleParam.cpp M /issm/trunk-jpl/src/c/classes/Params/DoubleParam.h  
M /issm/trunk-jpl/src/c/classes/Params/DoubleVecParam.cpp M /issm/trunk-  
jpl/src/c/classes/Params/DoubleVecParam.h M /issm/trunk-jpl/src/c/classes/Params/FileParam.cpp  
M /issm/trunk-jpl/src/c/classes/Params/FileParam.h M /issm/trunk-jpl/src/c/classes/Params/GenericParam.h  
M /issm/trunk-jpl/src/c/classes/Params/IntMatParam.cpp M /issm/trunk-jpl/src/c/classes/Params/IntMatParam.h  
M /issm/trunk-jpl/src/c/classes/Params/IntParam.cpp M /issm/trunk-jpl/src/c/classes/Params/IntParam.h  
M /issm/trunk-jpl/src/c/classes/Params/IntVecParam.cpp M /issm/trunk-jpl/src/c/classes/Params/IntVecParam.h  
M /issm/trunk-jpl/src/c/classes/Params/MatrixParam.cpp M /issm/trunk-jpl/src/c/classes/Params/MatrixParam.h  
M /issm/trunk-jpl/src/c/classes/Params/Param.h M /issm/trunk-jpl/src/c/classes/Params/Parameters.cpp  
M /issm/trunk-jpl/src/c/classes/Params/Parameters.h M /issm/trunk-jpl/src/c/classes/Params/StringArrayParam.h  
M /issm/trunk-jpl/src/c/classes/Params/StringArrayParam.h M /issm/trunk-  
jpl/src/c/classes/Params/StringParam.cpp M /issm/trunk-jpl/src/c/classes/Params/StringParam.h  
M /issm/trunk-jpl/src/c/classes/Params/TransientParam.cpp M /issm/trunk-  
jpl/src/c/classes/Params/TransientParam.h M /issm/trunk-jpl/src/c/classes/Params/VectorParam.cpp  
M /issm/trunk-jpl/src/c/classes/Params/VectorParam.h M /issm/trunk-jpl/src/c/classes/gauss/Gauss.h  
M /issm/trunk-jpl/src/c/classes/gauss/GaussPenta.cpp M /issm/trunk-jpl/src/c/classes/gauss/GaussPenta.h  
M /issm/trunk-jpl/src/c/classes/gauss/GaussSeg.cpp M /issm/trunk-jpl/src/c/classes/gauss/GaussSeg.h  
M /issm/trunk-jpl/src/c/classes/gauss/GaussTetra.cpp M /issm/trunk-jpl/src/c/classes/gauss/GaussTetra.h  
M /issm/trunk-jpl/src/c/classes/gauss/GaussTria.cpp M /issm/trunk-jpl/src/c/classes/gauss/GaussTria.h  
M /issm/trunk-jpl/src/c/classes/kriging/Covertree.cpp M /issm/trunk-jpl/src/c/classes/kriging/Covertree.h  
M /issm/trunk-jpl/src/c/classes/kriging/ExponentialVariogram.cpp M /issm/trunk-  
jpl/src/c/classes/kriging/ExponentialVariogram.h M /issm/trunk-jpl/src/c/classes/kriging/GaussianVariogram.h  
M /issm/trunk-jpl/src/c/classes/kriging/GaussianVariogram.h M /issm/trunk-  
jpl/src/c/classes/kriging/Observation.cpp M /issm/trunk-jpl/src/c/classes/kriging/Observation.h  
M /issm/trunk-jpl/src/c/classes/kriging/Observations.cpp M /issm/trunk-jpl/src/c/classes/kriging/Observations.h  
M /issm/trunk-jpl/src/c/classes/kriging/PowerVariogram.cpp M /issm/trunk-  
jpl/src/c/classes/kriging/PowerVariogram.h M /issm/trunk-jpl/src/c/classes/kriging/Quadtree.cpp  
M /issm/trunk-jpl/src/c/classes/kriging/Quadtree.h M /issm/trunk-jpl/src/c/classes/kriging/SphericalVariogram.h  
M /issm/trunk-jpl/src/c/classes/kriging/SphericalVariogram.h M /issm/trunk-  
jpl/src/c/classes/kriging/Variogram.h M /issm/trunk-jpl/src/c/classes/matrix/ElementMatrix.cpp  
M /issm/trunk-jpl/src/c/classes/matrix/ElementMatrix.h M /issm/trunk-jpl/src/c/classes/matrix/ElementVector.h  
M /issm/trunk-jpl/src/c/classes/matrix/ElementVector.h

Export determination: 6.  
Rationale: CHG: Alphabetized all function names under classes

**Change #279** with diff file ISSM-20828-20829.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mask.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/specs/issm-ajax.spec.js M /issm/trunk-jpl/src/m/classes/mask.js

Export determination: 6.

Rationale: FIX: Invalid call to WriteData fails because prefix is included

**Change #280** with diff file ISSM-20829-20830.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plotdoc.js

Export determination: 6.

Rationale: CHG (javascript): Updating colorbar implementation to use html elements. Removing colorbarorientation support for horizontal colorbars.

**Change #281** with diff file ISSM-20830-20831.diff:

Function name:

D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/EnumDefinitions.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/SMBforcing.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/basatransp  
D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/calving.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/damage.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/flowequa  
D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/friction.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/hydrolo  
D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/initialization.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/inversion.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/issm-  
binaries.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/issm-extlibraries.js  
D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/levelset.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/masstransp  
D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/matrice.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mesh  
D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mesh3dprisms.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/project3d.  
D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/qmu.js D /issm/trunk-jpl/jenkins/javascript/karma/lib/b  
D /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/thermal.js

Export determination: 6.

Rationale: CHG: Remove hard links to classes in karma folder

**Change #282** with diff file ISSM-20831-20832.diff:

Function name:

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/EnumDefinitions.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/SMBforcing.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/basa  
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/calving.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/damage.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/flowequa  
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/friction.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/geometry.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/hydrolo  
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/initialization.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/inversion.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/levelset  
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mask.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/matice.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/matlabfunc.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mesh  
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/mesh3dprisms.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/model.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/project3d.  
A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/qmu.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/thermal.js

Export determination: 6.

Rationale: CHG: Create symlinks for included classes in karma

**Change #283** with diff file ISSM-20832-20833.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js M /issm/trunk-jpl/src/m/classes/mask.js  
A /issm/trunk-jpl/src/m/classes/mesh3dprisms.js A /issm/trunk-jpl/src/m/extrusion/project3d.js

Export determination: 6.

Rationale: FIX: Revert change to marshall in mask class (add prefix argument)

CHG: Ported mesh3dprisms and project3d to javascript

**Change #284** with diff file ISSM-20833-20834.diff:

Function name:

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

Export determination: 6.

Rationale: CHG (javascript): Bug fix for colorbar showing excessive values on additional runs.



**Change #285** with diff file ISSM-20834-20835.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: scale googlemaps image with unit conversion factor

**Change #286** with diff file ISSM-20835-20836.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/StressbalanceAnalysis.cpp

Export determination: 6.

Rationale: BUG: do apply pressure force even if FS front is not floating

**Change #287** with diff file ISSM-20836-20837.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Eliminating blank frames in between consecutive plotmodel calls.

**Change #288** with diff file ISSM-20837-20838.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (javascript): Recommitting blank frame fix.

**Change #289** with diff file ISSM-20838-20839.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts

M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test109.js M /issm/trunk-

jpl/src/m/classes/flowequation.js M /issm/trunk-jpl/src/m/classes/friction.js M

/issm/trunk-jpl/src/m/classes/masstransport.js M /issm/trunk-jpl/src/m/classes/matice.js

M /issm/trunk-jpl/src/m/classes/model.js M /issm/trunk-jpl/src/m/classes/qmu.js

M /issm/trunk-jpl/src/m/extrusion/project3d.js

Export determination: 6.

Rationale: FIX: model overwriting global mesh2d, shadowing constructor in

tests following any call to md.extrude FIX: project3d handling edge case inputs  
incorrectly FIX: translate model.transient (matlab) -i model.trans (js) FIX:  
friction class extrude variable assignments

**Change #290** with diff file ISSM-20839-20840.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: Options for triangle to fix javascript build on Linux.

**Change #291** with diff file ISSM-20840-20841.diff:

Function name:

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

M /issm/trunk-jpl/src/c/main/kriging.cpp M /issm/trunk-jpl/src/m/classes/pairoptions.m

M /issm/trunk-jpl/src/m/contrib/morlighem/gslib/pkriging.m

Export determination: 6.

Rationale: CHG: fixed kriging with new marshall

**Change #292** with diff file ISSM-20841-20842.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/mesh3dprisms.m

Export determination: 6.

Rationale: CHG (JS): savemodeljs implemented.

**Change #293** with diff file ISSM-20842-20843.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Numerics/isnan.cpp

Export determination: 6.

Rationale: CHG: Fixed scope issue with isnan and isinf functions.

**Change #294** with diff file ISSM-20843-20844.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/SMBforcing.js M /issm/trunk-jpl/src/m/classes/mesh3dprisms.js

Export determination: 6.  
Rationale: FIX: mesh3dprisms not having marshall defined within the class,  
support folding for mesh3dprisms

**Change #295** with diff file ISSM-20844-20845.diff:

Function name:  
M /issm/trunk-jpl/src/m/classes/mesh3dprisms.js  
Export determination: 6.  
Rationale: CHG: folds are back

**Change #296** with diff file ISSM-20845-20846.diff:

Function name:  
A /issm/trunk-jpl/src/m/modules/ContourToMesh.m A /issm/trunk-jpl/src/m/modules/ContourToMesh.py  
M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am M /issm/trunk-jpl/src/wrappers/python/Makefile.am  
Export determination: 6.  
Rationale: NEW: Added matlab and python help for ContourToMesh

**Change #297** with diff file ISSM-20846-20847.diff:

Function name:  
A /issm/trunk-jpl/src/m/modules/BamgConvertMesh.m A /issm/trunk-jpl/src/m/modules/BamgConvertMesh.py  
M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am M /issm/trunk-jpl/src/wrappers/python/Makefile.am  
Export determination: 6.  
Rationale: NEW: Added matlab and python help for BamgConvertMesh

**Change #298** with diff file ISSM-20847-20848.diff:

Function name:  
M /issm/trunk-jpl/src/m/modules/ContourToMesh.m M /issm/trunk-jpl/src/wrappers/ContourToMesh/ContourToMesh.py  
Export determination: 6.  
Rationale: BUG: fixing ContourToMesh

**Change #299** with diff file ISSM-20848-20849.diff:

Function name:  
M /issm/trunk-jpl/src/m/modules/ContourToMesh.m

Export determination: 6.  
Rationale: BUG: output should be varargout

**Change #300** with diff file ISSM-20849-20850.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/windows  
Export determination: 6.  
Rationale: CHG: Updated the names of the installation scripts for Windows build.

**Change #301** with diff file ISSM-20850-20851.diff:  
Function name:  
A /issm/trunk-jpl/src/m/modules/BamgMesher.m A /issm/trunk-jpl/src/m/modules/BamgMesher.py  
M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am M /issm/trunk-jpl/src/wrappers/python/Makefile.am  
Export determination: 6.  
Rationale: NEW: Added matlab and python help for BamgMesher wrapper

**Change #302** with diff file ISSM-20851-20852.diff:  
Function name:  
A /issm/trunk-jpl/src/m/modules/BamgTriangulate.m M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am  
Export determination: 6.  
Rationale: NEW: Added matlab help for BamgTriangulate wrapper

**Change #303** with diff file ISSM-20852-20853.diff:  
Function name:  
M /issm/trunk-jpl/src/wrappers/BamgTriangulate/BamgTriangulate.cpp M /issm/trunk-jpl/src/wrappers/python/Makefile.am  
Export determination: 6.  
Rationale: NEW: adding BamgTriangulate to python wrappers

**Change #304** with diff file ISSM-20853-20854.diff:  
Function name:  
M /issm/trunk-jpl/src/wrappers/python/Makefile.am

Export determination: 6.  
Rationale: BUG: wrong source for BamgTriangulate

**Change #305** with diff file ISSM-20854-20855.diff:  
Function name:  
M /issm/trunk-jpl/src/wrappers/python/Makefile.am  
Export determination: 6.  
Rationale: BUG: do NOT use subdir objects right now

**Change #306** with diff file ISSM-20855-20856.diff:  
Function name:  
M /issm/trunk-jpl/src/wrappers/BamgMesher/BamgMesher.cpp M /issm/trunk-jpl/src/wrappers/BamgTriangulate/BamgTriangulate.cpp M /issm/trunk-jpl/src/wrappers/ContourToMesh/C  
Export determination: 6.  
Rationale: BUG: added module init for python wrappers

**Change #307** with diff file ISSM-20856-20857.diff:  
Function name:  
M /issm/trunk-jpl/src/wrappers/BamgConvertMesh/BamgConvertMesh.cpp  
Export determination: 6.  
Rationale: CHG: missing \_python in WRAPPER

**Change #308** with diff file ISSM-20857-20858.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/clusters/pfe.m  
Export determination: 6.  
Rationale: CHG: minor indenting

**Change #309** with diff file ISSM-20858-20859.diff:  
Function name:  
M /issm/trunk-jpl/src/m/modules/ContourToMesh.py  
Export determination: 6.  
Rationale: BUG: ContourToMesh is really messed up

**Change #310** with diff file ISSM-20859-20860.diff:

Function name:

A /issm/trunk-jpl/src/m/modules/Chaco.m M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am

Export determination: 6.

Rationale: NEW: Added matlab help for Chaco wrapper

**Change #311** with diff file ISSM-20860-20861.diff:

Function name:

A /issm/trunk-jpl/src/m/modules/BamgTriangulate.py M /issm/trunk-jpl/src/wrappers/python/Makefile.am

Export determination: 6.

Rationale: CHG: Renamed BamgTriangulate module under python/Makefile.am

to BamgTriangulate\_python and created python help for BamgTriangulate

**Change #312** with diff file ISSM-20861-20862.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: Fixed BamgTriangulate in Makefile allowing ISSM to build correctly

**Change #313** with diff file ISSM-20862-20863.diff:

Function name:

A /issm/trunk-jpl/src/m/modules/DistanceToMaskBoundary.m M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am

Export determination: 6.

Rationale: NEW: Added matlab help for DistanceToMaskBoundary wrapper

**Change #314** with diff file ISSM-20863-20864.diff:

Function name:

M /issm/trunk-jpl/src/m/Makefile.am M /issm/trunk-jpl/src/m/plot/applyoptions.js

M /issm/trunk-jpl/src/m/plot/gauge.js M /issm/trunk-jpl/src/m/plot/slider.js

D /issm/trunk-jpl/src/m/plot/tooltips.js

Export determination: 6.  
Rationale: CHG (javascript): Integrating jquinn's js plot patches. DEL (javascript):  
tooltips not needed anymore.

**Change #315** with diff file ISSM-20864-20865.diff:  
Function name:  
A /issm/trunk-jpl/jenkins/linux64\_ross\_javascript  
Export determination: 6.  
Rationale: ADD: Jenkins config script for Javascript tests.

**Change #316** with diff file ISSM-20865-20866.diff:  
Function name:  
M /issm/trunk-jpl/externalpackages/gsl/install-javascript.sh  
Export determination: 6.  
Rationale: CHG: Permissions were wrong.

**Change #317** with diff file ISSM-20866-20867.diff:  
Function name:  
M /issm/trunk-jpl/externalpackages/gsl/install-javascript.sh  
Export determination: 6.  
Rationale: CHG: Trying to change permissions again.

**Change #318** with diff file ISSM-20867-20868.diff:  
Function name:  
A /issm/trunk-jpl/externalpackages/emscripten A /issm/trunk-jpl/externalpackages/emscripten/install.sh  
D /issm/trunk-jpl/externalpackages/gsl/install-javascript.sh M /issm/trunk-jpl/jenkins/linux64\_ross\_javascript  
Export determination: 6.  
Rationale: CHG: Added emscripten as an external packages required for Javascript  
build. ADD: Added the directory and install script for emscripten. DEL: GSL  
javascript installation script because of issue with permissions. Restoring on  
next commit.

**Change #319** with diff file ISSM-20868-20869.diff:

Function name:

A /issm/trunk-jpl/externalpackages/gsl/install-javascript.sh

Export determination: 6.

Rationale: ADD: Restored javascript installation script for GSL. Hopefully permissions are good!

**Change #320** with diff file ISSM-20869-20870.diff:

Function name:

M /issm/trunk-jpl/externalpackages/emscripten/install.sh

Export determination: 6.

Rationale: CHG: Fixed an emscripten installation issue.

**Change #321** with diff file ISSM-20870-20871.diff:

Function name:

M /issm/trunk-jpl/externalpackages/emscripten/install.sh

Export determination: 6.

Rationale: CHG: Force installation script to use GCC compilers.

**Change #322** with diff file ISSM-20871-20872.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.h M /issm/trunk-jpl/src/c/classes/Elements/Penta.h

M /issm/trunk-jpl/src/c/classes/Elements/Seg.h M /issm/trunk-jpl/src/c/classes/Elements/Tetra.h

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

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

Export determination: 6.

Rationale: CHG: GetAreaSpherical added to compute spherical area

**Change #323** with diff file ISSM-20872-20873.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive2002.nc

Export determination: 6.

Rationale: CHG: test2002 archive updated as we improve computations of spherical surface area



**Change #324** with diff file ISSM-20873-20874.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_javascript

Export determination: 6.

Rationale: CHG: Removed wrappers.

**Change #325** with diff file ISSM-20874-20875.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_javascript

Export determination: 6.

Rationale: FIX: Typo!.

**Change #326** with diff file ISSM-20875-20876.diff:

Function name:

M /issm/trunk-jpl/src/m/modules/Chaco.m M /issm/trunk-jpl/src/m/modules/ContourToMesh.m

A /issm/trunk-jpl/src/m/modules/ElementConnectivity.m A /issm/trunk-jpl/src/m/modules/ElementConnectivity.py

A /issm/trunk-jpl/src/m/modules/EnumToString.m A /issm/trunk-jpl/src/m/modules/EnumToString.py

A /issm/trunk-jpl/src/m/modules/Exp2Kml.m A /issm/trunk-jpl/src/m/modules/ExpSimplify.m

A /issm/trunk-jpl/src/m/modules/ExpToLevelSet.m A /issm/trunk-jpl/src/m/modules/InterpFromGridToMesh.m

A /issm/trunk-jpl/src/m/modules/InterpFromGridToMesh.py A /issm/trunk-

jpl/src/m/modules/InterpFromMesh2d.m A /issm/trunk-jpl/src/m/modules/InterpFromMeshToGrid.m

A /issm/trunk-jpl/src/m/modules/InterpFromMeshToGrid.py A /issm/trunk-

jpl/src/m/modules/InterpFromMeshToMesh2d.m A /issm/trunk-jpl/src/m/modules/InterpFromMeshToMesh

A /issm/trunk-jpl/src/m/modules/InterpFromMeshToMesh3d.m A /issm/trunk-

jpl/src/m/modules/InterpFromMeshToMesh3d.py A /issm/trunk-jpl/src/m/modules/IssmConfig.m

A /issm/trunk-jpl/src/m/modules/IssmConfig.py A /issm/trunk-jpl/src/m/modules/KMLFileRead.m

A /issm/trunk-jpl/src/m/modules/KMLMeshWrite.m A /issm/trunk-jpl/src/m/modules/KMLOverlay.m

A /issm/trunk-jpl/src/m/modules/Kml2Exp.m A /issm/trunk-jpl/src/m/modules/Kriging.m

A /issm/trunk-jpl/src/m/modules/Ll2xy.m A /issm/trunk-jpl/src/m/modules/M1qn3.m

A /issm/trunk-jpl/src/m/modules/MeshPartition.m A /issm/trunk-jpl/src/m/modules/MeshProfileIntersection.m

A /issm/trunk-jpl/src/m/modules/MeshProfileIntersection.py A /issm/trunk-

jpl/src/m/modules/NodeConnectivity.m A /issm/trunk-jpl/src/m/modules/NodeConnectivity.py

A /issm/trunk-jpl/src/m/modules/PointCloudFindNeighbors.m A /issm/trunk-

jpl/src/m/modules/PropagateFlagsFromConnectivity.m A /issm/trunk-jpl/src/m/modules/Scotch.m

A /issm/trunk-jpl/src/m/modules/Shp2Kml.m A /issm/trunk-jpl/src/m/modules/ShpRead.m

A /issm/trunk-jpl/src/m/modules/StringToEnum.m A /issm/trunk-jpl/src/m/modules/StringToEnum.py

A /issm/trunk-jpl/src/m/modules/TriMesh.m A /issm/trunk-jpl/src/m/modules/TriMesh.py

A /issm/trunk-jpl/src/m/modules/TriMeshProcessRifts.m A /issm/trunk-jpl/src/m/modules/TriMeshProcessRifts.py

A /issm/trunk-jpl/src/m/modules/Xy2ll.m M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am

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

Export determination: 6.

Rationale: NEW: Added native help (ie. 'help ModuleName') for all matlab and python modules under src/wrappers

**Change #327** with diff file ISSM-20876-20877.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: Changed EnumDefinitions to import the correct StringToEnum file

**Change #328** with diff file ISSM-20877-20878.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/Chaco/Chaco.cpp M /issm/trunk-jpl/src/wrappers/DistanceToMaskBoundaries

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

M /issm/trunk-jpl/src/wrappers/EnumToString/EnumToString.cpp M /issm/trunk-jpl/src/wrappers/Exp2Kml/Exp2Kml.cpp M /issm/trunk-jpl/src/wrappers/ExpSimplify/ExpSimplify.cpp

M /issm/trunk-jpl/src/wrappers/ExpToLevelSet/ExpToLevelSet.cpp M /issm/trunk-jpl/src/wrappers/InterpFromGridToMesh/InterpFromGridToMesh.cpp M /issm/trunk-jpl/src/wrappers/InterpFromMesh2d/InterpFromMesh2d.cpp M /issm/trunk-jpl/src/wrappers/InterpFromMeshToGrid/InterpFromMeshToGrid.cpp M /issm/trunk-jpl/src/wrappers/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.cpp M /issm/trunk-jpl/src/wrappers/InterpFromMeshToMesh3d/InterpFromMeshToMesh3d.cpp

M /issm/trunk-jpl/src/wrappers/IssmConfig/IssmConfig.cpp M /issm/trunk-jpl/src/wrappers/KMLFileRead/KMLFileRead.cpp M /issm/trunk-jpl/src/wrappers/KMLMeshWrite/KMLMeshWrite.cpp M /issm/trunk-jpl/src/wrappers/KMLOverlay/KMLOverlay.cpp M /issm/trunk-jpl/src/wrappers/Kml2Exp/Kml2Exp.cpp M /issm/trunk-jpl/src/wrappers/Kriging/Kriging.cpp M /issm/trunk-jpl/src/wrappers/Ll2xy/Ll2xy.cpp M /issm/trunk-jpl/src/wrappers/M1qn3/M1qn3.cpp M /issm/trunk-jpl/src/wrappers/MeshPartition/MeshPartition.cpp M /issm/trunk-jpl/src/wrappers/MeshProfileIntersection/MeshProfileIntersection.cpp M /issm/trunk-jpl/src/wrappers/NodeConnectivity/NodeConnectivity.cpp M /issm/trunk-jpl/src/wrappers/PointCloudFindNeighbors/PointCloudFindNeighbors.cpp M /issm/trunk-jpl/src/wrappers/PropagateFlagsFromConnectivity/PropagateFlagsFromConnectivity.cpp M /issm/trunk-jpl/src/wrappers/Shp2Kml/Shp2Kml.cpp M /issm/trunk-jpl/src/wrappers/ShpRead/ShpRead.cpp M /issm/trunk-jpl/src/wrappers/StringToEnum/StringToEnum.cpp M /issm/trunk-jpl/src/wrappers/TriMesh/TriMesh.cpp M /issm/trunk-jpl/src/wrappers/TriMeshProcessRifts/TriMeshProcessRifts.cpp M /issm/trunk-jpl/src/wrappers/Xy2ll/Xy2ll.cpp

Export determination: 6.

Rationale: BUG: added \_python in WRAPPER

**Change #329** with diff file ISSM-20878-20879.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: do NOT call \_python code

**Change #330** with diff file ISSM-20879-20880.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: minor

**Change #331** with diff file ISSM-20880-20881.diff:

Function name:

M /issm/trunk-jpl/src/m/modules/InterpFromMeshToMesh2d.py

Export determination: 6.

Rationale: BUG: from comes before import

**Change #332** with diff file ISSM-20881-20882.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: no need to call [0] anymore

**Change #333** with diff file ISSM-20882-20883.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross.javascript

Export determination: 6.

Rationale: CHG: Changed prefix of Jenkins javascript file to simplify things.

**Change #334** with diff file ISSM-20883-20884.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bi

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/contourenvelope.js M /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/issm-binaries.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/pro  
M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test104.js M /issm/trunk-jpl/src/m/classes/model.js A /issm/trunk-jpl/src/m/extrusion/DepthAverage.js  
A /issm/trunk-jpl/src/m/extrusion/project2d.js A /issm/trunk-jpl/src/m/mesh/meshconvert.js  
Export determination: 6.  
Rationale: Add collapse to model, implement DepthAverage, Project2D

**Change #335** with diff file ISSM-20884-20885.diff:

Function name:

D /issm/trunk-jpl/src/m/mesh/meshconvert.js

Export determination: 6.

Rationale: DEL: Remove meshconvert (incomplete)

**Change #336** with diff file ISSM-20885-20886.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_javascript

Export determination: 6.

Rationale: CHG: Removing without wrappers option.

**Change #337** with diff file ISSM-20886-20887.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/waitonlock.py

Export determination: 6.

Rationale: BUG: fixing syntax error

**Change #338** with diff file ISSM-20887-20888.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/karma.conf.js M /issm/trunk-jpl/jenkins/javascript/karma/packa

M /issm/trunk-jpl/jenkins/javascript/karma/scripts/run-server.sh M /issm/trunk-

jpl/jenkins/javascript/karma/scripts/runscript.js

Export determination: 6.

Rationale: CHG: Modifications for Jenkins javascript tests.

**Change #339** with diff file ISSM-20888-20889.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Dakota/CreatePara

A /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.cpp A /issm/trunk-

jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-jpl/src/c/shared/io/io.h

Export determination: 6.

Rationale: CHG: centralize code that converts number to enums

**Change #340** with diff file ISSM-20889-20890.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConvers

M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-

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

M /issm/trunk-jpl/src/m/classes/SMBd18opdd.m M /issm/trunk-jpl/src/m/classes/SMBd18opdd.py

M /issm/trunk-jpl/src/m/classes/SMBforcing.js M /issm/trunk-jpl/src/m/classes/SMBforcing.m

M /issm/trunk-jpl/src/m/classes/SMBforcing.py M /issm/trunk-jpl/src/m/classes/SMBgemb.m

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

M /issm/trunk-jpl/src/m/classes/SMBhenning.m M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.m

M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.py M /issm/trunk-jpl/src/m/classes/SMBpdd.m

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

Export determination: 6.

Rationale: CHG: getting rid of Enums for SMB class

**Change #341** with diff file ISSM-20890-20891.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixed BinRead with new marshall files

**Change #342** with diff file ISSM-20891-20892.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/damage.py M /issm/trunk-jpl/src/m/classes/initialization.py

M /issm/trunk-jpl/src/m/classes/matrice.py M /issm/trunk-jpl/src/m/classes/slr.m

M /issm/trunk-jpl/src/m/classes/stressbalance.js M /issm/trunk-jpl/src/m/classes/stressbalance.py

Export determination: 6.

Rationale: CHG: reordering fields to have the same marshalls

**Change #343** with diff file ISSM-20892-20893.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: more refined BinRead

**Change #344** with diff file ISSM-20893-20894.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/slr.js M /issm/trunk-jpl/src/m/classes/slr.m

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

Export determination: 6.

Rationale: CHG: syncing deltathickness size

**Change #345** with diff file ISSM-20894-20895.diff:

Function name:

M /issm/trunk-jpl/src/m/Makefile.am M /issm/trunk-jpl/src/m/classes/clusters/generic.js

A /issm/trunk-jpl/src/m/io/writetofile.js

Export determination: 6.

Rationale: ADD (javascript): Adding writetofile.js for binary file writing. CHG (javascript): Adding error callback to generic.js.

**Change #346** with diff file ISSM-20895-20896.diff:

Function name:

A /issm/trunk-jpl/test/Archives/Archive101.js A /issm/trunk-jpl/test/Archives/Archive102.js  
A /issm/trunk-jpl/test/Archives/Archive103.js A /issm/trunk-jpl/test/Archives/Archive104.js  
A /issm/trunk-jpl/test/Archives/Archive105.js A /issm/trunk-jpl/test/Archives/Archive106.js  
A /issm/trunk-jpl/test/Archives/Archive107.js A /issm/trunk-jpl/test/Archives/Archive108.js  
A /issm/trunk-jpl/test/Archives/Archive109.js A /issm/trunk-jpl/test/Archives/Archive110.js  
A /issm/trunk-jpl/test/Archives/Archive1101.js A /issm/trunk-jpl/test/Archives/Archive1102.js  
A /issm/trunk-jpl/test/Archives/Archive1103.js A /issm/trunk-jpl/test/Archives/Archive1104.js  
A /issm/trunk-jpl/test/Archives/Archive1105.js A /issm/trunk-jpl/test/Archives/Archive1106.js  
A /issm/trunk-jpl/test/Archives/Archive1107.js A /issm/trunk-jpl/test/Archives/Archive1108.js  
A /issm/trunk-jpl/test/Archives/Archive1109.js A /issm/trunk-jpl/test/Archives/Archive111.js  
A /issm/trunk-jpl/test/Archives/Archive1110.js A /issm/trunk-jpl/test/Archives/Archive112.js  
A /issm/trunk-jpl/test/Archives/Archive113.js A /issm/trunk-jpl/test/Archives/Archive114.js  
A /issm/trunk-jpl/test/Archives/Archive115.js A /issm/trunk-jpl/test/Archives/Archive116.js  
A /issm/trunk-jpl/test/Archives/Archive117.js A /issm/trunk-jpl/test/Archives/Archive118.js  
A /issm/trunk-jpl/test/Archives/Archive119.js A /issm/trunk-jpl/test/Archives/Archive120.js

[illegible]

[illegible]



A /issm/trunk-jpl/test/Archives/Archive427.js A /issm/trunk-jpl/test/Archives/Archive428.js  
 A /issm/trunk-jpl/test/Archives/Archive429.js A /issm/trunk-jpl/test/Archives/Archive430.js  
 A /issm/trunk-jpl/test/Archives/Archive431.js A /issm/trunk-jpl/test/Archives/Archive432.js  
 A /issm/trunk-jpl/test/Archives/Archive433.js A /issm/trunk-jpl/test/Archives/Archive434.js  
 A /issm/trunk-jpl/test/Archives/Archive435.js A /issm/trunk-jpl/test/Archives/Archive436.js  
 A /issm/trunk-jpl/test/Archives/Archive437.js A /issm/trunk-jpl/test/Archives/Archive438.js  
 A /issm/trunk-jpl/test/Archives/Archive439.js A /issm/trunk-jpl/test/Archives/Archive450.js  
 A /issm/trunk-jpl/test/Archives/Archive455.js A /issm/trunk-jpl/test/Archives/Archive460.js  
 A /issm/trunk-jpl/test/Archives/Archive501.js A /issm/trunk-jpl/test/Archives/Archive502.js  
 A /issm/trunk-jpl/test/Archives/Archive503.js A /issm/trunk-jpl/test/Archives/Archive504.js  
 A /issm/trunk-jpl/test/Archives/Archive505.js A /issm/trunk-jpl/test/Archives/Archive506.js  
 A /issm/trunk-jpl/test/Archives/Archive507.js A /issm/trunk-jpl/test/Archives/Archive508.js  
 A /issm/trunk-jpl/test/Archives/Archive509.js A /issm/trunk-jpl/test/Archives/Archive510.js  
 A /issm/trunk-jpl/test/Archives/Archive511.js A /issm/trunk-jpl/test/Archives/Archive512.js  
 A /issm/trunk-jpl/test/Archives/Archive513.js A /issm/trunk-jpl/test/Archives/Archive514.js  
 A /issm/trunk-jpl/test/Archives/Archive515.js A /issm/trunk-jpl/test/Archives/Archive516.js  
 A /issm/trunk-jpl/test/Archives/Archive530.js A /issm/trunk-jpl/test/Archives/Archive531.js  
 A /issm/trunk-jpl/test/Archives/Archive601.js A /issm/trunk-jpl/test/Archives/Archive602.js  
 A /issm/trunk-jpl/test/Archives/Archive603.js A /issm/trunk-jpl/test/Archives/Archive604.js  
 A /issm/trunk-jpl/test/Archives/Archive605.js A /issm/trunk-jpl/test/Archives/Archive606.js  
 A /issm/trunk-jpl/test/Archives/Archive607.js A /issm/trunk-jpl/test/Archives/Archive608.js  
 A /issm/trunk-jpl/test/Archives/Archive609.js A /issm/trunk-jpl/test/Archives/Archive610.js  
 A /issm/trunk-jpl/test/Archives/Archive611.js A /issm/trunk-jpl/test/Archives/Archive613.js  
 A /issm/trunk-jpl/test/Archives/Archive701.js A /issm/trunk-jpl/test/Archives/Archive702.js  
 A /issm/trunk-jpl/test/Archives/Archive703.js A /issm/trunk-jpl/test/Archives/Archive801.js  
 A /issm/trunk-jpl/test/Archives/Archive802.js A /issm/trunk-jpl/test/Archives/Archive803.js  
 A /issm/trunk-jpl/test/Archives/Archive804.js A /issm/trunk-jpl/test/Archives/Archive805.js  
 A /issm/trunk-jpl/test/Archives/Archive806.js A /issm/trunk-jpl/test/Archives/Archive807.js  
 Export determination: 6.  
 Rationale: ADD: Add archives in JSON format

**Change #347** with diff file ISSM-20896-20897.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/SMBcomponents.m M /issm/trunk-jpl/src/m/classes/SMBcomponents.py  
 M /issm/trunk-jpl/src/m/classes/SMBd18opdd.m M /issm/trunk-jpl/src/m/classes/SMBd18opdd.py  
 M /issm/trunk-jpl/src/m/classes/SMBforcing.js M /issm/trunk-jpl/src/m/classes/SMBforcing.m  
 M /issm/trunk-jpl/src/m/classes/SMBforcing.py M /issm/trunk-jpl/src/m/classes/SMBgemb.m  
 M /issm/trunk-jpl/src/m/classes/SMBgradients.m M /issm/trunk-jpl/src/m/classes/SMBgradients.py  
 M /issm/trunk-jpl/src/m/classes/SMBhenning.m M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.m  
 M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.py M /issm/trunk-jpl/src/m/classes/SMBpdd.m  
 M /issm/trunk-jpl/src/m/classes/SMBpdd.py M /issm/trunk-jpl/src/m/classes/adinversion.m  
 M /issm/trunk-jpl/src/m/classes/adinversion.py M /issm/trunk-jpl/src/m/classes/balancethickness.js  
 M /issm/trunk-jpl/src/m/classes/balancethickness.m M /issm/trunk-jpl/src/m/classes/balancethickness.py

M /issm/trunk-jpl/src/m/classes/basalforcings.js M /issm/trunk-jpl/src/m/classes/basalforcings.m  
M /issm/trunk-jpl/src/m/classes/basalforcings.py M /issm/trunk-jpl/src/m/classes/calving.js  
M /issm/trunk-jpl/src/m/classes/calving.m M /issm/trunk-jpl/src/m/classes/calving.py  
M /issm/trunk-jpl/src/m/classes/calvingdev.m M /issm/trunk-jpl/src/m/classes/calvinglevermann.m  
M /issm/trunk-jpl/src/m/classes/calvinglevermann.py M /issm/trunk-jpl/src/m/classes/calvingminthickness.m  
M /issm/trunk-jpl/src/m/classes/constants.js M /issm/trunk-jpl/src/m/classes/constants.m  
M /issm/trunk-jpl/src/m/classes/constants.py M /issm/trunk-jpl/src/m/classes/friction.js  
M /issm/trunk-jpl/src/m/classes/friction.m M /issm/trunk-jpl/src/m/classes/frictionsommers.m  
M /issm/trunk-jpl/src/m/classes/frictionweertman.m M /issm/trunk-jpl/src/m/classes/frictionweertmantemp.m  
M /issm/trunk-jpl/src/m/classes/hydrologysommers.m M /issm/trunk-jpl/src/m/classes/initialization.js  
M /issm/trunk-jpl/src/m/classes/initialization.m M /issm/trunk-jpl/src/m/classes/initialization.py  
M /issm/trunk-jpl/src/m/classes/inversion.js 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/inversionvalidation.m  
M /issm/trunk-jpl/src/m/classes/linearbasalforcings.m M /issm/trunk-jpl/src/m/classes/linearbasalforcings.py  
M /issm/trunk-jpl/src/m/classes/m1qn3inversion.m M /issm/trunk-jpl/src/m/classes/m1qn3inversion.py  
M /issm/trunk-jpl/src/m/classes/masstransport.js M /issm/trunk-jpl/src/m/classes/masstransport.m  
M /issm/trunk-jpl/src/m/classes/masstransport.py M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.m  
M /issm/trunk-jpl/src/m/classes/plumbasalforcings.m M /issm/trunk-jpl/src/m/classes/snowpack.m  
M /issm/trunk-jpl/src/m/classes/stressbalance.js M /issm/trunk-jpl/src/m/classes/stressbalance.m  
M /issm/trunk-jpl/src/m/classes/stressbalance.py M /issm/trunk-jpl/src/m/classes/taoinversion.m  
M /issm/trunk-jpl/src/m/classes/taoinversion.py M /issm/trunk-jpl/src/m/classes/timestepping.js  
M /issm/trunk-jpl/src/m/classes/timestepping.m M /issm/trunk-jpl/src/m/classes/timestepping.py  
Export determination: 6.  
Rationale: CHG: do not use hardcoded yts, use the one from md.constants.yts

**Change #348** with diff file ISSM-20897-20898.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test293.m

Export determination: 6.

Rationale: CHG: hardcode yts specific to mismip+ tests

**Change #349** with diff file ISSM-20898-20899.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/WriteData.js M /issm/trunk-jpl/src/m/solve/WriteData.m

M /issm/trunk-jpl/src/m/solve/WriteData.py

Export determination: 6.

Rationale: CHG: hardcode yts specific to mismip+ tests

**Change #350** with diff file ISSM-20899-20900.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive293.nc

Export determination: 6.

Rationale: CHG: new archive now that md.constants.yts is used throughout  
(almost)

**Change #351** with diff file ISSM-20900-20901.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/loadresultsfrombuffer.js M /issm/trunk-jpl/src/m/solve/loadresultsfromdisk.m

M /issm/trunk-jpl/src/m/solve/loadresultsfromdisk.py M /issm/trunk-jpl/src/m/solve/parseresultsfrombuffer.

M /issm/trunk-jpl/src/m/solve/parseresultsfromdisk.m M /issm/trunk-jpl/src/m/solve/parseresultsfromdisk.p

Export determination: 6.

Rationale: CHG: yts is now consistent with md.constants.yts

**Change #352** with diff file ISSM-20901-20902.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive293.nc

Export determination: 6.

Rationale: CHG: new archive now that md.constants.yts is used throughout  
(almost)

**Change #353** with diff file ISSM-20902-20903.diff:

Function name:

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

M /issm/trunk-jpl/src/m/classes/SMBd18opdd.m M /issm/trunk-jpl/src/m/classes/SMBd18opdd.py

M /issm/trunk-jpl/src/m/classes/SMBforcing.js M /issm/trunk-jpl/src/m/classes/SMBforcing.m

M /issm/trunk-jpl/src/m/classes/SMBforcing.py M /issm/trunk-jpl/src/m/classes/SMBgemb.m

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

M /issm/trunk-jpl/src/m/classes/SMBhenning.m M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.m

M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.py M /issm/trunk-jpl/src/m/classes/SMBpdd.m

M /issm/trunk-jpl/src/m/classes/SMBpdd.py M /issm/trunk-jpl/src/m/classes/basalforcings.js

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

M /issm/trunk-jpl/src/m/classes/calving.js M /issm/trunk-jpl/src/m/classes/calving.m

M /issm/trunk-jpl/src/m/classes/calving.py M /issm/trunk-jpl/src/m/classes/calvinglevermann.m

M /issm/trunk-jpl/src/m/classes/calvinglevermann.py M /issm/trunk-jpl/src/m/classes/damage.js

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

M /issm/trunk-jpl/src/m/classes/friction.js M /issm/trunk-jpl/src/m/classes/friction.m

M /issm/trunk-jpl/src/m/classes/frictioncoulomb.m M /issm/trunk-jpl/src/m/classes/frictioncoulomb.py  
M /issm/trunk-jpl/src/m/classes/frictionhydro.m M /issm/trunk-jpl/src/m/classes/frictionsommers.m  
M /issm/trunk-jpl/src/m/classes/frictiontemp.m M /issm/trunk-jpl/src/m/classes/frictionwaterlayer.m  
M /issm/trunk-jpl/src/m/classes/frictionweertman.m M /issm/trunk-jpl/src/m/classes/frictionweertmantemp  
M /issm/trunk-jpl/src/m/classes/geometry.js M /issm/trunk-jpl/src/m/classes/geometry.m  
M /issm/trunk-jpl/src/m/classes/geometry.py M /issm/trunk-jpl/src/m/classes/hydrologydc.m  
M /issm/trunk-jpl/src/m/classes/hydrologydc.py M /issm/trunk-jpl/src/m/classes/hydrologyshreve.js  
M /issm/trunk-jpl/src/m/classes/hydrologyshreve.m M /issm/trunk-jpl/src/m/classes/hydrologyshreve.py  
M /issm/trunk-jpl/src/m/classes/hydrologysommers.m M /issm/trunk-jpl/src/m/classes/levelset.js  
M /issm/trunk-jpl/src/m/classes/levelset.m M /issm/trunk-jpl/src/m/classes/levelset.py  
M /issm/trunk-jpl/src/m/classes/linearbasalforcings.m M /issm/trunk-jpl/src/m/classes/linearbasalforcings.p  
M /issm/trunk-jpl/src/m/classes/masstransport.js M /issm/trunk-jpl/src/m/classes/masstransport.m  
M /issm/trunk-jpl/src/m/classes/masstransport.py M /issm/trunk-jpl/src/m/classes/matice.js  
M /issm/trunk-jpl/src/m/classes/matice.m M /issm/trunk-jpl/src/m/classes/matice.py  
M /issm/trunk-jpl/src/m/classes/misfit.m M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.m  
M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.py M /issm/trunk-jpl/src/m/classes/plumbasalforcings  
M /issm/trunk-jpl/src/m/classes/slr.js M /issm/trunk-jpl/src/m/classes/slr.m  
M /issm/trunk-jpl/src/m/classes/slr.py M /issm/trunk-jpl/src/m/classes/snowpack.m  
M /issm/trunk-jpl/src/m/classes/stressbalance.js M /issm/trunk-jpl/src/m/classes/stressbalance.m  
M /issm/trunk-jpl/src/m/classes/stressbalance.py M /issm/trunk-jpl/src/m/classes/thermal.js  
M /issm/trunk-jpl/src/m/classes/thermal.m M /issm/trunk-jpl/src/m/classes/thermal.py

Export determination: 6.

Rationale: CHG: added yts as an argument

**Change #354** with diff file ISSM-20903-20904.diff:

Function name:

M /issm/trunk-jpl/src/m/materials/paterson.js

Export determination: 6.

Rationale: CHG (JS): avoid memory leak.

**Change #355** with diff file ISSM-20904-20905.diff:

Function name:

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

Export determination: 6.

Rationale: FIX: Syntax error with math functions, incorrect exponentiation  
syntax ceil and log10 functions were called with 'Mat' instead of 'Math' 10n  
used instead of Math.pow

**Change #356** with diff file ISSM-20905-20906.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive243.nc

Export determination: 6.

Rationale: CHG: yts has changed for GEMB's yts

**Change #357** with diff file ISSM-20906-20907.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: bad initialization of loadingforce.

**Change #358** with diff file ISSM-20907-20908.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixing bamg for requiredvertices as ContourToMesh now returns an array

**Change #359** with diff file ISSM-20908-20909.diff:

Function name:

A /issm/trunk-jpl/test/Archives/Archive808.nc A /issm/trunk-jpl/test/NightlyRun/test808.m

Export determination: 6.

Rationale: NEW: calving min thickness test implemented

**Change #360** with diff file ISSM-20909-20910.diff:

Function name:

M /issm/trunk-jpl/src/m/modules/BamgConvertMesh.py M /issm/trunk-jpl/src/m/modules/BamgMesher.py

M /issm/trunk-jpl/src/m/modules/BamgTriangulate.py M /issm/trunk-jpl/src/m/modules/ContourToMesh.py

M /issm/trunk-jpl/src/m/modules/ContourToNodes.py M /issm/trunk-jpl/src/m/modules/ElementConnectivity.py

M /issm/trunk-jpl/src/m/modules/EnumToString.py M /issm/trunk-jpl/src/m/modules/InterpFromGridToMesh.py

M /issm/trunk-jpl/src/m/modules/InterpFromMeshToGrid.py M /issm/trunk-jpl/src/m/modules/InterpFromMeshToMesh2d.py

M /issm/trunk-jpl/src/m/modules/InterpFromMeshToMesh3d.py M /issm/trunk-jpl/src/m/modules/InterpFromMeshToMesh4d.py

M /issm/trunk-jpl/src/m/modules/IssmConfig.py M /issm/trunk-jpl/src/m/modules/MeshProfileIntersection.py

M /issm/trunk-jpl/src/m/modules/NodeConnectivity.py M /issm/trunk-jpl/src/m/modules/StringToEnum.py

M /issm/trunk-jpl/src/m/modules/TriMesh.py M /issm/trunk-jpl/src/m/modules/TriMeshProcessRifts.py  
Export determination: 6.  
Rationale: BUG:uniformisation of wrapper module and reverting to standard python behaviour

**Change #361** with diff file ISSM-20910-20911.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/classes/adinversion.py  
M /issm/trunk-jpl/src/m/classes/dependent.py M /issm/trunk-jpl/src/m/classes/model.py  
M /issm/trunk-jpl/src/m/classes/taoinversion.py M /issm/trunk-jpl/src/m/classes/toolkits.py  
M /issm/trunk-jpl/src/m/geometry/FlagElements.py M /issm/trunk-jpl/src/m/interp/SectionValues.py  
M /issm/trunk-jpl/src/m/mesh/bamg.py M /issm/trunk-jpl/src/m/mesh/rifts/meshprocessrifts.py  
M /issm/trunk-jpl/src/m/mesh/squaremesh.py M /issm/trunk-jpl/src/m/mesh/triangle.py  
M /issm/trunk-jpl/src/m/parameterization/contourenvelope.py M /issm/trunk-jpl/src/m/parameterization/setmask.py M /issm/trunk-jpl/src/m/solve/loadresultsfromdisk.py  
M /issm/trunk-jpl/src/m/solve/solve.py

Export determination: 6.

Rationale: CHG:fixing and/or harmonizing wrappers calls

**Change #362** with diff file ISSM-20911-20912.diff:

Function name:

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

Export determination: 6.

Rationale: CHG:fixing and/or harmonizing wrappers calls

**Change #363** with diff file ISSM-20912-20913.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/marshall.py

Export determination: 6.

Rationale: CHG: failsafe version

**Change #364** with diff file ISSM-20913-20914.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/toolkits.py M /issm/trunk-jpl/src/m/consistency/checkfield.py

M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.py

Export determination: 6.

Rationale: CHG: safer version of exec in python

**Change #365** with diff file ISSM-20914-20915.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/runme.py M /issm/trunk-jpl/test/NightlyRun/test808.m

Export determination: 6.

Rationale: CHG: relaxed tolerances and some clean up in runme.m

**Change #366** with diff file ISSM-20915-20916.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test808.m

Export determination: 6.

Rationale: CHG: Further relaxing test808 (MATLAB).

**Change #367** with diff file ISSM-20916-20917.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h

M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-jpl/src/m/classes/basalforcings.js

M /issm/trunk-jpl/src/m/classes/basalforcings.js M /issm/trunk-jpl/src/m/classes/basalforcings.m

M /issm/trunk-jpl/src/m/classes/basalforcings.py M /issm/trunk-jpl/src/m/classes/calving.js

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

M /issm/trunk-jpl/src/m/classes/calvingdev.m M /issm/trunk-jpl/src/m/classes/calvinglevermann.m

M /issm/trunk-jpl/src/m/classes/calvinglevermann.py M /issm/trunk-jpl/src/m/classes/calvingminthickness.m

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

M /issm/trunk-jpl/src/m/classes/mesh3dsurface.m M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.m

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

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

Export determination: 6.

Rationale: CHG: Hard-coded basal forcings and calving enums and updated Marshalling

**Change #368** with diff file ISSM-20917-20918.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-jpl/src/m/classes/hydrologydc.m M /issm/trunk-jpl/src/m/classes/hydrologydc.py M /issm/trunk-jpl/src/m/classes/hydrologyshreve.js M /issm/trunk-jpl/src/m/classes/hydrologyshreve.m M /issm/trunk-jpl/src/m/classes/hydrologyshreve.py M /issm/trunk-jpl/src/m/classes/hydrologysommers.m  
Export determination: 6.  
Rationale: CHG: Hard-coded hydrology enums and updated Marshalling

**Change #369** with diff file ISSM-20918-20919.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-jpl/src/m/classes/matdamageice.m M /issm/trunk-jpl/src/m/classes/matdamageice.py M /issm/trunk-jpl/src/m/classes/matestar.m M /issm/trunk-jpl/src/m/classes/matice.js M /issm/trunk-jpl/src/m/classes/matice.m M /issm/trunk-jpl/src/m/classes/matice.py  
Export determination: 6.  
Rationale: CHG: Hard-coded materials enums and updated Marshalling

**Change #370** with diff file ISSM-20919-20920.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/pairoptions.py M /issm/trunk-jpl/src/m/classes/slr.js  
Export determination: 6.  
Rationale: CHG: cleaning up, do not include 'enum' in WriteData

**Change #371** with diff file ISSM-20920-20921.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot\_unit.js M /issm/trunk-jpl/src/m/plot/plotdoc.js M /issm/trunk-jpl/src/m/plot/webgl.js  
Export determination: 6.  
Rationale: CHG (javascript): Removing zoom dependent control sensitivity, origin view panning is now off by default. viewpanning option added. Transient movie/backgroundcolor performance optimizations.

**Change #372** with diff file ISSM-20921-20922.diff:

Function name:



M /issm/trunk-jpl/src/m/plot/plot\_contour.py  
Export determination: 6.  
Rationale: NEW: adding default values to plot\_contour

**Change #373** with diff file ISSM-20922-20923.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/plot\_manager.py  
Export determination: 6.  
Rationale: CHG:adding ticklabel as a default option

**Change #374** with diff file ISSM-20923-20924.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/mesh3dsurface.m M /issm/trunk-jpl/src/m/classes/organizer.m  
Export determination: 6.  
Rationale: BUG: fixing Alex's mess

**Change #375** with diff file ISSM-20924-20925.diff:  
Function name:  
M /issm/trunk-jpl/src/m/io/fileptr.js  
Export determination: 6.  
Rationale: CHG: bigger buffer.

**Change #376** with diff file ISSM-20925-20926.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConvers  
M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-  
jpl/src/m/classes/flowequation.m M /issm/trunk-jpl/src/m/classes/flowequation.py  
Export determination: 6.  
Rationale: CHG: Hard-coded enums for flowequation.fe\_SSA/HO/FS and up-  
dated marshalling for flowequation.

**Change #377** with diff file ISSM-20926-20927.diff:  
Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js  
Export determination: 6.  
Rationale: CHG (JS): Updating call to parseresultsfrombuffer in generic.js.

**Change #378** with diff file ISSM-20927-20928.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/m/classes/flowequation.js  
M /issm/trunk-jpl/src/m/classes/groundingline.js M /issm/trunk-jpl/src/m/classes/groundingline.m  
M /issm/trunk-jpl/src/m/classes/groundingline.py  
Export determination: 6.  
Rationale: CHG: Added string enum for flowequation.js, and added string enum to groundingline.migration for marshalling

**Change #379** with diff file ISSM-20928-20929.diff:  
Function name:  
A /issm/trunk-jpl/src/m/solvers/mumpsnoneoptions.m  
Export determination: 6.  
Rationale: CHG: new solver.

**Change #380** with diff file ISSM-20929-20930.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/levelset.js  
Export determination: 6.  
Rationale: CHG (JS): reinit to 5 not propagated.

**Change #381** with diff file ISSM-20930-20931.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/matrice.js  
Export determination: 6.  
Rationale: CHG (JS): powers of 10 not translated correctly from Matlab to JS.

**Change #382** with diff file ISSM-20931-20932.diff:  
Function name:

M /issm/trunk-jpl/src/m/classes/model.js  
Export determination: 6.  
Rationale: CHG (JS): folds

**Change #383** with diff file ISSM-20932-20933.diff:  
Function name:  
M /issm/trunk-jpl/src/m/Makefile.am  
Export determination: 6.  
Rationale: CHG (JS): missing writetofile.js

**Change #384** with diff file ISSM-20933-20934.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test101.js  
Export determination: 6.  
Rationale: mini bug

**Change #385** with diff file ISSM-20934-20935.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test101.html  
Export determination: 6.  
Rationale: CHG: test101.html.

**Change #386** with diff file ISSM-20935-20936.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/FemModel.cpp M /issm/trunk-jpl/src/c/classes/FemModel.h  
Export determination: 6.  
Rationale: CHG (JS): bug fix for FemModel constructor.

**Change #387** with diff file ISSM-20936-20937.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/FemModel.cpp  
Export determination: 6.  
Rationale: CHG: using Eric's new InitFromFid function

**Change #388** with diff file ISSM-20937-20938.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: fixing list of files

**Change #389** with diff file ISSM-20938-20939.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: adding tag number in error message

**Change #390** with diff file ISSM-20939-20940.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/ProcessArguments.cpp M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinition

M /issm/trunk-jpl/src/c/shared/Enum/EnumToString.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringTo

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

A /issm/trunk-jpl/src/m/enum/IsRestartEnum.m

Export determination: 6.

Rationale: CHG: simplifying ProcessArguments

**Change #391** with diff file ISSM-20940-20941.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/m/classes/masstransport.js

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

Export determination: 6.

Rationale: CHG: Changed masstransport to use a String for marshalling instead of an integer

**Change #392** with diff file ISSM-20941-20942.diff:

Function name:

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

Export determination: 6.  
Rationale: BUG:fixing weird reshape in pressure init

**Change #393** with diff file ISSM-20942-20943.diff:

Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: reverting back

**Change #394** with diff file ISSM-20943-20944.diff:

Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh M /issm/trunk-jpl/src/c/classes/FemModel.cpp  
M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/c/classes/Params/Parameters.cpp  
M /issm/trunk-jpl/src/c/classes/Params/Parameters.h M /issm/trunk-jpl/src/c/modules/OutputResultsx/OutputResultsx.cpp  
Export determination: 6.  
Rationale: CHG: do not keep file pointer, reopen and append to outbin file

**Change #395** with diff file ISSM-20944-20945.diff:

Function name:  
M /issm/trunk-jpl/src/m/classes/initialization.py  
Export determination: 6.  
Rationale: BUG: reverting Basile's commit

**Change #396** with diff file ISSM-20945-20946.diff:

Function name:  
M /issm/trunk-jpl/src/c/classes/Materials/Matestar.h M /issm/trunk-jpl/src/c/shared/Elements/EstarComp  
M /issm/trunk-jpl/src/c/shared/FSanalytics/fsanalytics.cpp  
Export determination: 6.  
Rationale: CHG: ESTAR vorticity correction revision

**Change #397** with diff file ISSM-20946-20947.diff:

Function name:  
M /issm/trunk-jpl/test/NightlyRun/test460.m

Export determination: 6.  
Rationale: CHG: changed Earl to Estar

**Change #398** with diff file ISSM-20947-20948.diff:

Function name:

M /issm/trunk-jpl/configs/config-macosx64.sh M /issm/trunk-jpl/examples/IceflowModels/eismint.m  
M /issm/trunk-jpl/examples/IceflowModels/runme.m M /issm/trunk-jpl/examples/Inversion/CheatSheet.m  
M /issm/trunk-jpl/examples/Inversion/runme.m M /issm/trunk-jpl/examples/Pig/runme.m  
M /issm/trunk-jpl/externalpackages/petsc/install-3.7-greenplanet.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-hpc.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-linux64.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-macosx64.sh  
M /issm/trunk-jpl/externalpackages/vim/addons/vim/syntax/c.vim M /issm/trunk-jpl/jenkins/linux64\_ross\_se M /issm/trunk-jpl/scripts/ol M /issm/trunk-jpl/src/c/classes/IoModel.cpp  
M /issm/trunk-jpl/src/m/classes/matdamageice.m M /issm/trunk-jpl/src/m/classes/matdamageice.py  
M /issm/trunk-jpl/src/m/classes/matestar.m M /issm/trunk-jpl/src/m/classes/matrice.js  
M /issm/trunk-jpl/src/m/classes/matrice.m M /issm/trunk-jpl/src/m/classes/matrice.py  
M /issm/trunk-jpl/test/NightlyRun/test101.m M /issm/trunk-jpl/test/NightlyRun/test102.m  
M /issm/trunk-jpl/test/NightlyRun/test243.m

Export determination: 6.

Rationale: CHG: Changed md.materials.rheology\_law to use a String for marshalling instead of an integer

**Change #399** with diff file ISSM-20948-20949.diff:

Function name:

M /issm/trunk-jpl/configs/config-macosx64.sh

Export determination: 6.

Rationale: CHG: reverting configs/config-macosx64.sh

**Change #400** with diff file ISSM-20949-20950.diff:

Function name:

M /issm/trunk-jpl/examples/IceflowModels/eismint.m M /issm/trunk-jpl/examples/IceflowModels/runme.m

Export determination: 6.

Rationale: CHG: Reverting examples/IceflowModels

**Change #401** with diff file ISSM-20950-20951.diff:

Function name:  
M /issm/trunk-jpl/jenkins/linux64\_ross\_se  
Export determination: 6.  
Rationale: CHG: reverting jenkins/linux64\_ross\_se

**Change #402** with diff file ISSM-20951-20952.diff:

Function name:  
M /issm/trunk-jpl/examples/Inversion/runme.m M /issm/trunk-jpl/examples/Pig/runme.m  
Export determination: 6.  
Rationale: CHG: reverting examples/Inversion and examples/Pig

**Change #403** with diff file ISSM-20952-20953.diff:

Function name:  
M /issm/trunk-jpl/scripts/ol M /issm/trunk-jpl/test/NightlyRun/test101.m M  
/issm/trunk-jpl/test/NightlyRun/test102.m M /issm/trunk-jpl/test/NightlyRun/test243.m  
Export determination: 6.  
Rationale: CHG: Reverting scripts/ol and NightlyRun Tests

**Change #404** with diff file ISSM-20953-20954.diff:

Function name:  
M /issm/trunk-jpl/externalpackages/petsc/install-3.7-greenplanet.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-hpc.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-linux64.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.7-macosx64.sh  
M /issm/trunk-jpl/externalpackages/vim/addons/vim/syntax/c.vim  
Export determination: 6.  
Rationale: CHG: Reverting petsc external package and vim external package

**Change #405** with diff file ISSM-20954-20955.diff:

Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: temporary fix

**Change #406** with diff file ISSM-20955-20956.diff:

Function name:

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

M /issm/trunk-jpl/src/c/cores/transient\_core.cpp

Export determination: 6.

Rationale: CHG: do not checkpoint profiler, this messes up the tags and does not make sense

**Change #407** with diff file ISSM-20956-20957.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test125.m M /issm/trunk-jpl/test/NightlyRun/test125.py

Export determination: 6.

Rationale: CHG: fixing NR, outbin is now kept between runs

**Change #408** with diff file ISSM-20957-20958.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test126.m M /issm/trunk-jpl/test/NightlyRun/test126.py

Export determination: 6.

Rationale: CHG: fixing NR, outbin is now kept between runs

**Change #409** with diff file ISSM-20958-20959.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/transient\_core.cpp

Export determination: 6.

Rationale: CHG: do not start from starttime, start from provided time (either from ModelProcessor, which uses starttime, or from restart file)

**Change #410** with diff file ISSM-20959-20960.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/FemModel.cpp M /issm/trunk-jpl/src/c/cores/transient\_core.cpp

Export determination: 6.

Rationale: BUG: do not say you restart if file does not exist, and use recording\_frequency only after it is fetched in params



**Change #411** with diff file ISSM-20960-20961.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test125.py M /issm/trunk-jpl/test/NightlyRun/test126.py

Export determination: 6.

Rationale: CHG: fixed typo in python files

**Change #412** with diff file ISSM-20961-20962.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive460.nc

Export determination: 6.

Rationale: CHG: updated rigid body correction for ESTAR rheology

**Change #413** with diff file ISSM-20962-20963.diff:

Function name:

M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence\_nonlinear.cpp

Export determination: 6.

Rationale: CHG: maxiter is offset by 1

**Change #414** with diff file ISSM-20963-20964.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: Hopefully should remove the automake warnings.

**Change #415** with diff file ISSM-20964-20965.diff:

Function name:

M /issm/trunk-jpl/src/m/consistency/comparemodels.m

Export determination: 6.

Rationale: CHG: more flexible compare model (can now handle different classes for the same field)

**Change #416** with diff file ISSM-20965-20966.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp  
Export determination: 6.  
Rationale: DEL: removing old code not needed anymore

**Change #417** with diff file ISSM-20966-20967.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Materials/Matrice.cpp  
Export determination: 6.  
Rationale: BUG: effective strain rate was not calculated correctly as it was ignoring `eps_zz = -eps_xx`

**Change #418** with diff file ISSM-20967-20968.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/matestar.m M /issm/trunk-jpl/src/m/plot/colormaps/getcolormap.m  
Export determination: 6.  
Rationale: CHG: set materials ESTAR parameters to be consistent with Glen type flow relation

**Change #419** with diff file ISSM-20968-20969.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/colormaps/getcolormap.m  
Export determination: 6.  
Rationale: CHG: remove orange purple color map

**Change #420** with diff file ISSM-20969-20970.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/IoModel.cpp M /issm/trunk-jpl/src/m/classes/damage.js  
M /issm/trunk-jpl/src/m/classes/damage.m M /issm/trunk-jpl/src/m/classes/damage.py  
M /issm/trunk-jpl/src/m/classes/mesh2d.js M /issm/trunk-jpl/src/m/classes/mesh2d.m  
M /issm/trunk-jpl/src/m/classes/mesh2d.py  
Export determination: 6.  
Rationale: CHG: Changed `md.damage.elementinterp` so that it is marshalled as a String. Changed `md.mesh.domain_type` and `md.mesh.elementtype` so that they are marshalled as Strings. Also updated IoModel constructor to use FindConstant instead of FetchData for the changes to mesh2d.

**Change #421** with diff file ISSM-20970-20971.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/mesh2dvertical.m M /issm/trunk-jpl/src/m/classes/mesh3dprisms.js  
M /issm/trunk-jpl/src/m/classes/mesh3dprisms.m M /issm/trunk-jpl/src/m/classes/mesh3dprisms.py  
M /issm/trunk-jpl/src/m/classes/mesh3dsurface.js M /issm/trunk-jpl/src/m/classes/mesh3dsurface.m  
M /issm/trunk-jpl/src/m/classes/mesh3dsurface.py M /issm/trunk-jpl/src/m/classes/mesh3dtetras.m

Export determination: 6.

Rationale: CHG: Updated mesh2dvertical, mesh3dprisms, mesh3dsurface, and mesh3dtetras to use a String when marshalling md.mesh.domain\_type and md.mesh.elementtype

**Change #422** with diff file ISSM-20971-20972.diff:

Function name:

D /issm/trunk-jpl/examples/Inversion/CheatSheet.m

Export determination: 6.

Rationale: CHG: not needed anymore

**Change #423** with diff file ISSM-20972-20973.diff:

Function name:

M /issm/trunk-jpl/src/c/main/esmfbinders.cpp

Export determination: 6.

Rationale: CHG: fixing esmfbinders since we now use time to reset starttime

**Change #424** with diff file ISSM-20973-20974.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: trying to debug AD

**Change #425** with diff file ISSM-20974-20975.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test3119.m M /issm/trunk-jpl/test/NightlyRun/test3119.py

Export determination: 6.

Rationale: CHG: minor

**Change #426** with diff file ISSM-20975-20976.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: better way of testing files

**Change #427** with diff file ISSM-20976-20977.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: cannot FetchConstants in DeclareIndependents

**Change #428** with diff file ISSM-20977-20978.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: md.autodiff.independent\_object\_names is now a string array

**Change #429** with diff file ISSM-20978-20979.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: minor typo for AD

**Change #430** with diff file ISSM-20979-20980.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixed typo

**Change #431** with diff file ISSM-20980-20981.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/ModelProcessorx/ElementsAndVerticesPartitioning.cpp

Export determination: 6.

Rationale: CHG: better error message

**Change #432** with diff file ISSM-20981-20982.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/ad.m M /issm/trunk-jpl/test/NightlyRun/ad\_maxalloc.m

M /issm/trunk-jpl/test/NightlyRun/test3015.m M /issm/trunk-jpl/test/NightlyRun/test3015.py

M /issm/trunk-jpl/test/NightlyRun/test3019.m M /issm/trunk-jpl/test/NightlyRun/test3019.py

M /issm/trunk-jpl/test/NightlyRun/test3020.m M /issm/trunk-jpl/test/NightlyRun/test3020.py

Export determination: 6.

Rationale: CHG: no more Thickness as independent

**Change #433** with diff file ISSM-20982-20983.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/movingfront\_core.cpp

Export determination: 6.

Rationale: NEW: turning auto reinit on

**Change #434** with diff file ISSM-20983-20984.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/analyses/EnumToAnalysis.cpp

M /issm/trunk-jpl/src/c/analyses/LevelsetAnalysis.cpp D /issm/trunk-jpl/src/c/analyses/LsfReinitializationA

D /issm/trunk-jpl/src/c/analyses/LsfReinitializationAnalysis.h M /issm/trunk-

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

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp M /issm/trunk-jpl/src/m/enum/EnumDefinitions

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

Export determination: 6.

Rationale: DEL: removed old level set reinitialization code

**Change #435** with diff file ISSM-20984-20985.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/thermal.py  
Export determination: 6.  
Rationale: BUG: do not make spcvz a 3d vector in py

**Change #436** with diff file ISSM-20985-20986.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test3019.py  
Export determination: 6.  
Rationale: CHG: testing

**Change #437** with diff file ISSM-20986-20987.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test3008.m M /issm/trunk-jpl/test/NightlyRun/test3008.py  
M /issm/trunk-jpl/test/NightlyRun/test3101.m M /issm/trunk-jpl/test/NightlyRun/test3101.py  
M /issm/trunk-jpl/test/NightlyRun/test3108.m M /issm/trunk-jpl/test/NightlyRun/test3108.py  
Export determination: 6.  
Rationale: CHG: relaxing tolerances

**Change #438** with diff file ISSM-20987-20988.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/initialization.py  
Export determination: 6.  
Rationale: CHG: use[:,0] rather than reshape for pressure

**Change #439** with diff file ISSM-20988-20989.diff:  
Function name:  
M /issm/trunk-jpl/test/Par/SquareShelfConstrained.py  
Export determination: 6.  
Rationale: CHG: minor

**Change #440** with diff file ISSM-20989-20990.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/linux64\_ross.ad

Export determination: 6.  
Rationale: CHG: solving the same tests

**Change #441** with diff file ISSM-20990-20991.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/initialization.py  
Export determination: 6.  
Rationale: CHG: reverting ...

**Change #442** with diff file ISSM-20991-20992.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/initialization.py M /issm/trunk-jpl/src/m/classes/thermal.py  
Export determination: 6.  
Rationale: BUG: spctemperature might have 2 dim

**Change #443** with diff file ISSM-20992-20993.diff:  
Function name:  
M /issm/trunk-jpl/test/Par/RoundSheetShelf.py  
Export determination: 6.  
Rationale: BUG: fixed round mesh

**Change #444** with diff file ISSM-20993-20994.diff:  
Function name:  
M /issm/trunk-jpl/src/c/analyses/StressbalanceAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/StressbalanceSIAAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp M /issm/trunk-jpl/src/c/classes/Elements/PentaRef.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tetra.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h M /issm/trunk-jpl/src/m/classes/flowequation.js M /issm/trunk-jpl/src/m/classes/flowequation.m M /issm/trunk-jpl/src/m/classes/flowequation.py  
Export determination: 6.  
Rationale: CHG: Changed flowequation classes to use IoCodeToEnumElementEquation and IoCodeToEnumVertexEquation for StressbalanceAnalysis and Penta/Tetra/Tria Elements.

**Change #445** with diff file ISSM-20994-20995.diff:

Function name:

D /issm/trunk-jpl/examples/Pig/Help.m

Export determination: 6.

Rationale: CHG: not needed anymore:

**Change #446** with diff file ISSM-20995-20996.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js M /issm/trunk-jpl/src/m/solve/solve.js

Export determination: 6.

Rationale: CHG (JS): Adding in callbackerrorfunction and error handling for server side errors.

**Change #447** with diff file ISSM-20996-20997.diff:

Function name:

D /issm/trunk-jpl/test/Archives/Archive101.js A /issm/trunk-jpl/test/Archives/Archive101.json

(from /issm/trunk-jpl/test/Archives/Archive101.js:20995) D /issm/trunk-jpl/test/Archives/Archive102.js

A /issm/trunk-jpl/test/Archives/Archive102.json (from /issm/trunk-jpl/test/Archives/Archive102.js:20995)

D /issm/trunk-jpl/test/Archives/Archive103.js A /issm/trunk-jpl/test/Archives/Archive103.json

(from /issm/trunk-jpl/test/Archives/Archive103.js:20995) D /issm/trunk-jpl/test/Archives/Archive104.js

A /issm/trunk-jpl/test/Archives/Archive104.json (from /issm/trunk-jpl/test/Archives/Archive104.js:20995)

D /issm/trunk-jpl/test/Archives/Archive105.js A /issm/trunk-jpl/test/Archives/Archive105.json

(from /issm/trunk-jpl/test/Archives/Archive105.js:20995) D /issm/trunk-jpl/test/Archives/Archive106.js

A /issm/trunk-jpl/test/Archives/Archive106.json (from /issm/trunk-jpl/test/Archives/Archive106.js:20995)

D /issm/trunk-jpl/test/Archives/Archive107.js A /issm/trunk-jpl/test/Archives/Archive107.json

(from /issm/trunk-jpl/test/Archives/Archive107.js:20995) D /issm/trunk-jpl/test/Archives/Archive108.js

A /issm/trunk-jpl/test/Archives/Archive108.json (from /issm/trunk-jpl/test/Archives/Archive108.js:20995)

D /issm/trunk-jpl/test/Archives/Archive109.js A /issm/trunk-jpl/test/Archives/Archive109.json

(from /issm/trunk-jpl/test/Archives/Archive109.js:20995) D /issm/trunk-jpl/test/Archives/Archive110.js

A /issm/trunk-jpl/test/Archives/Archive110.json (from /issm/trunk-jpl/test/Archives/Archive110.js:20995)

D /issm/trunk-jpl/test/Archives/Archive1101.js A /issm/trunk-jpl/test/Archives/Archive1101.json

(from /issm/trunk-jpl/test/Archives/Archive1101.js:20995) D /issm/trunk-jpl/test/Archives/Archive1102.js

A /issm/trunk-jpl/test/Archives/Archive1102.json (from /issm/trunk-jpl/test/Archives/Archive1102.js:20995)

D /issm/trunk-jpl/test/Archives/Archive1103.js A /issm/trunk-jpl/test/Archives/Archive1103.json

(from /issm/trunk-jpl/test/Archives/Archive1103.js:20995) D /issm/trunk-jpl/test/Archives/Archive1104.js

A /issm/trunk-jpl/test/Archives/Archive1104.json (from /issm/trunk-jpl/test/Archives/Archive1104.js:20995)

D /issm/trunk-jpl/test/Archives/Archive1105.js A /issm/trunk-jpl/test/Archives/Archive1105.json

(from /issm/trunk-jpl/test/Archives/Archive1105.js:20995) D /issm/trunk-jpl/test/Archives/Archive1106.js

A /issm/trunk-jpl/test/Archives/Archive1106.json (from /issm/trunk-jpl/test/Archives/Archive1106.js:20995)

D /issm/trunk-jpl/test/Archives/Archive1107.js A /issm/trunk-jpl/test/Archives/Archive1107.json





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D /issm/trunk-jpl/test/Archives/Archive703.js A /issm/trunk-jpl/test/Archives/Archive703.json  
 (from /issm/trunk-jpl/test/Archives/Archive703.js:20995) D /issm/trunk-jpl/test/Archives/Archive801.js  
 A /issm/trunk-jpl/test/Archives/Archive801.json (from /issm/trunk-jpl/test/Archives/Archive801.js:20995)  
 D /issm/trunk-jpl/test/Archives/Archive802.js A /issm/trunk-jpl/test/Archives/Archive802.json  
 (from /issm/trunk-jpl/test/Archives/Archive802.js:20995) D /issm/trunk-jpl/test/Archives/Archive803.js  
 A /issm/trunk-jpl/test/Archives/Archive803.json (from /issm/trunk-jpl/test/Archives/Archive803.js:20995)  
 D /issm/trunk-jpl/test/Archives/Archive804.js A /issm/trunk-jpl/test/Archives/Archive804.json  
 (from /issm/trunk-jpl/test/Archives/Archive804.js:20995) D /issm/trunk-jpl/test/Archives/Archive805.js  
 A /issm/trunk-jpl/test/Archives/Archive805.json (from /issm/trunk-jpl/test/Archives/Archive805.js:20995)  
 D /issm/trunk-jpl/test/Archives/Archive806.js A /issm/trunk-jpl/test/Archives/Archive806.json  
 (from /issm/trunk-jpl/test/Archives/Archive806.js:20995) D /issm/trunk-jpl/test/Archives/Archive807.js  
 A /issm/trunk-jpl/test/Archives/Archive807.json (from /issm/trunk-jpl/test/Archives/Archive807.js:20995)  
 Export determination: 6.  
 Rationale: Change archive data to be json format

**Change #448** with diff file ISSM-20997-20998.diff:

Function name:

M /issm/trunk-jpl/externalpackages/gsl/install-javascript.sh

Export determination: 6.

Rationale: CHG: GSL for Javascript build needs STDC\_HEADERS macro definition.

**Change #449** with diff file ISSM-20998-20999.diff:

Function name:

M /issm/trunk-jpl/externalpackages/boost/install-1.55-linux.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-linux64.sh

Export determination: 6.

Rationale: CHG: Added a flag to specify C++ version to c++98. Needed for Dakota on Jenkins to be compatible with Boost version provided by Matlab.

**Change #450** with diff file ISSM-20999-21000.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SealevelriseAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Element.h  
 M /issm/trunk-jpl/src/c/classes/Elements/Element.h M /issm/trunk-jpl/src/c/classes/Elements/Penta.h  
 M /issm/trunk-jpl/src/c/classes/Elements/Seg.h M /issm/trunk-jpl/src/c/classes/Elements/Tetra.h  
 M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.h  
 M /issm/trunk-jpl/src/c/classes/FemModel.cpp M /issm/trunk-jpl/src/c/classes/FemModel.h  
 M /issm/trunk-jpl/src/c/cores/sealevelrise\_core.cpp M /issm/trunk-jpl/src/c/cores/sealevelrise\_core\_eustatic.c

M /issm/trunk-jpl/src/c/cores/sealevelrise\_core\_noneustatic.cpp M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToStringx.cpp  
M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp  
Export determination: 6.  
Rationale: CHG: added capabilities to compute absolute sea level and 3D crustal motion

**Change #451** with diff file ISSM-21000-21001.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/slr.js M /issm/trunk-jpl/src/m/classes/slr.m  
M /issm/trunk-jpl/src/m/classes/slr.py M /issm/trunk-jpl/src/m/enum/EnumDefinitions.js  
M /issm/trunk-jpl/src/m/enum/EnumDefinitions.py A /issm/trunk-jpl/src/m/enum/SealevelAbsoluteEnum.m  
A /issm/trunk-jpl/src/m/enum/SealevelEmotionEnum.m A /issm/trunk-jpl/src/m/enum/SealevelNmotionEnum.m  
A /issm/trunk-jpl/src/m/enum/SealevelUmotionEnum.m A /issm/trunk-jpl/src/m/enum/SealevelriseHElasticEnum.m  
A /issm/trunk-jpl/src/m/enum/SealevelriseUElasticEnum.m

Export determination: 6.

Rationale: CHG: added capabilities to compute absolute sea level and 3D crustal motion

**Change #452** with diff file ISSM-21001-21002.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2002.m M /issm/trunk-jpl/test/NightlyRun/test2002.py

Export determination: 6.

Rationale: CHG: minor changes to comply with horizontal displacement computation

**Change #453** with diff file ISSM-21002-21003.diff:

Function name:

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

Export determination: 6.

Rationale: FIX: Asserts were wrong.

**Change #454** with diff file ISSM-21003-21004.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_dakota

Export determination: 6.  
Rationale: CHG: Just realized Jenkins was using the wrong installation script for Linux Dakota.

**Change #455** with diff file ISSM-21004-21005.diff:  
Function name:  
A /issm/trunk-jpl/jenkins/macosex\_pine-island\_examples  
Export determination: 6.  
Rationale: ADD: macOS exmples Jenkins job.

**Change #456** with diff file ISSM-21005-21006.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test322.m M /issm/trunk-jpl/test/NightlyRun/test322.py  
Export determination: 6.  
Rationale: CHG: relaxing tolerances

**Change #457** with diff file ISSM-21006-21007.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh M /issm/trunk-jpl/jenkins/macosex\_pine-island\_examples  
Export determination: 6.  
Rationale: CHG: Implementing examples for Jenkins. Starting with Greenland.

**Change #458** with diff file ISSM-21007-21008.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: Changing directory name check to match.

**Change #459** with diff file ISSM-21008-21009.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.

Rationale: FIX: sed statement was not right.

**Change #460** with diff file ISSM-21009-21010.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Sed still not replacing variable. Trying once more.

**Change #461** with diff file ISSM-21010-21011.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Almost there...

**Change #462** with diff file ISSM-21011-21012.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Once more unto the breach...

**Change #463** with diff file ISSM-21012-21013.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: TEST: Testing something

**Change #464** with diff file ISSM-21013-21014.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Typo in sed

**Change #465** with diff file ISSM-21014-21015.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Once more

**Change #466** with diff file ISSM-21015-21016.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test3019.py

Export determination: 6.

Rationale: CHG: fixing test

**Change #467** with diff file ISSM-21016-21017.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: removing size check for now

**Change #468** with diff file ISSM-21017-21018.diff:

Function name:

D /issm/trunk-jpl/examples/MeltingSensitivity A /issm/trunk-jpl/examples/PigSensitivity  
(from /issm/trunk-jpl/examples/MeltingSensitivity:21016)

Export determination: 6.

Rationale: CHG: renaming pig test

**Change #469** with diff file ISSM-21018-21019.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test3019.py

Export determination: 6.

Rationale: CHG: testing

**Change #470** with diff file ISSM-21019-21020.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: This should do it! Greenland example Jenkins.

**Change #471** with diff file ISSM-21020-21021.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: Newline type issue.

**Change #472** with diff file ISSM-21021-21022.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: macOS has a shitty version of SED. Makes you jump through hoops to get a simple newline...

**Change #473** with diff file ISSM-21022-21023.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test3019.py  
Export determination: 6.  
Rationale: CHG: forgot 1 offset

**Change #474** with diff file ISSM-21023-21024.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test3019.py  
Export determination: 6.  
Rationale: CHG: removed prints

**Change #475** with diff file ISSM-21024-21025.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.

Rationale: CHG: Restoring normal sed style newline inserts. Will be using GNU sed from now on.

**Change #476** with diff file ISSM-21025-21026.diff:

Function name:

M /issm/trunk-jpl/jenkins/macosx\_pine-island\_dakota M /issm/trunk-jpl/test/NightlyRun/test234.m

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

Export determination: 6.

Rationale: CHG: removed 3 tests dakota and relaxed tolerances for macOS dakota

**Change #477** with diff file ISSM-21026-21027.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: One more try at fixing sed issue on MacOS.

**Change #478** with diff file ISSM-21027-21028.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Forgot to change BOTH sed lines!. Silly me!

**Change #479** with diff file ISSM-21028-21029.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/generic.js M /issm/trunk-jpl/src/m/solve/solve.js

Export determination: 6.

Rationale: CHG (JS): Adding slow connection request handling.

**Change #480** with diff file ISSM-21029-21030.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test224.m M /issm/trunk-jpl/test/NightlyRun/test224.py

Export determination: 6.

Rationale: CHG: relaxed tolerances

**Change #481** with diff file ISSM-21030-21031.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/oldclasses/surfaceforcings.m

Export determination: 6.

Rationale: BUG: fixed class name bug

**Change #482** with diff file ISSM-21031-21032.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: minor changes

**Change #483** with diff file ISSM-21033-21034.diff:

Function name:

D /issm/trunk-jpl/test/NightlyRun/ad.m D /issm/trunk-jpl/test/NightlyRun/ad\_maxalloc.m

D /issm/trunk-jpl/test/NightlyRun/android.m D /issm/trunk-jpl/test/NightlyRun/python\_test\_guidelines.txt

Export determination: 6.

Rationale: DEL: some clean up

**Change #484** with diff file ISSM-21034-21035.diff:

Function name:

A /issm/trunk-jpl/test/Archives/Archive250.nc A /issm/trunk-jpl/test/Archives/Archive251.nc

A /issm/trunk-jpl/test/Archives/Archive440.nc A /issm/trunk-jpl/test/NightlyRun/test250.m

A /issm/trunk-jpl/test/NightlyRun/test251.m A /issm/trunk-jpl/test/NightlyRun/test440.m

Export determination: 6.

Rationale: CHG: new dakota tests with linear partitioning

**Change #485** with diff file ISSM-21035-21036.diff:

Function name:

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

Export determination: 6.



Rationale: CHG: better error message

**Change #486** with diff file ISSM-21036-21037.diff:

Function name:

M /issm/trunk-jpl/jenkins/macosx\_pine-island\_dakota

Export determination: 6.

Rationale: CHG: remove some dakota test that depend on partitioning from mac

**Change #487** with diff file ISSM-21037-21038.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/test250.m M /issm/trunk-jpl/test/NightlyRun/test251.m

Export determination: 6.

Rationale: CHG: test stricter tolerances

**Change #488** with diff file ISSM-21038-21039.diff:

Function name:

M /issm/trunk-jpl/jenkins/windows

Export determination: 6.

Rationale: CHG: remove new dakota test from windows

**Change #489** with diff file ISSM-21039-21040.diff:

Function name:

M /issm/trunk-jpl/jenkins/macosx\_pine-island\_dakota

Export determination: 6.

Rationale: CHG: excluded wrong tests

**Change #490** with diff file ISSM-21040-21041.diff:

Function name:

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

Export determination: 6.

Rationale: FIX: Calling extrude on 2D meshes was not possible

**Change #491** with diff file ISSM-21041-21042.diff:

Function name:

M /issm/trunk-jpl/src/m/coordsystems/ll2xy.m M /issm/trunk-jpl/src/m/coordsystems/xy2ll.m

Export determination: 6.

Rationale: BUG: wrong conversion when x y are matrices

**Change #492** with diff file ISSM-21042-21043.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive808.nc M /issm/trunk-jpl/test/NightlyRun/test808.m

Export determination: 6.

Rationale: CHG: fixing non converging test

**Change #493** with diff file ISSM-21043-21044.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test808.m

Export determination: 6.

Rationale: CHG: relaxed tolerances

**Change #494** with diff file ISSM-21044-21045.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2002.m M /issm/trunk-jpl/test/NightlyRun/test2002.py

Export determination: 6.

Rationale: CHG: trying to fix python test

**Change #495** with diff file ISSM-21045-21046.diff:

Function name:

M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.py

Export determination: 6.

Rationale: BUG: elements should be made of ints

**Change #496** with diff file ISSM-21046-21047.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2002.m M /issm/trunk-jpl/test/NightlyRun/test2002.py

Export determination: 6.

Rationale: CHG: mminor

**Change #497** with diff file ISSM-21047-21048.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2002.py

Export determination: 6.

Rationale: temp

**Change #498** with diff file ISSM-21048-21049.diff:

Function name:

M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.py M /issm/trunk-jpl/test/NightlyRun/test2002.py

Export determination: 6.

Rationale: CHG: fixing test2002.py

**Change #499** with diff file ISSM-21049-21050.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Penta.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tetra.cpp  
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/Loads/Riftfront.cpp  
M /issm/trunk-jpl/src/c/classes/Misfit.h M /issm/trunk-jpl/src/c/modules/ModelProcessox/Control/CreateElements.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessox/Control/UpdateElementsAndMaterialsControl.cpp  
M /issm/trunk-jpl/src/c/modules/ModelProcessox/CreateOutputDefinitions.cpp  
M /issm/trunk-jpl/src/c/modules/OutputDefinitionsResponsex/OutputDefinitionsResponsex.cpp  
M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.cpp M /issm/trunk-jpl/src/c/shared/io/Marshalling/IoCodeConversions.h  
M /issm/trunk-jpl/src/m/classes/SMBcomponents.m M /issm/trunk-jpl/src/m/classes/SMBd18opdd.m  
M /issm/trunk-jpl/src/m/classes/SMBd18opdd.py M /issm/trunk-jpl/src/m/classes/SMBforcing.m  
M /issm/trunk-jpl/src/m/classes/SMBforcing.py M /issm/trunk-jpl/src/m/classes/SMBgradients.m  
M /issm/trunk-jpl/src/m/classes/SMBgradients.py M /issm/trunk-jpl/src/m/classes/SMBhenning.m  
M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.m M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.py  
M /issm/trunk-jpl/src/m/classes/SMBpdd.m M /issm/trunk-jpl/src/m/classes/SMBpdd.py  
M /issm/trunk-jpl/src/m/classes/adinversion.m M /issm/trunk-jpl/src/m/classes/adinversion.py  
M /issm/trunk-jpl/src/m/classes/autodiff.py M /issm/trunk-jpl/src/m/classes/balancethickness.m  
M /issm/trunk-jpl/src/m/classes/balancethickness.py M /issm/trunk-jpl/src/m/classes/basalforcings.m

M /issm/trunk-jpl/src/m/classes/basalforcings.py M /issm/trunk-jpl/src/m/classes/calving.m  
M /issm/trunk-jpl/src/m/classes/calving.py M /issm/trunk-jpl/src/m/classes/calvingdev.m  
M /issm/trunk-jpl/src/m/classes/calvinglevermann.m M /issm/trunk-jpl/src/m/classes/calvinglevermann.py  
M /issm/trunk-jpl/src/m/classes/calvingminthickness.m M /issm/trunk-jpl/src/m/classes/constants.py  
M /issm/trunk-jpl/src/m/classes/damage.m M /issm/trunk-jpl/src/m/classes/damage.py  
M /issm/trunk-jpl/src/m/classes/dependent.m M /issm/trunk-jpl/src/m/classes/dependent.py  
M /issm/trunk-jpl/src/m/classes/flaim.m M /issm/trunk-jpl/src/m/classes/flaim.py  
M /issm/trunk-jpl/src/m/classes/flowequation.m M /issm/trunk-jpl/src/m/classes/flowequation.py  
M /issm/trunk-jpl/src/m/classes/friction.m M /issm/trunk-jpl/src/m/classes/friction.py  
M /issm/trunk-jpl/src/m/classes/frictioncoulomb.m M /issm/trunk-jpl/src/m/classes/frictioncoulomb.py  
M /issm/trunk-jpl/src/m/classes/frictionhydro.m M /issm/trunk-jpl/src/m/classes/frictionsommers.m  
M /issm/trunk-jpl/src/m/classes/frictiontemp.m M /issm/trunk-jpl/src/m/classes/frictionwaterlayer.m  
M /issm/trunk-jpl/src/m/classes/frictionweertman.m M /issm/trunk-jpl/src/m/classes/frictionweertman.py  
M /issm/trunk-jpl/src/m/classes/frictionweertmantemp.m M /issm/trunk-jpl/src/m/classes/geometry.m  
M /issm/trunk-jpl/src/m/classes/geometry.py M /issm/trunk-jpl/src/m/classes/gia.m  
M /issm/trunk-jpl/src/m/classes/gia.py M /issm/trunk-jpl/src/m/classes/groundingline.py  
M /issm/trunk-jpl/src/m/classes/hydrologydc.m M /issm/trunk-jpl/src/m/classes/hydrologydc.py  
M /issm/trunk-jpl/src/m/classes/hydrologyshreve.m M /issm/trunk-jpl/src/m/classes/hydrologyshreve.py  
M /issm/trunk-jpl/src/m/classes/hydrologysommers.m M /issm/trunk-jpl/src/m/classes/independent.m  
M /issm/trunk-jpl/src/m/classes/independent.py M /issm/trunk-jpl/src/m/classes/initialization.m  
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M /issm/trunk-jpl/src/m/classes/inversion.py M /issm/trunk-jpl/src/m/classes/inversionvalidation.m  
M /issm/trunk-jpl/src/m/classes/levelset.m M /issm/trunk-jpl/src/m/classes/levelset.py  
M /issm/trunk-jpl/src/m/classes/linearbasalforcings.m M /issm/trunk-jpl/src/m/classes/linearbasalforcings.py  
M /issm/trunk-jpl/src/m/classes/m1qn3inversion.m M /issm/trunk-jpl/src/m/classes/m1qn3inversion.py  
M /issm/trunk-jpl/src/m/classes/mask.py M /issm/trunk-jpl/src/m/classes/maskpsl.py  
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M /issm/trunk-jpl/src/m/classes/matrice.py M /issm/trunk-jpl/src/m/classes/mesh2d.m  
M /issm/trunk-jpl/src/m/classes/mesh2d.py M /issm/trunk-jpl/src/m/classes/mesh2dvertical.m  
M /issm/trunk-jpl/src/m/classes/mesh3dprisms.py M /issm/trunk-jpl/src/m/classes/mesh3dsurface.m  
M /issm/trunk-jpl/src/m/classes/mesh3dsurface.py M /issm/trunk-jpl/src/m/classes/miscellaneous.py  
M /issm/trunk-jpl/src/m/classes/misfit.m M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.m  
M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.py M /issm/trunk-jpl/src/m/classes/nodalvalue.m  
M /issm/trunk-jpl/src/m/classes/outputdefinition.m M /issm/trunk-jpl/src/m/classes/outputdefinition.py  
M /issm/trunk-jpl/src/m/classes/plumebasalforcings.m M /issm/trunk-jpl/src/m/classes/private.py  
M /issm/trunk-jpl/src/m/classes/qmu.py M /issm/trunk-jpl/src/m/classes/results.py  
M /issm/trunk-jpl/src/m/classes/rifts.m M /issm/trunk-jpl/src/m/classes/rifts.py  
M /issm/trunk-jpl/src/m/classes/settings.py M /issm/trunk-jpl/src/m/classes/slr.m  
M /issm/trunk-jpl/src/m/classes/slr.py M /issm/trunk-jpl/src/m/classes/steadystate.m  
M /issm/trunk-jpl/src/m/classes/steadystate.py M /issm/trunk-jpl/src/m/classes/stressbalance.m  
M /issm/trunk-jpl/src/m/classes/stressbalance.py M /issm/trunk-jpl/src/m/classes/taoinversion.m  
M /issm/trunk-jpl/src/m/classes/taoinversion.py M /issm/trunk-jpl/src/m/classes/thermal.m

M /issm/trunk-jpl/src/m/classes/thermal.py M /issm/trunk-jpl/src/m/classes/timestepping.py  
M /issm/trunk-jpl/src/m/classes/toolkits.m M /issm/trunk-jpl/src/m/classes/toolkits.py  
M /issm/trunk-jpl/src/m/classes/transient.m M /issm/trunk-jpl/src/m/classes/transient.py  
M /issm/trunk-jpl/src/m/classes/verbose.py M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.m  
M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.py M /issm/trunk-  
jpl/src/m/inversions/marshallcostfunctions.m M /issm/trunk-jpl/src/m/inversions/marshallcostfunctions.py  
M /issm/trunk-jpl/src/m/solve/WriteData.py M /issm/trunk-jpl/src/m/solve/solve.m  
M /issm/trunk-jpl/src/m/solve/solve.py M /issm/trunk-jpl/src/wrappers/matlab/io/WriteMatlabData.cpp  
M /issm/trunk-jpl/src/wrappers/python/io/WritePythonData.cpp M /issm/trunk-  
jpl/test/NightlyRun/test101.m M /issm/trunk-jpl/test/NightlyRun/test101.py  
M /issm/trunk-jpl/test/NightlyRun/test102.m M /issm/trunk-jpl/test/NightlyRun/test102.py  
M /issm/trunk-jpl/test/NightlyRun/test103.m M /issm/trunk-jpl/test/NightlyRun/test103.py  
M /issm/trunk-jpl/test/NightlyRun/test104.m M /issm/trunk-jpl/test/NightlyRun/test104.py  
M /issm/trunk-jpl/test/NightlyRun/test105.m M /issm/trunk-jpl/test/NightlyRun/test105.py  
M /issm/trunk-jpl/test/NightlyRun/test106.m M /issm/trunk-jpl/test/NightlyRun/test106.py  
M /issm/trunk-jpl/test/NightlyRun/test107.m M /issm/trunk-jpl/test/NightlyRun/test107.py  
M /issm/trunk-jpl/test/NightlyRun/test108.m M /issm/trunk-jpl/test/NightlyRun/test108.py  
M /issm/trunk-jpl/test/NightlyRun/test109.m M /issm/trunk-jpl/test/NightlyRun/test109.py  
M /issm/trunk-jpl/test/NightlyRun/test110.m M /issm/trunk-jpl/test/NightlyRun/test110.py  
M /issm/trunk-jpl/test/NightlyRun/test1101.m M /issm/trunk-jpl/test/NightlyRun/test1101.py  
M /issm/trunk-jpl/test/NightlyRun/test1102.m M /issm/trunk-jpl/test/NightlyRun/test1102.py  
M /issm/trunk-jpl/test/NightlyRun/test1103.m M /issm/trunk-jpl/test/NightlyRun/test1103.py  
M /issm/trunk-jpl/test/NightlyRun/test1104.m M /issm/trunk-jpl/test/NightlyRun/test1104.py  
M /issm/trunk-jpl/test/NightlyRun/test1105.m M /issm/trunk-jpl/test/NightlyRun/test1105.py  
M /issm/trunk-jpl/test/NightlyRun/test1106.m M /issm/trunk-jpl/test/NightlyRun/test1106.py  
M /issm/trunk-jpl/test/NightlyRun/test1107.m M /issm/trunk-jpl/test/NightlyRun/test1107.py  
M /issm/trunk-jpl/test/NightlyRun/test1108.m M /issm/trunk-jpl/test/NightlyRun/test1108.py  
M /issm/trunk-jpl/test/NightlyRun/test1109.m M /issm/trunk-jpl/test/NightlyRun/test111.m  
M /issm/trunk-jpl/test/NightlyRun/test111.py M /issm/trunk-jpl/test/NightlyRun/test1110.m  
M /issm/trunk-jpl/test/NightlyRun/test112.m M /issm/trunk-jpl/test/NightlyRun/test112.py  
M /issm/trunk-jpl/test/NightlyRun/test113.m M /issm/trunk-jpl/test/NightlyRun/test113.py  
M /issm/trunk-jpl/test/NightlyRun/test114.m M /issm/trunk-jpl/test/NightlyRun/test114.py  
M /issm/trunk-jpl/test/NightlyRun/test115.m M /issm/trunk-jpl/test/NightlyRun/test115.py  
M /issm/trunk-jpl/test/NightlyRun/test116.m M /issm/trunk-jpl/test/NightlyRun/test116.py  
M /issm/trunk-jpl/test/NightlyRun/test120.m M /issm/trunk-jpl/test/NightlyRun/test120.py  
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/test1202.py  
M /issm/trunk-jpl/test/NightlyRun/test1203.m M /issm/trunk-jpl/test/NightlyRun/test1203.py  
M /issm/trunk-jpl/test/NightlyRun/test1204.m M /issm/trunk-jpl/test/NightlyRun/test1204.py  
M /issm/trunk-jpl/test/NightlyRun/test1205.m M /issm/trunk-jpl/test/NightlyRun/test1205.py  
M /issm/trunk-jpl/test/NightlyRun/test1206.m M /issm/trunk-jpl/test/NightlyRun/test1206.py  
M /issm/trunk-jpl/test/NightlyRun/test1207.m M /issm/trunk-jpl/test/NightlyRun/test1207.py  
M /issm/trunk-jpl/test/NightlyRun/test1208.m M /issm/trunk-jpl/test/NightlyRun/test1208.py  
M /issm/trunk-jpl/test/NightlyRun/test121.m M /issm/trunk-jpl/test/NightlyRun/test121.py  
M /issm/trunk-jpl/test/NightlyRun/test122.m M /issm/trunk-jpl/test/NightlyRun/test122.py  
M /issm/trunk-jpl/test/NightlyRun/test123.m M /issm/trunk-jpl/test/NightlyRun/test124.m

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[illegible]

M /issm/trunk-jpl/test/NightlyRun/test601.py M /issm/trunk-jpl/test/NightlyRun/test602.m  
M /issm/trunk-jpl/test/NightlyRun/test602.py M /issm/trunk-jpl/test/NightlyRun/test603.m  
M /issm/trunk-jpl/test/NightlyRun/test603.py M /issm/trunk-jpl/test/NightlyRun/test604.m  
M /issm/trunk-jpl/test/NightlyRun/test604.py M /issm/trunk-jpl/test/NightlyRun/test605.m  
M /issm/trunk-jpl/test/NightlyRun/test605.py M /issm/trunk-jpl/test/NightlyRun/test606.m  
M /issm/trunk-jpl/test/NightlyRun/test606.py M /issm/trunk-jpl/test/NightlyRun/test607.m  
M /issm/trunk-jpl/test/NightlyRun/test607.py M /issm/trunk-jpl/test/NightlyRun/test608.m  
M /issm/trunk-jpl/test/NightlyRun/test608.py M /issm/trunk-jpl/test/NightlyRun/test611.m  
M /issm/trunk-jpl/test/NightlyRun/test611.py M /issm/trunk-jpl/test/NightlyRun/test613.m  
M /issm/trunk-jpl/test/NightlyRun/test613.py M /issm/trunk-jpl/test/NightlyRun/test701.m  
M /issm/trunk-jpl/test/NightlyRun/test702.m M /issm/trunk-jpl/test/NightlyRun/test703.m  
M /issm/trunk-jpl/test/NightlyRun/test801.m M /issm/trunk-jpl/test/NightlyRun/test801.py  
M /issm/trunk-jpl/test/NightlyRun/test802.m M /issm/trunk-jpl/test/NightlyRun/test802.py  
M /issm/trunk-jpl/test/NightlyRun/test803.m M /issm/trunk-jpl/test/NightlyRun/test803.py  
M /issm/trunk-jpl/test/NightlyRun/test804.m M /issm/trunk-jpl/test/NightlyRun/test804.py  
M /issm/trunk-jpl/test/NightlyRun/test805.m M /issm/trunk-jpl/test/NightlyRun/test805.py  
M /issm/trunk-jpl/test/NightlyRun/test806.m M /issm/trunk-jpl/test/NightlyRun/test806.py  
M /issm/trunk-jpl/test/NightlyRun/test807.m M /issm/trunk-jpl/test/NightlyRun/test807.py  
M /issm/trunk-jpl/test/NightlyRun/test808.m

Export determination: 6.

Rationale: CHG: Replaced Enums with Strings in matlab and python. Updated corresponding cpp code.

**Change #500** with diff file ISSM-21050-21051.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/acenet.m M /issm/trunk-jpl/src/m/classes/clusters/castor.m  
M /issm/trunk-jpl/src/m/classes/clusters/cloud.m M /issm/trunk-jpl/src/m/classes/clusters/cosmos.m  
M /issm/trunk-jpl/src/m/classes/clusters/cyclone.py M /issm/trunk-jpl/src/m/classes/clusters/discover.m  
M /issm/trunk-jpl/src/m/classes/clusters/gemini.m M /issm/trunk-jpl/src/m/classes/clusters/generic.m  
M /issm/trunk-jpl/src/m/classes/clusters/generic.py M /issm/trunk-jpl/src/m/classes/clusters/generic\_static.  
M /issm/trunk-jpl/src/m/classes/clusters/greenplanet.m M /issm/trunk-jpl/src/m/classes/clusters/hexagon.p  
M /issm/trunk-jpl/src/m/classes/clusters/hpc.m M /issm/trunk-jpl/src/m/classes/clusters/lonestar.m  
M /issm/trunk-jpl/src/m/classes/clusters/pfe.m M /issm/trunk-jpl/src/m/classes/clusters/pfe.py  
M /issm/trunk-jpl/src/m/classes/clusters/pollux.m M /issm/trunk-jpl/src/m/classes/clusters/raijin.m  
M /issm/trunk-jpl/src/m/classes/clusters/vilje.m M /issm/trunk-jpl/src/m/classes/clusters/vilje.py

Export determination: 6.

Rationale: BUG: Fixed clusters for updated matlab and python code

**Change #501** with diff file ISSM-21051-21052.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test101.html M /issm/trunk-jpl/test/NightlyRun/test101.js  
M /issm/trunk-jpl/test/NightlyRun/test102.js M /issm/trunk-jpl/test/NightlyRun/test103.js  
M /issm/trunk-jpl/test/NightlyRun/test104.js M /issm/trunk-jpl/test/NightlyRun/test105.js  
M /issm/trunk-jpl/test/NightlyRun/test106.js M /issm/trunk-jpl/test/NightlyRun/test107.js  
M /issm/trunk-jpl/test/NightlyRun/test108.js M /issm/trunk-jpl/test/NightlyRun/test109.js  
M /issm/trunk-jpl/test/NightlyRun/test111.js M /issm/trunk-jpl/test/NightlyRun/test112.js  
M /issm/trunk-jpl/test/NightlyRun/test113.js M /issm/trunk-jpl/test/NightlyRun/test114.js  
M /issm/trunk-jpl/test/NightlyRun/test115.js M /issm/trunk-jpl/test/NightlyRun/test2002.m  
M /issm/trunk-jpl/test/NightlyRun/test201.js M /issm/trunk-jpl/test/NightlyRun/test202.js  
M /issm/trunk-jpl/test/NightlyRun/test203.js M /issm/trunk-jpl/test/NightlyRun/test204.js  
M /issm/trunk-jpl/test/NightlyRun/test205.js M /issm/trunk-jpl/test/NightlyRun/test206.js  
M /issm/trunk-jpl/test/NightlyRun/test207.js M /issm/trunk-jpl/test/NightlyRun/test209.js  
M /issm/trunk-jpl/test/NightlyRun/test250.m M /issm/trunk-jpl/test/NightlyRun/test251.m  
M /issm/trunk-jpl/test/NightlyRun/test270.py M /issm/trunk-jpl/test/NightlyRun/test272.py  
M /issm/trunk-jpl/test/NightlyRun/test273.py M /issm/trunk-jpl/test/NightlyRun/test274.py  
M /issm/trunk-jpl/test/NightlyRun/test4001.m M /issm/trunk-jpl/test/NightlyRun/test440.m  
Export determination: 6.  
Rationale: BUG: no more strings for solve

**Change #502** with diff file ISSM-21052-21053.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test270.py M /issm/trunk-jpl/test/NightlyRun/test272.py  
M /issm/trunk-jpl/test/NightlyRun/test273.py M /issm/trunk-jpl/test/NightlyRun/test274.py  
Export determination: 6.  
Rationale: BUG: Fixed python tests 270,272,273,274

**Change #503** with diff file ISSM-21053-21054.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/solve.m M /issm/trunk-jpl/src/m/solve/solve.py  
Export determination: 6.  
Rationale: BUG: Added GiaSolution string for solve (for test2000s)

**Change #504** with diff file ISSM-21054-21055.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/solve.m M /issm/trunk-jpl/src/m/solve/solve.py  
Export determination: 6.  
Rationale: BUG: Added support for SealevelriseSolution for test2002

**Change #505** with diff file ISSM-21055-21056.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/solve.py

Export determination: 6.

Rationale: BUG: Fixed SealevelriseSolution for python

**Change #506** with diff file ISSM-21056-21057.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/solve.m M /issm/trunk-jpl/src/m/solve/solve.py  
M /issm/trunk-jpl/test/NightlyRun/test101.m M /issm/trunk-jpl/test/NightlyRun/test101.py  
M /issm/trunk-jpl/test/NightlyRun/test102.m M /issm/trunk-jpl/test/NightlyRun/test102.py  
M /issm/trunk-jpl/test/NightlyRun/test103.py M /issm/trunk-jpl/test/NightlyRun/test104.m  
M /issm/trunk-jpl/test/NightlyRun/test104.py M /issm/trunk-jpl/test/NightlyRun/test105.m  
M /issm/trunk-jpl/test/NightlyRun/test105.py M /issm/trunk-jpl/test/NightlyRun/test106.m  
M /issm/trunk-jpl/test/NightlyRun/test106.py M /issm/trunk-jpl/test/NightlyRun/test107.m  
M /issm/trunk-jpl/test/NightlyRun/test107.py M /issm/trunk-jpl/test/NightlyRun/test108.m  
M /issm/trunk-jpl/test/NightlyRun/test108.py M /issm/trunk-jpl/test/NightlyRun/test109.m  
M /issm/trunk-jpl/test/NightlyRun/test109.py M /issm/trunk-jpl/test/NightlyRun/test110.m  
M /issm/trunk-jpl/test/NightlyRun/test110.py M /issm/trunk-jpl/test/NightlyRun/test1101.m  
M /issm/trunk-jpl/test/NightlyRun/test1101.py M /issm/trunk-jpl/test/NightlyRun/test1102.m  
M /issm/trunk-jpl/test/NightlyRun/test1102.py M /issm/trunk-jpl/test/NightlyRun/test1103.m  
M /issm/trunk-jpl/test/NightlyRun/test1103.py M /issm/trunk-jpl/test/NightlyRun/test1104.m  
M /issm/trunk-jpl/test/NightlyRun/test1104.py M /issm/trunk-jpl/test/NightlyRun/test1105.m  
M /issm/trunk-jpl/test/NightlyRun/test1105.py M /issm/trunk-jpl/test/NightlyRun/test1106.m  
M /issm/trunk-jpl/test/NightlyRun/test1106.py M /issm/trunk-jpl/test/NightlyRun/test1107.m  
M /issm/trunk-jpl/test/NightlyRun/test1107.py M /issm/trunk-jpl/test/NightlyRun/test1108.m  
M /issm/trunk-jpl/test/NightlyRun/test1108.py M /issm/trunk-jpl/test/NightlyRun/test1109.m  
M /issm/trunk-jpl/test/NightlyRun/test111.m M /issm/trunk-jpl/test/NightlyRun/test111.py  
M /issm/trunk-jpl/test/NightlyRun/test1110.m M /issm/trunk-jpl/test/NightlyRun/test112.m  
M /issm/trunk-jpl/test/NightlyRun/test112.py M /issm/trunk-jpl/test/NightlyRun/test113.m  
M /issm/trunk-jpl/test/NightlyRun/test113.py M /issm/trunk-jpl/test/NightlyRun/test114.m  
M /issm/trunk-jpl/test/NightlyRun/test114.py M /issm/trunk-jpl/test/NightlyRun/test115.m  
M /issm/trunk-jpl/test/NightlyRun/test115.py M /issm/trunk-jpl/test/NightlyRun/test116.m  
M /issm/trunk-jpl/test/NightlyRun/test116.py M /issm/trunk-jpl/test/NightlyRun/test120.m  
M /issm/trunk-jpl/test/NightlyRun/test120.py 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/test1202.py M /issm/trunk-jpl/test/NightlyRun/test1203.m  
M /issm/trunk-jpl/test/NightlyRun/test1203.py M /issm/trunk-jpl/test/NightlyRun/test1204.m  
M /issm/trunk-jpl/test/NightlyRun/test1204.py M /issm/trunk-jpl/test/NightlyRun/test1205.m  
M /issm/trunk-jpl/test/NightlyRun/test1205.py M /issm/trunk-jpl/test/NightlyRun/test1206.m  
M /issm/trunk-jpl/test/NightlyRun/test1206.py M /issm/trunk-jpl/test/NightlyRun/test1207.m  
M /issm/trunk-jpl/test/NightlyRun/test1207.py M /issm/trunk-jpl/test/NightlyRun/test1208.m  
M /issm/trunk-jpl/test/NightlyRun/test1208.py M /issm/trunk-jpl/test/NightlyRun/test121.m

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M /issm/trunk-jpl/test/NightlyRun/test513.py M /issm/trunk-jpl/test/NightlyRun/test515.m  
M /issm/trunk-jpl/test/NightlyRun/test515.py M /issm/trunk-jpl/test/NightlyRun/test516.m  
M /issm/trunk-jpl/test/NightlyRun/test516.py M /issm/trunk-jpl/test/NightlyRun/test530.m  
M /issm/trunk-jpl/test/NightlyRun/test530.py M /issm/trunk-jpl/test/NightlyRun/test531.m  
M /issm/trunk-jpl/test/NightlyRun/test531.py M /issm/trunk-jpl/test/NightlyRun/test601.m  
M /issm/trunk-jpl/test/NightlyRun/test601.py M /issm/trunk-jpl/test/NightlyRun/test602.m  
M /issm/trunk-jpl/test/NightlyRun/test602.py M /issm/trunk-jpl/test/NightlyRun/test603.m  
M /issm/trunk-jpl/test/NightlyRun/test603.py M /issm/trunk-jpl/test/NightlyRun/test604.m  
M /issm/trunk-jpl/test/NightlyRun/test604.py M /issm/trunk-jpl/test/NightlyRun/test605.m  
M /issm/trunk-jpl/test/NightlyRun/test605.py M /issm/trunk-jpl/test/NightlyRun/test606.m  
M /issm/trunk-jpl/test/NightlyRun/test606.py M /issm/trunk-jpl/test/NightlyRun/test607.m  
M /issm/trunk-jpl/test/NightlyRun/test607.py M /issm/trunk-jpl/test/NightlyRun/test608.m  
M /issm/trunk-jpl/test/NightlyRun/test608.py M /issm/trunk-jpl/test/NightlyRun/test611.m  
M /issm/trunk-jpl/test/NightlyRun/test611.py M /issm/trunk-jpl/test/NightlyRun/test613.m  
M /issm/trunk-jpl/test/NightlyRun/test613.py M /issm/trunk-jpl/test/NightlyRun/test701.m  
M /issm/trunk-jpl/test/NightlyRun/test702.m M /issm/trunk-jpl/test/NightlyRun/test703.m  
M /issm/trunk-jpl/test/NightlyRun/test801.m M /issm/trunk-jpl/test/NightlyRun/test801.py  
M /issm/trunk-jpl/test/NightlyRun/test802.m M /issm/trunk-jpl/test/NightlyRun/test802.py  
M /issm/trunk-jpl/test/NightlyRun/test803.m M /issm/trunk-jpl/test/NightlyRun/test803.py  
M /issm/trunk-jpl/test/NightlyRun/test804.m M /issm/trunk-jpl/test/NightlyRun/test804.py  
M /issm/trunk-jpl/test/NightlyRun/test805.m M /issm/trunk-jpl/test/NightlyRun/test805.py  
M /issm/trunk-jpl/test/NightlyRun/test806.m M /issm/trunk-jpl/test/NightlyRun/test806.py  
M /issm/trunk-jpl/test/NightlyRun/test807.m M /issm/trunk-jpl/test/NightlyRun/test807.py  
M /issm/trunk-jpl/test/NightlyRun/test808.m

Export determination: 6.

Rationale: CHG: do not request solution in solution string

**Change #507** with diff file ISSM-21057-21058.diff:

Function name:

M /issm/trunk-jpl/examples/Greenland/CheatSheet.m M /issm/trunk-jpl/examples/Greenland/runme.m  
M /issm/trunk-jpl/examples/ISMIP/CheatyRunme.m M /issm/trunk-jpl/examples/IceBridge/runme.m  
M /issm/trunk-jpl/examples/IceflowModels/eismint.m M /issm/trunk-jpl/examples/IceflowModels/runme.m  
M /issm/trunk-jpl/examples/Inversion/runme.m M /issm/trunk-jpl/examples/Jakobshavn/runme.m  
M /issm/trunk-jpl/examples/Pig/runme.m M /issm/trunk-jpl/examples/PigSensitivity/Help.m  
M /issm/trunk-jpl/examples/PigSensitivity/runme.m M /issm/trunk-jpl/examples/SquareIceShelf/README  
M /issm/trunk-jpl/examples/SquareIceShelf/runme.m M /issm/trunk-jpl/examples/UncertaintyQuantification

Export determination: 6.

Rationale: BUG: no more Enums in solve command

**Change #508** with diff file ISSM-21058-21059.diff:

Function name:  
M /issm/trunk-jpl/src/m/solve/solve.m M /issm/trunk-jpl/src/m/solve/solve.py  
Export determination: 6.  
Rationale: CHG: renaming some solutions

**Change #509** with diff file ISSM-21059-21060.diff:

Function name:  
M /issm/trunk-jpl/src/m/solve/solve.py  
Export determination: 6.  
Rationale: BUG: forgot : at the enf of if

**Change #510** with diff file ISSM-21060-21061.diff:

Function name:  
M /issm/trunk-jpl/test/NightlyRun/test101.py M /issm/trunk-jpl/test/NightlyRun/test102.py  
M /issm/trunk-jpl/test/NightlyRun/test103.py M /issm/trunk-jpl/test/NightlyRun/test104.py  
M /issm/trunk-jpl/test/NightlyRun/test105.py M /issm/trunk-jpl/test/NightlyRun/test106.py  
M /issm/trunk-jpl/test/NightlyRun/test107.py M /issm/trunk-jpl/test/NightlyRun/test108.py  
M /issm/trunk-jpl/test/NightlyRun/test109.py M /issm/trunk-jpl/test/NightlyRun/test110.py  
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  
M /issm/trunk-jpl/test/NightlyRun/test111.py M /issm/trunk-jpl/test/NightlyRun/test112.py  
M /issm/trunk-jpl/test/NightlyRun/test113.py M /issm/trunk-jpl/test/NightlyRun/test114.py  
M /issm/trunk-jpl/test/NightlyRun/test115.py M /issm/trunk-jpl/test/NightlyRun/test116.py  
M /issm/trunk-jpl/test/NightlyRun/test120.py M /issm/trunk-jpl/test/NightlyRun/test1201.py  
M /issm/trunk-jpl/test/NightlyRun/test1202.py M /issm/trunk-jpl/test/NightlyRun/test1203.py  
M /issm/trunk-jpl/test/NightlyRun/test1204.py M /issm/trunk-jpl/test/NightlyRun/test1205.py  
M /issm/trunk-jpl/test/NightlyRun/test1206.py M /issm/trunk-jpl/test/NightlyRun/test1207.py  
M /issm/trunk-jpl/test/NightlyRun/test1208.py M /issm/trunk-jpl/test/NightlyRun/test121.py  
M /issm/trunk-jpl/test/NightlyRun/test122.py M /issm/trunk-jpl/test/NightlyRun/test125.py  
M /issm/trunk-jpl/test/NightlyRun/test126.py M /issm/trunk-jpl/test/NightlyRun/test1301.py  
M /issm/trunk-jpl/test/NightlyRun/test1302.py M /issm/trunk-jpl/test/NightlyRun/test1303.py  
M /issm/trunk-jpl/test/NightlyRun/test1304.py M /issm/trunk-jpl/test/NightlyRun/test1501.py  
M /issm/trunk-jpl/test/NightlyRun/test1502.py M /issm/trunk-jpl/test/NightlyRun/test1601.py  
M /issm/trunk-jpl/test/NightlyRun/test1602.py M /issm/trunk-jpl/test/NightlyRun/test2001.py  
M /issm/trunk-jpl/test/NightlyRun/test2002.py M /issm/trunk-jpl/test/NightlyRun/test201.py  
M /issm/trunk-jpl/test/NightlyRun/test202.py M /issm/trunk-jpl/test/NightlyRun/test203.py  
M /issm/trunk-jpl/test/NightlyRun/test204.py M /issm/trunk-jpl/test/NightlyRun/test205.py  
M /issm/trunk-jpl/test/NightlyRun/test206.py M /issm/trunk-jpl/test/NightlyRun/test207.py

[illegible]

M /issm/trunk-jpl/test/NightlyRun/test332.py M /issm/trunk-jpl/test/NightlyRun/test333.py  
M /issm/trunk-jpl/test/NightlyRun/test336.py M /issm/trunk-jpl/test/NightlyRun/test337.py  
M /issm/trunk-jpl/test/NightlyRun/test338.py M /issm/trunk-jpl/test/NightlyRun/test339.py  
M /issm/trunk-jpl/test/NightlyRun/test341.py M /issm/trunk-jpl/test/NightlyRun/test401.py  
M /issm/trunk-jpl/test/NightlyRun/test402.py M /issm/trunk-jpl/test/NightlyRun/test403.py  
M /issm/trunk-jpl/test/NightlyRun/test404.py M /issm/trunk-jpl/test/NightlyRun/test405.py  
M /issm/trunk-jpl/test/NightlyRun/test406.py M /issm/trunk-jpl/test/NightlyRun/test407.py  
M /issm/trunk-jpl/test/NightlyRun/test408.py M /issm/trunk-jpl/test/NightlyRun/test409.py  
M /issm/trunk-jpl/test/NightlyRun/test410.py M /issm/trunk-jpl/test/NightlyRun/test411.py  
M /issm/trunk-jpl/test/NightlyRun/test415.py M /issm/trunk-jpl/test/NightlyRun/test416.py  
M /issm/trunk-jpl/test/NightlyRun/test419.py M /issm/trunk-jpl/test/NightlyRun/test421.py  
M /issm/trunk-jpl/test/NightlyRun/test422.py M /issm/trunk-jpl/test/NightlyRun/test423.py  
M /issm/trunk-jpl/test/NightlyRun/test424.py M /issm/trunk-jpl/test/NightlyRun/test425.py  
M /issm/trunk-jpl/test/NightlyRun/test426.py M /issm/trunk-jpl/test/NightlyRun/test427.py  
M /issm/trunk-jpl/test/NightlyRun/test428.py M /issm/trunk-jpl/test/NightlyRun/test429.py  
M /issm/trunk-jpl/test/NightlyRun/test431.py M /issm/trunk-jpl/test/NightlyRun/test432.py  
M /issm/trunk-jpl/test/NightlyRun/test433.py M /issm/trunk-jpl/test/NightlyRun/test434.py  
M /issm/trunk-jpl/test/NightlyRun/test450.py M /issm/trunk-jpl/test/NightlyRun/test455.py  
M /issm/trunk-jpl/test/NightlyRun/test501.py M /issm/trunk-jpl/test/NightlyRun/test502.py  
M /issm/trunk-jpl/test/NightlyRun/test503.py M /issm/trunk-jpl/test/NightlyRun/test504.py  
M /issm/trunk-jpl/test/NightlyRun/test505.py M /issm/trunk-jpl/test/NightlyRun/test506.py  
M /issm/trunk-jpl/test/NightlyRun/test507.py M /issm/trunk-jpl/test/NightlyRun/test508.py  
M /issm/trunk-jpl/test/NightlyRun/test509.py M /issm/trunk-jpl/test/NightlyRun/test510.py  
M /issm/trunk-jpl/test/NightlyRun/test511.py M /issm/trunk-jpl/test/NightlyRun/test512.py  
M /issm/trunk-jpl/test/NightlyRun/test513.py M /issm/trunk-jpl/test/NightlyRun/test515.py  
M /issm/trunk-jpl/test/NightlyRun/test516.py M /issm/trunk-jpl/test/NightlyRun/test530.py  
M /issm/trunk-jpl/test/NightlyRun/test531.py M /issm/trunk-jpl/test/NightlyRun/test601.py  
M /issm/trunk-jpl/test/NightlyRun/test602.py M /issm/trunk-jpl/test/NightlyRun/test603.py  
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M /issm/trunk-jpl/test/NightlyRun/test606.py M /issm/trunk-jpl/test/NightlyRun/test607.py  
M /issm/trunk-jpl/test/NightlyRun/test608.py M /issm/trunk-jpl/test/NightlyRun/test611.py  
M /issm/trunk-jpl/test/NightlyRun/test613.py M /issm/trunk-jpl/test/NightlyRun/test801.py  
M /issm/trunk-jpl/test/NightlyRun/test802.py M /issm/trunk-jpl/test/NightlyRun/test803.py  
M /issm/trunk-jpl/test/NightlyRun/test804.py M /issm/trunk-jpl/test/NightlyRun/test805.py  
M /issm/trunk-jpl/test/NightlyRun/test806.py M /issm/trunk-jpl/test/NightlyRun/test807.py  
Export determination: 6.  
Rationale: CHG: no more enums in python

**Change #511** with diff file ISSM-21061-21062.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/FemModel.cpp  
Export determination: 6.  
Rationale: CHG: need extrude for mt

**Change #512** with diff file ISSM-21062-21063.diff:

Function name:

D /issm/trunk-jpl/src/m/contrib/larour/tres.m A /issm/trunk-jpl/src/m/solve/outbinread.m

Export determination: 6.

Rationale: CHG: added outbinread to partially read outbin

**Change #513** with diff file ISSM-21063-21064.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/outbinread.m

Export determination: 6.

Rationale: minor

**Change #514** with diff file ISSM-21064-21065.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/matlab/io/WriteMatlabData.cpp M /issm/trunk-jpl/src/wrappers/matlab/io/matlabio.h

Export determination: 6.

Rationale: CHG: use const char\* rather than char\*

**Change #515** with diff file ISSM-21065-21066.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/SMBforcing.js M /issm/trunk-jpl/src/m/classes/autodiff.js  
M /issm/trunk-jpl/src/m/classes/balancethickness.js M /issm/trunk-jpl/src/m/classes/basalforcings.js  
M /issm/trunk-jpl/src/m/classes/calving.js M /issm/trunk-jpl/src/m/classes/clusters/generic.js  
M /issm/trunk-jpl/src/m/classes/damage.js M /issm/trunk-jpl/src/m/classes/flaim.js  
M /issm/trunk-jpl/src/m/classes/flowequation.js M /issm/trunk-jpl/src/m/classes/friction.js  
M /issm/trunk-jpl/src/m/classes/geometry.js M /issm/trunk-jpl/src/m/classes/gia.js  
M /issm/trunk-jpl/src/m/classes/hydrologyshreve.js M /issm/trunk-jpl/src/m/classes/initialization.js  
M /issm/trunk-jpl/src/m/classes/inversion.js M /issm/trunk-jpl/src/m/classes/levelset.js  
M /issm/trunk-jpl/src/m/classes/masstransport.js M /issm/trunk-jpl/src/m/classes/matice.js  
M /issm/trunk-jpl/src/m/classes/mesh2d.js M /issm/trunk-jpl/src/m/classes/outputdefinition.js  
M /issm/trunk-jpl/src/m/classes/outputdefinition.m M /issm/trunk-jpl/src/m/classes/rifts.js  
M /issm/trunk-jpl/src/m/classes/slr.js M /issm/trunk-jpl/src/m/classes/steadystate.js  
M /issm/trunk-jpl/src/m/classes/stressbalance.js M /issm/trunk-jpl/src/m/classes/thermal.js

M /issm/trunk-jpl/src/m/classes/toolkits.js M /issm/trunk-jpl/src/m/classes/trans.js  
M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.js M /issm/trunk-jpl/src/m/inversions/marshallcostfunctions.js M /issm/trunk-jpl/src/m/solve/WriteData.js  
M /issm/trunk-jpl/src/m/solve/solve.js  
Export determination: 6.  
Rationale: CHG: Replaced all javascript enums with solution strings and analyses strings to match matlab and python code

**Change #516** with diff file ISSM-21066-21067.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: better way to deal with caxis and log options

**Change #517** with diff file ISSM-21067-21068.diff:

Function name:

M /issm/trunk-jpl/src/m/geometry/find\_point.m

Export determination: 6.

Rationale: CHG: more efficient find\_point

**Change #518** with diff file ISSM-21068-21069.diff:

Function name:

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

M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/ExternalResults/Generic

M /issm/trunk-jpl/src/c/main/kriging.cpp M /issm/trunk-jpl/src/m/contrib/morlighem/gslib/pkriging.m

Export determination: 6.

Rationale: CHG: fixed compilation warning and export kriging results with string rather than enum

**Change #519** with diff file ISSM-21069-21070.diff:

Function name:

M /issm/trunk-jpl/src/m/boundaryconditions/love\_numbers.py M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.py

M /issm/trunk-jpl/src/m/coordsystems/gmtmask.py M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.py

M /issm/trunk-jpl/src/m/miscellaneous/issmdoc.m M /issm/trunk-jpl/src/m/solve/WriteData.py

M /issm/trunk-jpl/src/m/solve/loadresultsfromdisk.m M /issm/trunk-jpl/src/m/solve/loadresultsfromdisk.py  
M /issm/trunk-jpl/src/m/solve/marshall.py M /issm/trunk-jpl/src/m/solve/solve.js  
M /issm/trunk-jpl/src/m/solve/solve.py M /issm/trunk-jpl/src/m/solve/solveslm.m  
Export determination: 6.  
Rationale: CHG: getting rid of more enums

**Change #520** with diff file ISSM-21070-21071.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/matlab/io/WriteMatlabData.cpp M /issm/trunk-jpl/src/wrappers/matlab/io/matlabio.h

Export determination: 6.

Rationale: CHG: fixing string not being written correctly

**Change #521** with diff file ISSM-21071-21072.diff:

Function name:

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

Export determination: 6.

Rationale: DEL: removed Enums, RIP

**Change #522** with diff file ISSM-21072-21073.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/depthaverage\_core.cpp

Export determination: 6.

Rationale: CHG: more complete depth averaging solution

**Change #523** with diff file ISSM-21073-21074.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/depthaverage\_core.cpp

Export determination: 6.

Rationale: CHG: forgot to declare vairables

**Change #524** with diff file ISSM-21074-21075.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/DepthAverageAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/MasstransportAnalysis.cpp M /issm/trunk-jpl/src/c/cores/masstransport\_core.cpp  
M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt  
M /issm/trunk-jpl/src/c/shared/Enum/README M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cp  
M /issm/trunk-jpl/src/c/shared/Enum/Synchronize.sh  
Export determination: 6.  
Rationale: BUG: mass transport was not working properly for flowband models

**Change #525** with diff file ISSM-21075-21076.diff:

Function name:  
M /issm/trunk-jpl/src/m/Makefile.am  
Export determination: 6.  
Rationale: CHG: fixing makefile

**Change #526** with diff file ISSM-21076-21077.diff:

Function name:  
M /issm/trunk-jpl/test/NightlyRun/test2002.m M /issm/trunk-jpl/test/NightlyRun/test2002.py  
M /issm/trunk-jpl/test/NightlyRun/test4001.m M /issm/trunk-jpl/test/NightlyRun/test701.m  
M /issm/trunk-jpl/test/NightlyRun/test702.m M /issm/trunk-jpl/test/NightlyRun/test703.m  
Export determination: 6.  
Rationale: CHG: hardcoding test names

**Change #527** with diff file ISSM-21077-21078.diff:

Function name:  
M /issm/trunk-jpl/src/c/classes/FemModel.cpp M /issm/trunk-jpl/src/c/cores/masstransport\_core.cpp  
Export determination: 6.  
Rationale: BUG: fixed flowband model mass transport

**Change #528** with diff file ISSM-21078-21079.diff:

Function name:  
M /issm/trunk-jpl/test/NightlyRun/test2002.py  
Export determination: 6.  
Rationale: CHG: one more run for 2002



**Change #529** with diff file ISSM-21079-21080.diff:

Function name:

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

M /issm/trunk-jpl/src/c/cores/sealevelrise\_core\_eustatic.cpp M /issm/trunk-jpl/src/c/cores/sealevelrise\_core.n

Export determination: 6.

Rationale: CHG: fixed memory leak and some cosmetics

**Change #530** with diff file ISSM-21080-21081.diff:

Function name:

M /issm/trunk-jpl/src/m/coordsystems/gmtmask.m

Export determination: 6.

Rationale: CHG: safer gmtmask: we want an error if gmt does not work!

**Change #531** with diff file ISSM-21081-21082.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Running the Greenland example.

**Change #532** with diff file ISSM-21082-21083.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Changing how we move around when testing examples.

**Change #533** with diff file ISSM-21083-21084.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Matlab command for running examples.

**Change #534** with diff file ISSM-21084-21085.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: Handling examples Data.

**Change #535** with diff file ISSM-21085-21086.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive2002.nc M /issm/trunk-jpl/test/NightlyRun/test2002.m

M /issm/trunk-jpl/test/NightlyRun/test2002.py

Export determination: 6.

Rationale: CHG: fixing python test

**Change #536** with diff file ISSM-21086-21087.diff:

Function name:

M /issm/trunk-jpl/src/wrappers/ContourToMesh/ContourToMesh.h M /issm/trunk-

jpl/src/wrappers/DistanceToMaskBoundary/DistanceToMaskBoundary.h M /issm/trunk-

jpl/src/wrappers/ElementConnectivity/ElementConnectivity.h D /issm/trunk-

jpl/src/wrappers/EnumToString M /issm/trunk-jpl/src/wrappers/ExpToLevelSet/ExpToLevelSet.h

M /issm/trunk-jpl/src/wrappers/InterpFromMeshToGrid/InterpFromMeshToGrid.h

M /issm/trunk-jpl/src/wrappers/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.h

M /issm/trunk-jpl/src/wrappers/IssmConfig/IssmConfig.h M /issm/trunk-jpl/src/wrappers/NodeConnectivity

D /issm/trunk-jpl/src/wrappers/StringToEnum M /issm/trunk-jpl/src/wrappers/TriMesh/TriMesh.h

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

M /issm/trunk-jpl/src/wrappers/python/Makefile.am M /issm/trunk-jpl/src/wrappers/python/io/ApiPrintf.c

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

Export determination: 6.

Rationale: DEL: no more Enums, RIP

**Change #537** with diff file ISSM-21087-21088.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Params/Parameters.cpp M /issm/trunk-jpl/src/c/shared/Enum/EnumDefini

Export determination: 6.

Rationale: CHG: reorganizing Enums to lighten up Params

**Change #538** with diff file ISSM-21088-21089.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt  
M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp  
Export determination: 6.  
Rationale: CHG: minor

**Change #539** with diff file ISSM-21089-21090.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: Adding testing for examples.

**Change #540** with diff file ISSM-21090-21091.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: Bug in Jenkins script.

**Change #541** with diff file ISSM-21091-21092.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: Bug in Jenkins script.

**Change #542** with diff file ISSM-21092-21093.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: Wrong quotes!.

**Change #543** with diff file ISSM-21093-21094.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.

Rationale: FIX: Wrong log file!

**Change #544** with diff file ISSM-21094-21095.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot\_mesh.js M /issm/trunk-jpl/src/m/plot/plot\_overlay.js

M /issm/trunk-jpl/src/m/plot/plot\_quiver.js M /issm/trunk-jpl/src/m/plot/plot\_unit.js

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (JS): Optimized to use litegl framework.

**Change #545** with diff file ISSM-21095-21096.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_ad M /issm/trunk-jpl/jenkins/linux64\_ross\_ampi

Export determination: 6.

Rationale: CHG: added debugging statement

**Change #546** with diff file ISSM-21096-21097.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/EnumToAnalysis.cpp M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinition.h

M /issm/trunk-jpl/src/c/shared/Enum/EnumToString.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringToEnum.h

Export determination: 6.

Rationale: CHG: removed some Enums

**Change #547** with diff file ISSM-21097-21098.diff:

Function name:

D /issm/trunk-jpl/src/m/classes/flaim.js D /issm/trunk-jpl/src/m/classes/flaim.m

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

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

A /issm/trunk-jpl/src/m/classes/oldclasses/flaim.m (from /issm/trunk-jpl/src/m/classes/flaim.m:21095)

M /issm/trunk-jpl/src/m/classes/slr.py M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.js

M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.m M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.py M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/ClassTruncation.h

D /issm/trunk-jpl/src/m/os/flaimdir.m M /issm/trunk-jpl/src/m/solve/marshall.js

M /issm/trunk-jpl/src/m/solve/marshall.m M /issm/trunk-jpl/src/m/solve/marshall.py

M /issm/trunk-jpl/src/m/solve/solve.js M /issm/trunk-jpl/src/m/solve/solve.m

M /issm/trunk-jpl/src/m/solve/solve.py  
Export determination: 6.  
Rationale: DEL: removed flaim

**Change #548** with diff file ISSM-21098-21099.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp

Export determination: 6.

Rationale: CHG: some missing enums

**Change #549** with diff file ISSM-21099-21100.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Single quotes not getting through to runme.m.

**Change #550** with diff file ISSM-21100-21101.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Do not need to escape single quotes. Woops!.

**Change #551** with diff file ISSM-21101-21102.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Catch block is broken.

**Change #552** with diff file ISSM-21102-21103.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Tests were not being appended to log. Instead, they were overwritten.

**Change #553** with diff file ISSM-21103-21104.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp

Export determination: 6.

Rationale: CHG: moving enums around

**Change #554** with diff file ISSM-21104-21105.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/plumebasalforcings.m D /issm/trunk-jpl/src/wrappers/Exp2Kml

D /issm/trunk-jpl/src/wrappers/KMLFileRead D /issm/trunk-jpl/src/wrappers/KMLMeshWrite

D /issm/trunk-jpl/src/wrappers/KMLOverlay D /issm/trunk-jpl/src/wrappers/Kml2Exp

D /issm/trunk-jpl/src/wrappers/Shp2Kml M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am

Export determination: 6.

Rationale: DEL: removing some wrappers that are never used

**Change #555** with diff file ISSM-21105-21106.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: define variables before sourcing configuration to avoid "-eq: unary operator expected"

**Change #556** with diff file ISSM-21106-21107.diff:

Function name:

D /issm/trunk-jpl/src/m/modules/Exp2Kml.m D /issm/trunk-jpl/src/m/modules/KMLFileRead.m

D /issm/trunk-jpl/src/m/modules/KMLMeshWrite.m D /issm/trunk-jpl/src/m/modules/KMLOverlay.m

D /issm/trunk-jpl/src/m/modules/Kml2Exp.m D /issm/trunk-jpl/src/m/modules/Ll2xy.m

D /issm/trunk-jpl/src/m/modules/Shp2Kml.m D /issm/trunk-jpl/src/m/modules/Xy2ll.m

D /issm/trunk-jpl/src/wrappers/Ll2xy D /issm/trunk-jpl/src/wrappers/Xy2ll

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

Export determination: 6.

Rationale: DEL: removing useless modules

**Change #557** with diff file ISSM-21107-21108.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixed if statement

**Change #558** with diff file ISSM-21108-21109.diff:

Function name:

D /issm/trunk-jpl/externalpackages/dace D /issm/trunk-jpl/externalpackages/graphviz

D /issm/trunk-jpl/externalpackages/slepc D /issm/trunk-jpl/externalpackages/tao

Export determination: 6.

Rationale: DEL: removing some externalpackages that are not used anymore

**Change #559** with diff file ISSM-21109-21110.diff:

Function name:

D /issm/trunk-jpl/src/m/array/find\_string.m M /issm/trunk-jpl/src/m/qmu/dakota\_in\_write.m

Export determination: 6.

Rationale: CHG: find\_string can be replaced by ismember

**Change #560** with diff file ISSM-21110-21111.diff:

Function name:

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

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

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

Export determination: 6.

Rationale: CHG: interpolation type is now provided as a string rather than an Enum

**Change #561** with diff file ISSM-21111-21112.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/ExtrudeFromBaseAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/ExtrudeFromTopAnalysis.cpp  
Export determination: 6.  
Rationale: BUG: fixed memory leak

**Change #562** with diff file ISSM-21112-21113.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp M /issm/trunk-jpl/src/c/classes/Materials/Matestar.c

Export determination: 6.

Rationale: BUG: fixed uninitialized values in Estar

**Change #563** with diff file ISSM-21113-21114.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Adding printf statements to catch block and attempting to fix logfile issue with examples.

**Change #564** with diff file ISSM-21114-21115.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Wrong type of quotes causing runme to bail.

**Change #565** with diff file ISSM-21115-21116.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: log files were not being created right. This is due to a bad file name.

**Change #566** with diff file ISSM-21116-21117.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh



Export determination: 6.  
Rationale: CHG: Adding starting marker to tests. Needed for julog to pick up different tests.

**Change #567** with diff file ISSM-21117-21118.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: Mistake with grabbing basename.

**Change #568** with diff file ISSM-21118-21119.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: From for loop to while.

**Change #569** with diff file ISSM-21119-21120.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: Bash has terrible syntax.

**Change #570** with diff file ISSM-21120-21121.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: Test name is off.

**Change #571** with diff file ISSM-21121-21122.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: FIX: Backspace char finds its way into the Matlab output.

**Change #572** with diff file ISSM-21122-21123.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Wrong file.

**Change #573** with diff file ISSM-21123-21124.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Moving back to for loop. Better way of keeping track of test names.

**Change #574** with diff file ISSM-21124-21125.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: So close! Added awk statements to filter test output.

**Change #575** with diff file ISSM-21125-21126.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Adding try to all examples. This should fix illegal use of reserved keyword catch issue.

**Change #576** with diff file ISSM-21126-21127.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Some steps do not have steps. Added a more general try statement.

**Change #577** with diff file ISSM-21127-21128.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Sed statement was a bit off.

**Change #578** with diff file ISSM-21128-21129.diff:

Function name:

M /issm/trunk-jpl/examples/Greenland/runme.m M /issm/trunk-jpl/examples/Inversion/runme.m

M /issm/trunk-jpl/examples/Pig/runme.m M /issm/trunk-jpl/examples/PigSensitivity/runme.m

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Modified runmes in examples to use the any function in step conditional statements. CHG: Implemented other examples in jenkins script. Still need to fill in steps for a couple of examples.

**Change #579** with diff file ISSM-21129-21130.diff:

Function name:

M /issm/trunk-jpl/examples/Pig/runme.m M /issm/trunk-jpl/examples/PigSensitivity/runme.m

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Runme step changed to steps FIX: jenkins script IceFlow to Iceflow

**Change #580** with diff file ISSM-21130-21131.diff:

Function name:

M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/export\_netCDF.py M /issm/trunk-jpl/src/m/contrib/defleurian/paraview/exportVTK.py

Export determination: 6.

Rationale: Minor changes in Basile's contrib

**Change #581** with diff file ISSM-21131-21132.diff:

Function name:  
A /issm/trunk-jpl/src/m/inversions/supportedcontrols.js  
Export determination: 6.  
Rationale: ADD: Ported supportedcontrols to javascript

**Change #582** with diff file ISSM-21132-21133.diff:  
Function name:  
A /issm/trunk-jpl/src/m/inversions/supportedcostfunctions.js  
Export determination: 6.  
Rationale: ADD: Ported supportedcostfunctions to javascript

**Change #583** with diff file ISSM-21133-21134.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test110.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test111.js  
Export determination: 6.  
Rationale: CHG: Change transient field to trans

**Change #584** with diff file ISSM-21134-21135.diff:  
Function name:  
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test116.js  
Export determination: 6.  
Rationale: ADD: Test116

**Change #585** with diff file ISSM-21135-21136.diff:  
Function name:  
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test121.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test122.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test123.js  
A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test124.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test125.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test126.js  
Export determination: 6.  
Rationale: ADD: Tests 121-126

**Change #586** with diff file ISSM-21136-21137.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test207.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test208.js

Export determination: 6.

Rationale: CHG: Change transient field to trans

**Change #587** with diff file ISSM-21137-21138.diff:

Function name:

M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test109.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test110.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test111.js  
M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test121.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test123.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test125.js  
M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test126.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test207.js M /issm/trunk-jpl/jenkins/javascript/karma/scripts/test208.js

Export determination: 6.

Rationale: CHG: Change reference to md.trans field to md.transient

**Change #588** with diff file ISSM-21138-21139.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plot\_mesh.js  
M /issm/trunk-jpl/src/m/plot/plot\_overlay.js M /issm/trunk-jpl/src/m/plot/plot\_quiver.js  
M /issm/trunk-jpl/src/m/plot/plot\_unit.js M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (JS): Adding atmospheric/skysphere rendering.

**Change #589** with diff file ISSM-21139-21140.diff:

Function name:

M /issm/trunk-jpl/src/m/Makefile.am M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.js  
M /issm/trunk-jpl/src/m/solve/solve.js

Export determination: 6.

Rationale: CHG (JS): Fixing syntax errors in solve and AnalysisConfiguration.

Removing flaim from Makefile.am.

**Change #590** with diff file ISSM-21140-21141.diff:

Function name:  
M /issm/trunk-jpl/src/c/analyses/StressbalanceAnalysis.cpp  
Export determination: 6.  
Rationale: BUG: fixed pressure in HO

**Change #591** with diff file ISSM-21141-21142.diff:

Function name:  
M /issm/trunk-jpl/src/m/classes/mask.m  
Export determination: 6.  
Rationale: CHG: enable GL forcing

**Change #592** with diff file ISSM-21142-21143.diff:

Function name:  
M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.js  
Export determination: 6.  
Rationale: CHG (JS): Removing erroneous break statements in AnalysisConfiguration.

**Change #593** with diff file ISSM-21143-21144.diff:

Function name:  
M /issm/trunk-jpl/src/m/solve/solve.js  
Export determination: 6.  
Rationale: CHG: solve casts solutionstring to upper instead of lowercase in comparison The solve function was casting the given solution string to uppercase and then comparing against a lowercase string, this caused all input strings to be invalid.

**Change #594** with diff file ISSM-21144-21145.diff:

Function name:  
D /issm/trunk-jpl/src/m/modules/EnumToString.m D /issm/trunk-jpl/src/m/modules/EnumToString.py  
D /issm/trunk-jpl/src/m/modules/StringToEnum.m D /issm/trunk-jpl/src/m/modules/StringToEnum.py  
M /issm/trunk-jpl/src/m/solve/WriteData.m M /issm/trunk-jpl/src/m/solve/WriteData.py  
Export determination: 6.  
Rationale: CHG: no more ENums

**Change #595** with diff file ISSM-21145-21146.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/HydrologySommersAnalysis.cpp M /issm/trunk-jpl/src/c/cores/hydrology\_core.cpp

Export determination: 6.

Rationale: CHG: Added effective pressure as an output, added term in meltrate to include changes in pressure melting point

**Change #596** with diff file ISSM-21146-21147.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive350.nc

Export determination: 6.

Rationale: CHG: updating archive accordingly

**Change #597** with diff file ISSM-21147-21148.diff:

Function name:

M /issm/trunk-jpl/src/m/solve/WriteData.js

Export determination: 6.

Rationale: FIX: Fix WriteData causing marshalling to fail Marshalling a field given the prefix 'object' causes WriteData to erroneously store the name of the field as an array (where it expects a character string), causing the marshalling to fail.

**Change #598** with diff file ISSM-21148-21149.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: better way to deal with recovering old SMB fields

**Change #599** with diff file ISSM-21149-21150.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test101.js M /issm/trunk-jpl/test/NightlyRun/test102.js  
M /issm/trunk-jpl/test/NightlyRun/test103.js M /issm/trunk-jpl/test/NightlyRun/test104.js  
M /issm/trunk-jpl/test/NightlyRun/test105.js M /issm/trunk-jpl/test/NightlyRun/test106.js  
M /issm/trunk-jpl/test/NightlyRun/test107.js M /issm/trunk-jpl/test/NightlyRun/test108.js

M /issm/trunk-jpl/test/NightlyRun/test109.js M /issm/trunk-jpl/test/NightlyRun/test111.js  
M /issm/trunk-jpl/test/NightlyRun/test112.js M /issm/trunk-jpl/test/NightlyRun/test113.js  
M /issm/trunk-jpl/test/NightlyRun/test114.js M /issm/trunk-jpl/test/NightlyRun/test115.js  
M /issm/trunk-jpl/test/NightlyRun/test201.js M /issm/trunk-jpl/test/NightlyRun/test202.js  
M /issm/trunk-jpl/test/NightlyRun/test203.js M /issm/trunk-jpl/test/NightlyRun/test204.js  
M /issm/trunk-jpl/test/NightlyRun/test205.js M /issm/trunk-jpl/test/NightlyRun/test206.js  
M /issm/trunk-jpl/test/NightlyRun/test207.js M /issm/trunk-jpl/test/NightlyRun/test209.js

Export determination: 6.

Rationale: CHG: Change calls to solve to accomodate removal of Enum

**Change #600** with diff file ISSM-21151-21152.diff:

Function name:

A /issm/trunk-jpl/scripts/ConvertAllNetcdfArchivesToArch.m M /issm/trunk-jpl/src/m/Makefile.am A /issm/trunk-jpl/src/m/archive A /issm/trunk-jpl/src/m/archive/arch.py  
A /issm/trunk-jpl/src/m/archive/archdisp.m A /issm/trunk-jpl/src/m/archive/archread.m  
A /issm/trunk-jpl/src/m/archive/archwrite.m A /issm/trunk-jpl/src/m/archive/netcdf2arch.m  
M /issm/trunk-jpl/src/m/miscellaneous/netcdf2struct.m A /issm/trunk-jpl/src/m/miscellaneous/readnetcdf.m  
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 M /issm/trunk-jpl/test/NightlyRun/README M /issm/trunk-jpl/test/NightlyRun/runme.m  
 M /issm/trunk-jpl/test/NightlyRun/runme.py

Export determination: 6.

Rationale: NEW: Replaced .nc files with custom binary .arch file to store test archives in. Added support for python and MATLABcalls that are similar to netcdf function calls.

**Change #601** with diff file ISSM-21152-21153.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive350.arch

Export determination: 6.

Rationale: CHG: updating archive accordingly

**Change #602** with diff file ISSM-21153-21154.diff:

Function name:

M /issm/trunk-jpl/examples/ISMIP/CheatyRunme.m M /issm/trunk-jpl/examples/IceflowModels/eismint.m

M /issm/trunk-jpl/examples/Inversion/runme.m D /issm/trunk-jpl/examples/SquareIceShelf/README

M /issm/trunk-jpl/examples/SquareIceShelf/runme.m

Export determination: 6.

Rationale: CHG: minor fixing syntax

**Change #603** with diff file ISSM-21154-21155.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: superlu library has a new name

**Change #604** with diff file ISSM-21155-21156.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/mask.js M /issm/trunk-jpl/src/m/classes/mask.m

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

Export determination: 6.

Rationale: CHG: 0 is now allowed in levelset

**Change #605** with diff file ISSM-21156-21157.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Fixing Greenland example step 8.

**Change #606** with diff file ISSM-21157-21158.diff:

Function name:

M /issm/trunk-jpl/examples/Greenland/runme.m

Export determination: 6.

Rationale: FIX: Accidently added content to step 8.

**Change #607** with diff file ISSM-21158-21159.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: do NOT allow ice levelset to be a time series, use md.levelset.spc instead (because MaskActiveNodes is set at t=0 and transient changes the time to t+dt, for which the mask needs to be updated)

**Change #608** with diff file ISSM-21159-21160.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: minor

**Change #609** with diff file ISSM-21160-21161.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp M /issm/trunk-jpl/test/Archives/Archive327.arch

Export determination: 6.

Rationale: BUG: update enthalpy basal BCs before run: newly activated, grounded elements at ice front might cause inconsistencies in basal BCs otherwise

**Change #610** with diff file ISSM-21161-21162.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/EnthalpyAnalysis.cpp

Export determination: 6.

Rationale: CHG: merge enthalpy postprocessing of steadystate and transient case

**Change #611** with diff file ISSM-21162-21163.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive327.arch M /issm/trunk-jpl/test/NightlyRun/runme.m

Export determination: 6.

Rationale: BUG: Fixed update procedure in matlab, caused by calling transpose on a matrix.

**Change #612** with diff file ISSM-21163-21164.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive327.arch

Export determination: 6.

Rationale: CHG: updated archive



**Change #613** with diff file ISSM-21164-21165.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot\_overlay.js M /issm/trunk-jpl/src/m/plot/plotdoc.js

Export determination: 6.

Rationale: CHG (JS): Atmosphere shading for overlays now affected by atmosphere option. Updating plotdoc with atmosphere option.

**Change #614** with diff file ISSM-21165-21166.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: fixing small issue

**Change #615** with diff file ISSM-21166-21167.diff:

Function name:

M /issm/trunk-jpl/src/m/archive/arch.py M /issm/trunk-jpl/src/m/archive/archdisp.m

M /issm/trunk-jpl/src/m/archive/archread.m M /issm/trunk-jpl/src/m/archive/archwrite.m

A /issm/trunk-jpl/test/Data/79North.arch D /issm/trunk-jpl/test/Data/79North.nc

A /issm/trunk-jpl/test/Data/ISMIPE.arch D /issm/trunk-jpl/test/Data/ISMIPE.nc

A /issm/trunk-jpl/test/Data/Pig.arch D /issm/trunk-jpl/test/Data/Pig.nc A

/issm/trunk-jpl/test/Data/SquareSheetConstrained.arch D /issm/trunk-jpl/test/Data/SquareSheetConstrained.nc

A /issm/trunk-jpl/test/Data/SquareSheetShelf.arch D /issm/trunk-jpl/test/Data/SquareSheetShelf.nc

A /issm/trunk-jpl/test/Data/SquareShelf.arch D /issm/trunk-jpl/test/Data/SquareShelf.nc

A /issm/trunk-jpl/test/Data/SquareShelfConstrained.arch D /issm/trunk-jpl/test/Data/SquareShelfConstrained.nc

A /issm/trunk-jpl/test/Data/convertmattoarch.m D /issm/trunk-jpl/test/Data/convertmattonc.m

A /issm/trunk-jpl/test/Data/loadarch.m D /issm/trunk-jpl/test/Data/loadnc.m

M /issm/trunk-jpl/test/Par/79North.par M /issm/trunk-jpl/test/Par/GiaBenchmarksAB.par

M /issm/trunk-jpl/test/Par/GiaBenchmarksCD.par M /issm/trunk-jpl/test/Par/ISMIPE.par

M /issm/trunk-jpl/test/Par/Pig.par M /issm/trunk-jpl/test/Par/SquareSheetConstrained.par

M /issm/trunk-jpl/test/Par/SquareSheetShelf.par M /issm/trunk-jpl/test/Par/SquareShelf.par

M /issm/trunk-jpl/test/Par/SquareShelf2.par M /issm/trunk-jpl/test/Par/SquareShelfConstrained.par

Export determination: 6.

Rationale: CHG: Removed nc support for test Data, updated Data, Par and matlab functions to use arch

**Change #616** with diff file ISSM-21167-21168.diff:

Function name:

M /issm/trunk-jpl/test/Par/79North.par M /issm/trunk-jpl/test/Par/GiaBenchmarksAB.par

M /issm/trunk-jpl/test/Par/GiaBenchmarksCD.par M /issm/trunk-jpl/test/Par/ISMIPE.par  
M /issm/trunk-jpl/test/Par/Pig.par M /issm/trunk-jpl/test/Par/SquareSheetConstrained.par  
M /issm/trunk-jpl/test/Par/SquareSheetShelf.par M /issm/trunk-jpl/test/Par/SquareShelf.par  
M /issm/trunk-jpl/test/Par/SquareShelf2.par M /issm/trunk-jpl/test/Par/SquareShelfConstrained.par  
Export determination: 6.  
Rationale: BUG: Fixed paths for par files under test

**Change #617** with diff file ISSM-21168-21169.diff:

Function name:

M /issm/trunk-jpl/test/Par/79North.par M /issm/trunk-jpl/test/Par/GiaBenchmarksAB.par  
M /issm/trunk-jpl/test/Par/GiaBenchmarksCD.par M /issm/trunk-jpl/test/Par/ISMIPE.par  
M /issm/trunk-jpl/test/Par/Pig.par M /issm/trunk-jpl/test/Par/SquareSheetConstrained.par  
M /issm/trunk-jpl/test/Par/SquareSheetShelf.par M /issm/trunk-jpl/test/Par/SquareShelf.par  
M /issm/trunk-jpl/test/Par/SquareShelf2.par M /issm/trunk-jpl/test/Par/SquareShelfConstrained.par  
Export determination: 6.

Rationale: BUG: Updated par files to use contents of the returned cell array  
from archread

**Change #618** with diff file ISSM-21169-21170.diff:

Function name:

M /issm/trunk-jpl/test/Par/SquareSheetConstrained.par  
Export determination: 6.

Rationale: BUG: Fixed typo in stressbalance field

**Change #619** with diff file ISSM-21170-21171.diff:

Function name:

M /issm/trunk-jpl/src/m/archive/arch.py M /issm/trunk-jpl/test/Par/79North.py  
M /issm/trunk-jpl/test/Par/ISMIPE.py 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/SquareShelf2.py  
M /issm/trunk-jpl/test/Par/SquareShelfConstrained.py M /issm/trunk-jpl/test/Par/ValleyGlacierShelf.py  
Export determination: 6.

Rationale: BUG: Fixed archread incorrectly reading the order of a matrix, and  
fixed Par python files to correctly read arch files

**Change #620** with diff file ISSM-21171-21172.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: better error message

**Change #621** with diff file ISSM-21172-21173.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: need to import os.path

**Change #622** with diff file ISSM-21173-21174.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plot\_mesh.js

M /issm/trunk-jpl/src/m/plot/plot\_overlay.js M /issm/trunk-jpl/src/m/plot/plot\_quiver.js

M /issm/trunk-jpl/src/m/plot/plot\_unit.js M /issm/trunk-jpl/src/m/plot/plotdoc.js

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (JS): Transform matrices rework improvements and switch to using meters as base units. Separating translation center and rotation/scale pivot. Adding separate rendering options for sky, space, and ground under "render" option, replacing "atmosphere". Updating plotdoc. Adding in modifyZoom function for UI interfacing with canvas.zoom. Adding printNodes function for debugging node attributes.

**Change #623** with diff file ISSM-21174-21175.diff:

Function name:

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

Export determination: 6.

Rationale: FIX: Probably a simple typo causing python tests to fail.

**Change #624** with diff file ISSM-21175-21176.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test102.js M /issm/trunk-jpl/test/NightlyRun/test103.js

A /issm/trunk-jpl/test/NightlyRun/test110.js A /issm/trunk-jpl/test/NightlyRun/test116.js  
 A /issm/trunk-jpl/test/NightlyRun/test120.js A /issm/trunk-jpl/test/NightlyRun/test121.js  
 A /issm/trunk-jpl/test/NightlyRun/test122.js A /issm/trunk-jpl/test/NightlyRun/test123.js  
 A /issm/trunk-jpl/test/NightlyRun/test124.js A /issm/trunk-jpl/test/NightlyRun/test125.js  
 A /issm/trunk-jpl/test/NightlyRun/test126.js A /issm/trunk-jpl/test/NightlyRun/test210.js  
 A /issm/trunk-jpl/test/NightlyRun/test211.js A /issm/trunk-jpl/test/NightlyRun/test212.js  
 A /issm/trunk-jpl/test/NightlyRun/test213.js A /issm/trunk-jpl/test/NightlyRun/test214.js  
 A /issm/trunk-jpl/test/NightlyRun/test215.js A /issm/trunk-jpl/test/NightlyRun/test216.js  
 A /issm/trunk-jpl/test/NightlyRun/test217.js A /issm/trunk-jpl/test/NightlyRun/test218.js  
 A /issm/trunk-jpl/test/NightlyRun/test219.js A /issm/trunk-jpl/test/NightlyRun/test220.js  
 A /issm/trunk-jpl/test/NightlyRun/test221.js A /issm/trunk-jpl/test/NightlyRun/test222.js  
 Export determination: 6.  
 Rationale: Add tests 110,116,12[0-6], 21[0-9], 22[0-2]

**Change #625** with diff file ISSM-21176-21177.diff:

Function name:

M /issm/trunk-jpl/test/Par/79North.py M /issm/trunk-jpl/test/Par/Pig.py M  
 /issm/trunk-jpl/test/Par/SquareSheetShelf.py

Export determination: 6.

Rationale: BUG: need to change python type to int

**Change #626** with diff file ISSM-21177-21178.diff:

Function name:

M /issm/trunk-jpl/externalpackages/hdf5/install.sh M /issm/trunk-jpl/jenkins/linux64\_ross

Export determination: 6.

Rationale: CHG: Python/Numpy installed on Jenkins machine is not working.  
 We have to install the version in externalpackages. CHG: HDF5 uses C code  
 with C++ style comments. This causes problem when the C compiler's stan-  
 dard does not support that style of comments. Added CFLAG to take care of  
 that.

**Change #627** with diff file ISSM-21178-21179.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Moving away from the SUCCESS file way of checking if exter-  
 nalpackage was installed directory. It seems like a much more effective measure  
 is to check if the install directory is empty or not. Let's see how it goes.

**Change #628** with diff file ISSM-21179-21180.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: FIX: Typo for install dir name.

**Change #629** with diff file ISSM-21180-21181.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Added check to for install directory existing.

**Change #630** with diff file ISSM-21181-21182.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross

Export determination: 6.

Rationale: CHG: Added nose to package list.

**Change #631** with diff file ISSM-21182-21183.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Adding logic for handling externalpackages that do not create install dir. Also, adding tests for externalpackages even when skipped.

**Change #632** with diff file ISSM-21183-21184.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/test223.js A /issm/trunk-jpl/test/NightlyRun/test224.js

A /issm/trunk-jpl/test/NightlyRun/test225.js A /issm/trunk-jpl/test/NightlyRun/test226.js

A /issm/trunk-jpl/test/NightlyRun/test227.js A /issm/trunk-jpl/test/NightlyRun/test228.js

A /issm/trunk-jpl/test/NightlyRun/test229.js

Export determination: 6.

Rationale: ADD: JS Tests 223-229

**Change #633** with diff file ISSM-21184-21185.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross

Export determination: 6.

Rationale: CHG: readded more tests in jenkins

**Change #634** with diff file ISSM-21185-21186.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive702.arch

Export determination: 6.

Rationale: CHG: updated archive

**Change #635** with diff file ISSM-21186-21187.diff:

Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh

Export determination: 6.

Rationale: CHG: Fixing tabbing issue.

**Change #636** with diff file ISSM-21187-21188.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross\_se

Export determination: 6.

Rationale: FIX: Issue with using Python from externalpackages.

**Change #637** with diff file ISSM-21188-21189.diff:

Function name:

M /issm/trunk-jpl/jenkins/linux64\_ross M /issm/trunk-jpl/jenkins/linux64\_ross\_se

Export determination: 6.

Rationale: CHG: Order for python packages was off.

**Change #638** with diff file ISSM-21189-21190.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: Added a leading source of etc/environment.sh

**Change #639** with diff file ISSM-21190-21191.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/linux64\_ross\_se  
Export determination: 6.  
Rationale: CHG: Change config to match python location.

**Change #640** with diff file ISSM-21191-21192.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test101.html  
Export determination: 6.  
Rationale: CHG: Updating test101.html solution string

**Change #641** with diff file ISSM-21192-21193.diff:  
Function name:  
M /issm/trunk-jpl/src/c/analyses/HydrologySommersAnalysis.cpp  
Export determination: 6.  
Rationale: CHG: Minimum gap height increased to 0.001m - helps nonlinear iteration converge for thick ice and low input

**Change #642** with diff file ISSM-21193-21194.diff:  
Function name:  
M /issm/trunk-jpl/src/m/dev/issmversion.m  
Export determination: 6.  
Rationale: CHG: fixed issmversion

**Change #643** with diff file ISSM-21194-21195.diff:  
Function name:

M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: Removed exit statement that was screwing up externalpackages test. Also removed install success touch.

**Change #644** with diff file ISSM-21195-21196.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: Concatenating the output of compil.log to external package test.

**Change #645** with diff file ISSM-21196-21197.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh  
Export determination: 6.  
Rationale: CHG: Forwarding EVERYTHING to compil.log.

**Change #646** with diff file ISSM-21197-21198.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/jenkins.sh M /issm/trunk-jpl/jenkins/linux64\_ross\_se  
Export determination: 6.  
Rationale: CHG: Exiting if any externalpackage fails. Change gmt install script.

**Change #647** with diff file ISSM-21198-21199.diff:  
Function name:  
A /issm/trunk-jpl/jenkins/linux64\_ross\_python  
Export determination: 6.  
Rationale: ADD: Jenkins config file for testing Python and Ubuntu packages/

**Change #648** with diff file ISSM-21199-21200.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/linux64\_ross\_python



Export determination: 6.  
Rationale: FIX: Wrong python path.

**Change #649** with diff file ISSM-21200-21201.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/linux64\_ross\_python  
Export determination: 6.  
Rationale: FIX: Numpy path should be dist not site.

**Change #650** with diff file ISSM-21201-21202.diff:  
Function name:  
M /issm/trunk-jpl/src/wrappers/python/io/FetchPythonData.cpp  
Export determination: 6.  
Rationale: BUG: Fixing a Python bug where invalid pointers are freed, which causes segfault.

**Change #651** with diff file ISSM-21202-21203.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/linux64\_ross\_dakota  
Export determination: 6.  
Rationale: CHG: Reducing number of CPUS available to Jenkins build. Needs to share resources.

**Change #652** with diff file ISSM-21203-21204.diff:  
Function name:  
M /issm/trunk-jpl/src/c/analyses/HydrologyDCEfficientAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Loads/Pengrid.cpp M /issm/trunk-jpl/src/c/classes/Loads/Pengrid.h  
Export determination: 6.  
Rationale: NEW:modification to shift Moulin input to EPL when opened

**Change #653** with diff file ISSM-21204-21205.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/javascript/karma/scripts/m2js.sh M /issm/trunk-jpl/jenkins/javascript/karma/scripts

D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test101.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test102.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test103.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test104.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test105.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test106.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test107.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test108.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test109.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test110.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test111.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test112.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test113.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test114.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test115.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test116.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test120.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test121.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test122.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test123.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test124.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test125.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test126.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test201.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test202.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test203.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test204.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test205.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test206.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test207.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test208.js D /issm/trunk-jpl/jenkins/javascript/karma/scripts/test209.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test231.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test232.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test233.js A /issm/trunk-jpl/jenkins/javascript/karma/scripts/test234.js  
 Export determination: 6.  
 Rationale: ADD: JS Add tests 231-4

**Change #654** with diff file ISSM-21205-21206.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plot\_mesh.js  
 M /issm/trunk-jpl/src/m/plot/plot\_overlay.js M /issm/trunk-jpl/src/m/plot/plot\_quiver.js  
 M /issm/trunk-jpl/src/m/plot/plot\_unit.js M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (JS): Updating webgl plotting routines for multiple canvas compatibility.

**Change #655** with diff file ISSM-21206-21207.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: added error message to avoid tracking the bug of IsInput, wasting EVERYONE's time

**Change #656** with diff file ISSM-21207-21208.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp

Export determination: 6.

Rationale: CHG: removed error message in some cases:

**Change #657** with diff file ISSM-21208-21209.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/HydrologySommersAnalysis.cpp M /issm/trunk-

jpl/src/c/classes/Elements/Element.cpp M /issm/trunk-jpl/src/c/cores/hydrology\_core.cpp

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

Export determination: 6.

Rationale: CHG: Changed creep term on RHS of elliptic eqn to use lagged head from previous time step and added new HydrologyHeadEnum

**Change #658** with diff file ISSM-21209-21210.diff:

Function name:

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/GetAreas.js A /issm/trunk-

jpl/jenkins/javascript/karma/lib/bin/adjacency.js A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/partiti

A /issm/trunk-jpl/jenkins/javascript/karma/lib/bin/supportedcontrols.js A /issm/trunk-

jpl/jenkins/javascript/karma/lib/bin/supportedcostfunctions.js

Export determination: 6.

Rationale: ADD: JS Add GetAreas,adjacency,partitioner,supported costs and controls.

**Change #659** with diff file ISSM-21210-21211.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive350.arch

Export determination: 6.

Rationale: CHG: use old head in creeping term

**Change #660** with diff file ISSM-21211-21212.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/HydrologySommersAnalysis.cpp

Export determination: 6.

Rationale: CHG: no need to initialize old head

**Change #661** with diff file ISSM-21212-21213.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-3.7-pleiades.sh

Export determination: 6.

Rationale: CHG: installation script for install-3.7-pleiades.sh

**Change #662** with diff file ISSM-21213-21214.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/HydrologyDCEfficientAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/HydrologyDCInefficientAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Loads/Moulin.cpp

M /issm/trunk-jpl/src/c/classes/Loads/Moulin.h M /issm/trunk-jpl/src/c/classes/Loads/Pengrid.cpp

M /issm/trunk-jpl/src/c/classes/Loads/Pengrid.h

Export determination: 6.

Rationale: NEW:Moved the treatment of DC moulins inut to Moulin.cpp and define input in EPL when it exists

**Change #663** with diff file ISSM-21214-21215.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Loads/Moulin.cpp

Export determination: 6.

Rationale: BUG: fixing AD

**Change #664** with diff file ISSM-21215-21216.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/test230.js A /issm/trunk-jpl/test/NightlyRun/test231.js

A /issm/trunk-jpl/test/NightlyRun/test232.js A /issm/trunk-jpl/test/NightlyRun/test233.js

A /issm/trunk-jpl/test/NightlyRun/test234.js A /issm/trunk-jpl/test/NightlyRun/test235.js

Export determination: 6.

Rationale: ADD: JS Add test 230-235

**Change #665** with diff file ISSM-21216-21217.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SmbAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp  
M /issm/trunk-jpl/src/c/modules/SurfaceMassBalance/Gembx.cpp M /issm/trunk-jpl/src/c/modules/SurfaceMassBalance/SurfaceMassBalance.h M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToString.cpp  
M /issm/trunk-jpl/src/c/shared/Enum/StringToEnum.cpp M /issm/trunk-jpl/src/c/shared/Matrix/MatrixU  
M /issm/trunk-jpl/src/m/classes/SMBgemb.m M /issm/trunk-jpl/src/m/solve/parseresultsfromdisk.m  
M /issm/trunk-jpl/src/py3/enum/EnumDefinitions.py M /issm/trunk-jpl/test/Archives/Archive243.arch  
M /issm/trunk-jpl/test/Data/gemb\_input.mat M /issm/trunk-jpl/test/NightlyRun/test243.m

Export determination: 6.

Rationale: BUG: debugging GEMB (time steps, energy balance, restart option, mergins cells)

**Change #666** with diff file ISSM-21217-21218.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp

Export determination: 6.

Rationale: FIX: Changed type of isX to fix issue with converting double to bool in AD builds..

**Change #667** with diff file ISSM-21218-21219.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp

Export determination: 6.

Rationale: REV: Reverting back to IssmDouble. Fix did not work.

**Change #668** with diff file ISSM-21219-21220.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: simplified radarpower and added list of multiple possible paths for geotiff images

**Change #669** with diff file ISSM-21220-21221.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Enum/EnumToStringx.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringToEnum.cpp

M /issm/trunk-jpl/test/Archives/Archive243.arch M /issm/trunk-jpl/test/NightlyRun/test243.m

Export determination: 6.

Rationale: BUG: debugging GEMB (time steps, energy balance, restart option, merging cells)

**Change #670** with diff file ISSM-21221-21222.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test243.m

Export determination: 6.

Rationale: CHG: new test243 archive

**Change #671** with diff file ISSM-21222-21223.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test243.m

Export determination: 6.

Rationale: CHG: new test243 archive

**Change #672** with diff file ISSM-21223-21224.diff:

Function name:

M /issm/trunk-jpl/jenkins/macosx\_pine-island

Export determination: 6.

Rationale: CHG: Adding test243 to mac os Jenkins.

**Change #673** with diff file ISSM-21224-21225.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp M /issm/trunk-jpl/src/m/classes/SMBgemb.m

Export determination: 6.

Rationale: CHG: new test243 plus archive, isrestart-isinitialized bool

**Change #674** with diff file ISSM-21225-21226.diff:

Function name:  
M /issm/trunk-jpl/externalpackages/cmake/install.sh  
Export determination: 6.  
Rationale: CHG: trying a new version of cmake

**Change #675** with diff file ISSM-21226-21227.diff:  
Function name:  
M /issm/trunk-jpl/src/c/cores/sealevelrise\_core.cpp  
Export determination: 6.  
Rationale: CHG: updated the sealevelrise\_core transfer of slr back from the earth to the icecaps. The generic param template was not being used to retrieve the MPI comms.

**Change #676** with diff file ISSM-21227-21228.diff:  
Function name:  
M /issm/trunk-jpl/src/m/solve/solveslm.m  
Export determination: 6.  
Rationale: CHG: adapted solveslm to the new string processing instead of enum based processing.

**Change #677** with diff file ISSM-21228-21229.diff:  
Function name:  
M /issm/trunk-jpl/src/c/modules/SurfaceMassBalancex/Gembx.cpp  
Export determination: 6.  
Rationale: BUG: minor bugs(memory leaks) in GEMB

**Change #678** with diff file ISSM-21229-21230.diff:  
Function name:  
M /issm/trunk-jpl/m4/issm\_options.m4  
Export determination: 6.  
Rationale: CHG: do not use `--with-mkl-dir` anymore but `--with-mkl-libflags` and provide all flags

**Change #679** with diff file ISSM-21230-21231.diff:

Function name:

A /issm/trunk-jpl/configs/config-linux64-vilje.sh

Export determination: 6.

Rationale: adding configure file for UiB Vilje

**Change #680** with diff file ISSM-21231-21232.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/plot\_mesh.js

M /issm/trunk-jpl/src/m/plot/plot\_overlay.js M /issm/trunk-jpl/src/m/plot/plot\_quiver.js

M /issm/trunk-jpl/src/m/plot/plot\_unit.js M /issm/trunk-jpl/src/m/plot/plotdoc.js

M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG (JS): data markers and displays now uses 2d map marker and is more accurate.

**Change #681** with diff file ISSM-21232-21233.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SmbAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp

M /issm/trunk-jpl/src/c/modules/SurfaceMassBalance/Gembx.cpp M /issm/trunk-

jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToString.cpp

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnum.cpp M /issm/trunk-jpl/src/m/classes/SMBgemb.m

Export determination: 6.

Rationale: CHG: simplified how deal with initialization of snow properties (incl. if restart sim.)

**Change #682** with diff file ISSM-21233-21234.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/HydrologyDCEfficientAnalysis.cpp M /issm/trunk-

jpl/src/c/analyses/HydrologyDCInefficientAnalysis.cpp

Export determination: 6.

Rationale: NEW: shifting input to EPL if it is open

**Change #683** with diff file ISSM-21234-21235.diff:

Function name:



M /issm/trunk-jpl/src/m/classes/clusters/vilje.py  
Export determination: 6.  
Rationale: CHG:modifying cluster to take into account the new modules

**Change #684** with diff file ISSM-21235-21236.diff:  
Function name:  
M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/export\_netCDF.py M /issm/trunk-jpl/src/m/io/loadmodel.py M /issm/trunk-jpl/src/m/io/loadvars.py  
Export determination: 6.  
Rationale: NEW:adding netcd export import ability in python

**Change #685** with diff file ISSM-21236-21237.diff:  
Function name:  
M /issm/trunk-jpl/src/m/io/loadvars.py  
Export determination: 6.  
Rationale: BUG:sorting a few bugs, now able to run from netCDF

**Change #686** with diff file ISSM-21237-21238.diff:  
Function name:  
M /issm/trunk-jpl/test/Archives/Archive333.arch M /issm/trunk-jpl/test/Archives/Archive335.arch  
Export determination: 6.  
Rationale: FIX: archives test 333 and 335

**Change #687** with diff file ISSM-21238-21239.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/plotdoc.js M /issm/trunk-jpl/src/m/plot/webgl.js  
Export determination: 6.  
Rationale: CHG (JS): Adding datamarker\_image and datamarkersize options for js plots.

**Change #688** with diff file ISSM-21240-21241.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/plot\_gridded.m

Export determination: 6.  
Rationale: CHG: added nmedian

**Change #689** with diff file ISSM-21244-21245.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/inversion.py  
Export determination: 6.  
Rationale: BUG:minor change to get the default vallue consistent with what is asked by the code

**Change #690** with diff file ISSM-21245-21246.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/rifts.py  
Export determination: 6.  
Rationale: BUG: adding the numeric vallues of fill in checkoption (will happen in restart) and Pyhtonizing the translation

**Change #691** with diff file ISSM-21246-21247.diff:  
Function name:  
M /issm/trunk-jpl/src/m/inversions/marshallcostfunctions.py  
Export determination: 6.  
Rationale: CHG: Python way to give string to the cost\_fuctions

**Change #692** with diff file ISSM-21247-21248.diff:  
Function name:  
M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/export\_netCDF.py M /issm/trunk-jpl/src/m/io/loadvars.py  
Export determination: 6.  
Rationale: BUG:update to netCDF export import after clearing the nightly runs

**Change #693** with diff file ISSM-21248-21249.diff:  
Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp  
Export determination: 6.  
Rationale: CHG: no need for a dynamic allocation

**Change #694** with diff file ISSM-21249-21250.diff:  
Function name:  
M /issm/trunk-jpl/src/c/classes/Node.cpp  
Export determination: 6.  
Rationale: CHG: duplicate if classes/Node.cpp

**Change #695** with diff file ISSM-21250-21251.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/colormaps/bluewhitered.m M /issm/trunk-jpl/src/m/plot/colormaps/bluewhite  
Export determination: 6.  
Rationale: CHG: enable axis

**Change #696** with diff file ISSM-21251-21252.diff:  
Function name:  
M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/export\_netCDF.py  
Export determination: 6.  
Rationale: BUG:minor fixes

**Change #697** with diff file ISSM-21252-21253.diff:  
Function name:  
M /issm/trunk-jpl/src/m/io/loadvars.py  
Export determination: 6.  
Rationale: BUG: fixed indexing for results may have broke something elsewhere

**Change #698** with diff file ISSM-21253-21254.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/applyoptions.py M /issm/trunk-jpl/src/m/plot/checkplotoptions.py  
M /issm/trunk-jpl/src/m/plot/plot\_manager.py M /issm/trunk-jpl/src/m/plot/plot\_unit.py  
M /issm/trunk-jpl/src/m/plot/plotmodel.py M /issm/trunk-jpl/src/m/plot/processdata.py

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

Export determination: 6.

Rationale: NEW:Some cosmetic changes and addition of mask and log abilities

**Change #699** with diff file ISSM-21254-21255.diff:

Function name:

M /issm/trunk-jpl/src/m/boundaryconditions/PattynSMB.py M /issm/trunk-jpl/src/m/classes/outputdefinition.py M /issm/trunk-jpl/src/m/classes/qmu.py

M /issm/trunk-jpl/src/m/classes/settings.py M /issm/trunk-jpl/src/m/coordsystems/ll2xy.py

M /issm/trunk-jpl/src/m/coordsystems/xy2ll.py M /issm/trunk-jpl/src/m/exp/expcoarsen.py

M /issm/trunk-jpl/src/m/exp/expdisp.py M /issm/trunk-jpl/src/m/extrusion/DepthAverage.py

M /issm/trunk-jpl/src/m/extrusion/project2d.py M /issm/trunk-jpl/src/m/geometry/slope.py

M /issm/trunk-jpl/src/m/interp/SectionValues.py M /issm/trunk-jpl/src/m/interp/averaging.py

M /issm/trunk-jpl/src/m/interp/holefiller.py M /issm/trunk-jpl/src/m/interp/interp.py

M /issm/trunk-jpl/src/m/inversions/parametercontroldrag.py M /issm/trunk-jpl/src/m/materials/TMeltingPoint.py

M /issm/trunk-jpl/src/m/mech/analyticaldamage.py

M /issm/trunk-jpl/src/m/mech/backstressfrominversion.py M /issm/trunk-jpl/src/m/mech/calcbbackstress.py

M /issm/trunk-jpl/src/m/mech/damagefrominversion.py M /issm/trunk-jpl/src/m/mech/mechanicalproperties.py

M /issm/trunk-jpl/src/m/mech/robintemperature.py M /issm/trunk-jpl/src/m/mech/steadystateiceshelftemp.py

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

M /issm/trunk-jpl/src/m/plot/colormaps/cmaptools.py M /issm/trunk-jpl/src/m/plot/plot\_contour.py

M /issm/trunk-jpl/src/m/plot/plot\_overlay.py M /issm/trunk-jpl/src/m/plot/plot\_streamlines.py

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

M /issm/trunk-jpl/src/m/solve/parseresultsfromdisk.py

Export determination: 6.

Rationale: CHG: replacing npy by np for numpy abbreviation

**Change #700** with diff file ISSM-21255-21256.diff:

Function name:

M /issm/trunk-jpl/src/py3/boundaryconditions/PattynSMB.py M /issm/trunk-jpl/src/py3/classes/outputdefinition.py M /issm/trunk-jpl/src/py3/coordsystems/ll2xy.py

M /issm/trunk-jpl/src/py3/coordsystems/xy2ll.py M /issm/trunk-jpl/src/py3/exp/expcoarsen.py

M /issm/trunk-jpl/src/py3/exp/expdisp.py M /issm/trunk-jpl/src/py3/extrusion/DepthAverage.py

M /issm/trunk-jpl/src/py3/extrusion/project2d.py M /issm/trunk-jpl/src/py3/geometry/slope.py

M /issm/trunk-jpl/src/py3/interp/SectionValues.py M /issm/trunk-jpl/src/py3/interp/averaging.py

M /issm/trunk-jpl/src/py3/interp/holefiller.py M /issm/trunk-jpl/src/py3/interp/interp.py

M /issm/trunk-jpl/src/py3/inversions/parametercontroldrag.py M /issm/trunk-jpl/src/py3/materials/DepthAvgTempCond.py

M /issm/trunk-jpl/src/py3/materials/TMeltingPoint.py

M /issm/trunk-jpl/src/py3/mech/analyticaldamage.py M /issm/trunk-jpl/src/py3/mech/backstressfrominversion.py

M /issm/trunk-jpl/src/py3/mech/calcbbackstress.py M /issm/trunk-jpl/src/py3/mech/damagefrominversion.py

M /issm/trunk-jpl/src/py3/mech/mechanicalproperties.py M /issm/trunk-jpl/src/py3/mech/robintemperature  
M /issm/trunk-jpl/src/py3/mech/steadystateiceshelftemp.py M /issm/trunk-  
jpl/src/py3/mech/thomasparams.py M /issm/trunk-jpl/src/py3/plot/applyoptions.py  
M /issm/trunk-jpl/src/py3/plot/checkplotoptions.py M /issm/trunk-jpl/src/py3/plot/colormaps/cmaptools.py  
M /issm/trunk-jpl/src/py3/plot/plot\_contour.py M /issm/trunk-jpl/src/py3/plot/plot\_overlay.py  
M /issm/trunk-jpl/src/py3/plot/plot\_streamlines.py M /issm/trunk-jpl/src/py3/plot/plot\_unit.py  
M /issm/trunk-jpl/src/py3/plot/plotmodel.py M /issm/trunk-jpl/src/py3/plot/processdata.py  
M /issm/trunk-jpl/src/py3/plot/processmesh.py  
Export determination: 6.  
Rationale: CHG: replacing npy by np for numpy abbreviation

**Change #701** with diff file ISSM-21256-21257.diff:

Function name:

A /issm/trunk-jpl/src/m/plot/plot\_quiver.py M /issm/trunk-jpl/src/m/plot/plot\_unit.py

Export determination: 6.

Rationale: NEW:adding quiver to py plotmodel

**Change #702** with diff file ISSM-21257-21258.diff:

Function name:

M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/export\_netCDF.py M /issm/trunk-  
jpl/src/m/io/loadvars.py

Export determination: 6.

Rationale: BUG:compatibility fix for netCDF4-1.2

**Change #703** with diff file ISSM-21258-21259.diff:

Function name:

M /issm/trunk-jpl/src/m/io/loadvars.py

Export determination: 6.

Rationale: BUG: fixing display due to behaviour change of getvalue()

**Change #704** with diff file ISSM-21259-21260.diff:

Function name:

M /issm/trunk-jpl/src/m/io/loadvars.py

Export determination: 6.

Rationale: BUG:fixing bug introduced for the step indexing

**Change #705** with diff file ISSM-21260-21261.diff:

Function name:

M /issm/trunk-jpl/src/m/Makefile.am A /issm/trunk-jpl/src/m/classes/esa.js  
A /issm/trunk-jpl/src/m/classes/esa.m A /issm/trunk-jpl/src/m/classes/esa.py  
M /issm/trunk-jpl/src/m/classes/model.m M /issm/trunk-jpl/src/m/classes/transient.m  
M /issm/trunk-jpl/src/m/consistency/ismodelselfconsistent.m M /issm/trunk-jpl/src/m/solve/solve.m

Export determination: 6.

Rationale: NEW: added new ESA capability to compute 3D elastostatic crustal deformation

**Change #706** with diff file ISSM-21261-21262.diff:

Function name:

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/analyses/EnumToAnalysis.cpp  
A /issm/trunk-jpl/src/c/analyses/EsaAnalysis.cpp A /issm/trunk-jpl/src/c/analyses/EsaAnalysis.h  
M /issm/trunk-jpl/src/c/analyses/analyses.h M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp  
M /issm/trunk-jpl/src/c/classes/Elements/Element.h M /issm/trunk-jpl/src/c/classes/Elements/Penta.h  
M /issm/trunk-jpl/src/c/classes/Elements/Seg.h M /issm/trunk-jpl/src/c/classes/Elements/Tetra.h  
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.h  
M /issm/trunk-jpl/src/c/classes/FemModel.cpp M /issm/trunk-jpl/src/c/classes/FemModel.h  
M /issm/trunk-jpl/src/c/cores/CorePointerFromSolutionEnum.cpp M /issm/trunk-jpl/src/c/cores/cores.h A /issm/trunk-jpl/src/c/cores/esa\_core.cpp M /issm/trunk-jpl/src/c/modules/ModelProcessorx/CreateParameters.cpp M /issm/trunk-jpl/src/c/shared/Enum/EnumDefi  
M /issm/trunk-jpl/src/c/shared/Enum/EnumToStringx.cpp M /issm/trunk-jpl/src/c/shared/Enum/StringTo

Export determination: 6.

Rationale: NEW: added new ESA capability to compute 3D elastostatic crustal deformation

**Change #707** with diff file ISSM-21262-21263.diff:

Function name:

M /issm/trunk-jpl/m4/analyses.m4

Export determination: 6.

Rationale: BUG: minor

**Change #708** with diff file ISSM-21263-21264.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: added isesa

**Change #709** with diff file ISSM-21264-21265.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/test2101.m

Export determination: 6.

Rationale: NEW: Nightly for elastic response to unit ice cap unloading

**Change #710** with diff file ISSM-21265-21266.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Elements/Element.cpp

Export determination: 6.

Rationale: CHG: clean up some GEMB input allocated memory

**Change #711** with diff file ISSM-21266-21267.diff:

Function name:

A /issm/trunk-jpl/test/Archives/Archive2101.arch

Export determination: 6.

Rationale: NEW: archive for test2101

**Change #712** with diff file ISSM-21267-21268.diff:

Function name:

M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/export\_netCDF.py M /issm/trunk-jpl/src/m/io/loadvars.py M /issm/trunk-jpl/src/m/solve/parseresultsfromdisk.py

Export determination: 6.

Rationale: BUG: modifs to NC in/out removing print in parseresults

**Change #713** with diff file ISSM-21268-21269.diff:

Function name:

M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/export\_netCDF.py M /issm/trunk-jpl/src/m/io/loadvars.py  
Export determination: 6.  
Rationale: BUG: a few more fixes

**Change #714** with diff file ISSM-21269-21270.diff:  
Function name:  
M /issm/trunk-jpl/jenkins/windows  
Export determination: 6.  
Rationale: CHG: Attempting to fix test243 issue by changing floating point behavior.

**Change #715** with diff file ISSM-21270-21271.diff:  
Function name:  
M /issm/trunk-jpl/test/NightlyRun/test2101.m  
Export determination: 6.  
Rationale: CHG: minor

**Change #716** with diff file ISSM-21271-21272.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.py  
Export determination: 6.  
Rationale: BUG: fixing extrude

**Change #717** with diff file ISSM-21272-21273.diff:  
Function name:  
M /issm/trunk-jpl/src/c/analyses/EsaAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Element.h  
M /issm/trunk-jpl/src/c/classes/Elements/Penta.h M /issm/trunk-jpl/src/c/classes/Elements/Seg.h  
M /issm/trunk-jpl/src/c/classes/Elements/Tetra.h M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp  
M /issm/trunk-jpl/src/c/classes/Elements/Tria.h M /issm/trunk-jpl/src/c/classes/FemModel.cpp  
M /issm/trunk-jpl/src/c/classes/FemModel.h M /issm/trunk-jpl/src/c/cores/esa\_core.cpp  
Export determination: 6.  
Rationale: CHG: Elastostatic adjustment on a 2D plan geometry



**Change #718** with diff file ISSM-21273-21274.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2101.m A /issm/trunk-jpl/test/NightlyRun/test2110.m

Export determination: 6.

Rationale: NEW: a nightly added for ESA 2D surface

**Change #719** with diff file ISSM-21274-21275.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive2101.arch A /issm/trunk-jpl/test/Archives/Archive2110.arch

Export determination: 6.

Rationale: NEW: archive added for test2110

**Change #720** with diff file ISSM-21275-21276.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: principal stress convention is to sort by algebraic (not absolute) value

**Change #721** with diff file ISSM-21276-21277.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: push options parsing to the expdisp function to facilitate adding new options (patch fill to come), and to streamline applyoptions

**Change #722** with diff file ISSM-21277-21278.diff:

Function name:

M /issm/trunk-jpl/jenkins/windows

Export determination: 6.

Rationale: CHG: Fixing compiler flag error in Windows build.

**Change #723** with diff file ISSM-21278-21279.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: added capability to fill (patch) a closed contour using expdisp, and cleaned up function

**Change #724** with diff file ISSM-21279-21280.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/HydrologyDCEfficientAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/HydrologyDCInefficientAnalysis.cpp M /issm/trunk-jpl/src/c/solutionsequences/solutionsequences.cpp

Export determination: 6.

Rationale: CHG: modification in transfer and EPL thickness computations

**Change #725** with diff file ISSM-21280-21281.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixing extrusion issues

**Change #726** with diff file ISSM-21281-21282.diff:

Function name:

A /issm/trunk-jpl/test/NightlyRun/test3300.py M /issm/trunk-jpl/test/NightlyRun/test333.m

M /issm/trunk-jpl/test/NightlyRun/test333.py A /issm/trunk-jpl/test/NightlyRun/test334.py

A /issm/trunk-jpl/test/NightlyRun/test335.py

Export determination: 6.

Rationale: NEW: adding python Nightlies that were missing

**Change #727** with diff file ISSM-21282-21283.diff:

Function name:

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

Export determination: 6.

Rationale: minor

**Change #728** with diff file ISSM-21283-21284.diff:

Function name:

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

A /issm/trunk-jpl/src/m/plot/plot\_BC.py A /issm/trunk-jpl/src/m/plot/plot\_icefront.py

M /issm/trunk-jpl/src/m/plot/plot\_manager.py M /issm/trunk-jpl/src/m/plot/plot\_mesh.py

M /issm/trunk-jpl/src/m/plot/plot\_quiver.py M /issm/trunk-jpl/src/m/plot/plot\_unit.py

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

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

Export determination: 6.

Rationale: CHG: colormap treatment grid subplot tweak NEW: BC ability plot-doc

**Change #729** with diff file ISSM-21284-21285.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: new options for expdisp documented in expdisp.py, much more flexible now

**Change #730** with diff file ISSM-21285-21286.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: indentation

**Change #731** with diff file ISSM-21286-21287.diff:

Function name:

M /issm/trunk-jpl/jenkins/windows

Export determination: 6.

Rationale: CHG: Trying a different floating pointing rounding scheme on Windows.

**Change #732** with diff file ISSM-21287-21288.diff:

Function name:

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

Export determination: 6.  
Rationale: BUG: fixing JS

**Change #733** with diff file ISSM-21288-21289.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/plot\_unit.py  
Export determination: 6.  
Rationale: BUG: resampling new colormaps causes ValueError in matplotlib 1.5.1

**Change #734** with diff file ISSM-21289-21290.diff:  
Function name:  
M /issm/trunk-jpl/src/m/plot/plot\_overlay.py M /issm/trunk-jpl/src/m/plot/plotdoc.py  
Export determination: 6.  
Rationale: CHG: updating some plotdoc, changing option name for overlay\_image for consistency

**Change #735** with diff file ISSM-21290-21291.diff:  
Function name:  
A /issm/trunk-jpl/src/m/classes/clusters/camhpc.m  
Export determination: 6.  
Rationale: NEW: added new cluster file for Neil

**Change #736** with diff file ISSM-21291-21292.diff:  
Function name:  
M /issm/trunk-jpl/src/m/classes/clusters/camhpc.m M /issm/trunk-jpl/src/m/classes/organizer.m  
Export determination: 6.  
Rationale: CHG: fixed camhpc

**Change #737** with diff file ISSM-21292-21293.diff:  
Function name:  
M /issm/trunk-jpl/src/c/analyses/StressbalanceSIAAnalysis.cpp  
Export determination: 6.

Rationale: CHG: adding new friction law (no sliding) in SIA 2d

**Change #738** with diff file ISSM-21293-21294.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/StressbalanceSIAAnalysis.cpp M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence\_linear.cpp

Export determination: 6.

Rationale: CHG: reverting back

**Change #739** with diff file ISSM-21294-21295.diff:

Function name:

M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence\_linear.cpp

Export determination: 6.

Rationale: CHG: uncomment back

**Change #740** with diff file ISSM-21295-21296.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SealevelriseAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Element

M /issm/trunk-jpl/src/c/classes/Elements/Penta.h M /issm/trunk-jpl/src/c/classes/Elements/Seg.h

M /issm/trunk-jpl/src/c/classes/Elements/Tetra.h M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp

M /issm/trunk-jpl/src/c/classes/Elements/Tria.h M /issm/trunk-jpl/src/c/classes/FemModel.cpp

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp M /issm/trunk-jpl/src/m/classes/slr.js

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

Export determination: 6.

Rationale: CHG: ocean\_area\_scaling option added to capture true eustatic rate

**Change #741** with diff file ISSM-21296-21297.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2002.m

Export determination: 6.

Rationale: CHG: deactivate ocean\_area\_scaling for now

**Change #742** with diff file ISSM-21297-21298.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: indentation caused colorbar to not be updated

**Change #743** with diff file ISSM-21298-21299.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: remove colorbar axes if not used

**Change #744** with diff file ISSM-21299-21300.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: problem with subdomains

**Change #745** with diff file ISSM-21300-21301.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/applyoptions.js M /issm/trunk-jpl/src/m/plot/checkplotoptions.js

M /issm/trunk-jpl/src/m/plot/gauge.js M /issm/trunk-jpl/src/m/plot/plot\_manager.js

M /issm/trunk-jpl/src/m/plot/plot\_mesh.js M /issm/trunk-jpl/src/m/plot/plot\_overlay.js

M /issm/trunk-jpl/src/m/plot/plot\_quiver.js M /issm/trunk-jpl/src/m/plot/plot\_unit.js

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

M /issm/trunk-jpl/src/m/plot/processdata.js M /issm/trunk-jpl/src/m/plot/processmesh.js

M /issm/trunk-jpl/src/m/plot/slider.js M /issm/trunk-jpl/src/m/plot/webgl.js

Export determination: 6.

Rationale: CHG: Integrating changes to js plot functions, including new options datamarkeroptions and movieoptions. Deprecating moviefps option. Updating plotdoc. Adding folds, fixing end of file new lines.

**Change #746** with diff file ISSM-21303-21304.diff:

Function name:

M /issm/trunk-jpl/src/m/archive/arch.py M /issm/trunk-jpl/src/m/boundaryconditions/PattynSMB.py

M /issm/trunk-jpl/src/m/boundaryconditions/SetIceSheetBC.py M /issm/trunk-jpl/src/m/boundaryconditions/SetIceShelfBC.py M /issm/trunk-jpl/src/m/boundaryconditions/SetMarineIce M /issm/trunk-jpl/src/m/boundaryconditions/love\_numbers.py M /issm/trunk-jpl/src/m/classes/SMBcomponents.py M /issm/trunk-jpl/src/m/classes/SMBd18opdd.py M /issm/trunk-jpl/src/m/classes/SMBforcing.py M /issm/trunk-jpl/src/m/classes/SMBmeltcomponents.py M /issm/trunk-jpl/src/m/classes/SMBpdd.py M /issm/trunk-jpl/src/m/classes/adinversion.py M /issm/trunk-jpl/src/m/classes/autodiff.py M /issm/trunk-jpl/src/m/classes/bamggeom.py M /issm/trunk-jpl/src/m/classes/bamgmesh.py M /issm/trunk-jpl/src/m/classes/basalforcings.py M /issm/trunk-jpl/src/m/classes/clusters/vilje.py M /issm/trunk-jpl/src/m/classes/dependent.py M /issm/trunk-jpl/src/m/classes/esa.py M /issm/trunk-jpl/src/m/classes/flowequation.py M /issm/trunk-jpl/src/m/classes/gia.py M /issm/trunk-jpl/src/m/classes/groundingline.py M /issm/trunk-jpl/src/m/classes/hydrologydc.py M /issm/trunk-jpl/src/m/classes/independent.py M /issm/trunk-jpl/src/m/classes/initialization.py M /issm/trunk-jpl/src/m/classes/inversion.py M /issm/trunk-jpl/src/m/classes/linearbasalforcings.py M /issm/trunk-jpl/src/m/classes/m1qn3inversion.py M /issm/trunk-jpl/src/m/classes/mask.py M /issm/trunk-jpl/src/m/classes/maskpsl.py M /issm/trunk-jpl/src/m/classes/mesh2d.py M /issm/trunk-jpl/src/m/classes/mesh3dprisms.py M /issm/trunk-jpl/src/m/classes/mesh3dsurface.py M /issm/trunk-jpl/src/m/classes/mismipbasalforcings.py M /issm/trunk-jpl/src/m/classes/model.py M /issm/trunk-jpl/src/m/classes/outputdefinition.py M /issm/trunk-jpl/src/m/classes/qmu.py M /issm/trunk-jpl/src/m/classes/results.py M /issm/trunk-jpl/src/m/classes/rifts.py M /issm/trunk-jpl/src/m/classes/slr.py M /issm/trunk-jpl/src/m/classes/steadystate.py M /issm/trunk-jpl/src/m/classes/stressbalance.py M /issm/trunk-jpl/src/m/classes/taoinversion.py M /issm/trunk-jpl/src/m/classes/thermal.py M /issm/trunk-jpl/src/m/consistency/checkfield.py M /issm/trunk-jpl/src/m/contrib/defleurian/netCDF/exp M /issm/trunk-jpl/src/m/contrib/defleurian/paraview/enveloppeVTK.py M /issm/trunk-jpl/src/m/contrib/defleurian/paraview/exportVTK.py M /issm/trunk-jpl/src/m/contrib/morlighem/bamg/Ya M /issm/trunk-jpl/src/m/coordsystems/gmtmask.py M /issm/trunk-jpl/src/m/coordsystems/ll2xy.py M /issm/trunk-jpl/src/m/coordsystems/xy2ll.py M /issm/trunk-jpl/src/m/exp/expcoarsen.py M /issm/trunk-jpl/src/m/exp/expdisp.py M /issm/trunk-jpl/src/m/exp/expread.py M /issm/trunk-jpl/src/m/exp/expwrite.py M /issm/trunk-jpl/src/m/extrusion/DepthAverage.py M /issm/trunk-jpl/src/m/extrusion/project2d.py M /issm/trunk-jpl/src/m/extrusion/project3d.py M /issm/trunk-jpl/src/m/geometry/FlagElements.py M /issm/trunk-jpl/src/m/geometry/GetAreas.py M /issm/trunk-jpl/src/m/geometry/SegIntersect.py M /issm/trunk-jpl/src/m/geometry/slope.py M /issm/trunk-jpl/src/m/interp/SectionValues.py M /issm/trunk-jpl/src/m/interp/averaging.py M /issm/trunk-jpl/src/m/interp/holefiller.py M /issm/trunk-jpl/src/m/interp/interp.py M /issm/trunk-jpl/src/m/io/loadvars.py M /issm/trunk-jpl/src/m/materials/TMeltingPoint.py M /issm/trunk-jpl/src/m/materials/cuffey.py M /issm/trunk-jpl/src/m/materials/cuffeytemperate.py M /issm/trunk-jpl/src/m/materials/paterson.py M /issm/trunk-jpl/src/m/mech/analyticaldamage.py M /issm/trunk-jpl/src/m/mech/backstressfrominversion.py M /issm/trunk-jpl/src/m/mech/calcbbackstress.py M /issm/trunk-jpl/src/m/mech/damagefrominversion.py M /issm/trunk-jpl/src/m/mech/mechanicalproperties M /issm/trunk-jpl/src/m/mech/robintemperature.py M /issm/trunk-jpl/src/m/mech/steadystateiceshelftemp M /issm/trunk-jpl/src/m/mech/thomasparams.py M /issm/trunk-jpl/src/m/mesh/ComputeHessian.py M /issm/trunk-jpl/src/m/mesh/ComputeMetric.py M /issm/trunk-jpl/src/m/mesh/ElementsFromEdge.py M /issm/trunk-jpl/src/m/mesh/GetNodalFunctionsCoeff.py M /issm/trunk-jpl/src/m/mesh/bamg.py M /issm/trunk-jpl/src/m/mesh/meshconvert.py M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.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/m/mesh/roundmesh.py

M /issm/trunk-jpl/src/m/mesh/squaremesh.py M /issm/trunk-jpl/src/m/mesh/triangle.py  
M /issm/trunk-jpl/src/m/miscellaneous/MatlabFuncs.py M /issm/trunk-jpl/src/m/miscellaneous/PythonFuncs.py  
M /issm/trunk-jpl/src/m/miscellaneous/fielddisplay.py M /issm/trunk-jpl/src/m/miscellaneous/isnans.py  
M /issm/trunk-jpl/src/m/parameterization/contourenvelope.py M /issm/trunk-jpl/src/m/parameterization/setflowequation.py  
M /issm/trunk-jpl/src/m/parameterization/setmask.py M /issm/trunk-jpl/src/m/parameterization/sethydrostaticmask.py  
M /issm/trunk-jpl/src/m/parameterization/setmask.py M /issm/trunk-jpl/src/m/plot/applyoptions.py  
M /issm/trunk-jpl/src/m/plot/checkplotoptions.py M /issm/trunk-jpl/src/m/plot/colormaps/cmaptools.py  
M /issm/trunk-jpl/src/m/plot/export\_gl.py M /issm/trunk-jpl/src/m/plot/plot\_BC.py  
M /issm/trunk-jpl/src/m/plot/plot\_icefront.py M /issm/trunk-jpl/src/m/plot/plot\_overlay.py  
M /issm/trunk-jpl/src/m/plot/plot\_quiver.py M /issm/trunk-jpl/src/m/plot/plot\_streamlines.py  
M /issm/trunk-jpl/src/m/plot/plot\_unit.py M /issm/trunk-jpl/src/m/plot/plotmodel.py  
M /issm/trunk-jpl/src/m/plot/processdata.py M /issm/trunk-jpl/src/m/plot/processmesh.py  
M /issm/trunk-jpl/src/m/plot/writejsfield.py M /issm/trunk-jpl/src/m/plot/writejsfile.py  
M /issm/trunk-jpl/src/m/solve/WriteData.py M /issm/trunk-jpl/src/m/solve/parseresultsfromdisk.py  
M /issm/trunk-jpl/src/m/solve/solve.py  
Export determination: 6.  
Rationale: CHG: major cosmetic clean up we now ask shape (N,) rather than (N,1) also uniformised numpy imports

**Change #747** with diff file ISSM-21304-21305.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test232.py M /issm/trunk-jpl/test/NightlyRun/test233.py

Export determination: 6.

Rationale: CHG: change to comply to new shape requirement

**Change #748** with diff file ISSM-21305-21306.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/clusters/camhpc.m

Export determination: 6.

Rationale: CHG: added email option to slurm

**Change #749** with diff file ISSM-21306-21307.diff:

Function name:

M /issm/trunk-jpl/src/m/boundaryconditions/love\_numbers.m M /issm/trunk-jpl/test/NightlyRun/test2002.m M /issm/trunk-jpl/test/NightlyRun/test2101.m

M /issm/trunk-jpl/test/NightlyRun/test2110.m

Export determination: 6.

Rationale: CHG: love numbers added for center-of-figure reference frame



**Change #750** with diff file ISSM-21307-21308.diff:

Function name:

M /issm/trunk-jpl/src/m/boundaryconditions/love\_numbers.m

Export determination: 6.

Rationale: CHG: reference frame- default set to CM

**Change #751** with diff file ISSM-21308-21309.diff:

Function name:

M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.py

Export determination: 6.

Rationale: FIX: Broken import statement.

**Change #752** with diff file ISSM-21309-21310.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/slr.js M /issm/trunk-jpl/src/m/classes/slr.m

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

Export determination: 6.

Rationale: CHG: ocean\_area\_scaling set to zero (i.e., no correction applied) by default

**Change #753** with diff file ISSM-21310-21311.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2002.m

Export determination: 6.

Rationale: minor

**Change #754** with diff file ISSM-21314-21315.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/ExpToLevelSetx/ExpToLevelSetx.cpp M /issm/trunk-jpl/src/c/modules/ExpToLevelSetx/ExpToLevelSetxt.cpp

Export determination: 6.

Rationale: BUG: was not working properly when the exp file has multiple con-

tours'

**Change #755** with diff file ISSM-21315-21316.diff:

Function name:

A /issm/trunk-jpl/externalpackages/export\_fig/ImageSelection.class A /issm/trunk-jpl/externalpackages/export\_fig/ImageSelection.java M /issm/trunk-jpl/externalpackages/export\_fig/LICENSE A /issm/trunk-jpl/externalpackages/export\_fig/README M /issm/trunk-jpl/externalpackages/export\_fig/README M /issm/trunk-jpl/externalpackages/export\_fig/append\_pdfs.m M /issm/trunk-jpl/externalpackages/export\_fig/copyfig.m M /issm/trunk-jpl/externalpackages/export\_fig/crop\_borders.m M /issm/trunk-jpl/externalpackages/export\_fig/eps2pdf.m M /issm/trunk-jpl/externalpackages/export\_fig/export\_fig.m M /issm/trunk-jpl/externalpackages/export\_fig/fix\_lines.m M /issm/trunk-jpl/externalpackages/export\_fig/gho 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 M /issm/trunk-jpl/externalpackages/export\_fig/using\_hg2.m

Export determination: 6.

Rationale: CHG: new version of export\_fig with a patch

**Change #756** with diff file ISSM-21318-21319.diff:

Function name:

M /issm/trunk-jpl/jenkins/windows

Export determination: 6.

Rationale: CHG: Changing fp flag to strict for Windows Jenkins build.

**Change #757** with diff file ISSM-21319-21320.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixed mkl library string mixed up with kml

**Change #758** with diff file ISSM-21325-21326.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: default to false for ocean area scaling. Also increased precision

on the ocean area.

**Change #759** with diff file ISSM-21331-21332.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SealevelriseAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.cp

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/c/shared/Enum/EnumToSt

M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp M /issm/trunk-jpl/src/m/classes/slr.js

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

Export determination: 6.

Rationale: CHG: rotational feedback added (have to define perturbation terms for inertia tensor though)

**Change #760** with diff file ISSM-21332-21333.diff:

Function name:

A /issm/trunk-jpl/test/Archives/Archive2003.arch A /issm/trunk-jpl/test/NightlyRun/test2003.m

M /issm/trunk-jpl/test/NightlyRun/test2110.m

Export determination: 6.

Rationale: NEW: nightly added for rotational feedback

**Change #761** with diff file ISSM-21333-21334.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2003.m

Export determination: 6.

Rationale: minor

**Change #762** with diff file ISSM-21334-21335.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixed MATLAB syntax

**Change #763** with diff file ISSM-21335-21336.diff:

Function name:

M /issm/trunk-jpl/src/m/interp/averaging.py  
Export determination: 6.  
Rationale: CHG: csc\_matrix needs a rank-2 array