

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 27032-27229

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Program: ISSM: Ice Sheet System Model

Person Requesting or Initiating Export: Dr. Eric Larour

Date Received: 25-Aug-PM

Document Title/Description: ISSM changes from revision 27032 to revision 27229

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

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:** 25-Aug-PM

Disposition:

- 1: Public Domain Information (Ref ITAR Section 120.11)
 - 2: Qualifies for ITAR Exemption
 - 3: Covered by Department of State License/Agreement Number
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 - 5: New License Required
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 - 7: Other (specify)
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Change #1 with diff file ISSM-27034-27035.diff:

Function name:

M /issm/trunk-jpl

Export determination: 6.

Rationale: merged trunk and trunk-jpl

Change #2 with diff file ISSM-27036-27037.diff:

Function name:

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

Export determination: 6.

Rationale: Block revision 27035 from being merged into trunk-jpl

Change #3 with diff file ISSM-27037-27038.diff:

Function name:

M /issm/trunk-jpl/configure.ac

Export determination: 6.

Rationale: CHG: changing ISSM version

Change #4 with diff file ISSM-27038-27039.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: CHG: added Bamber projection

Change #5 with diff file ISSM-27039-27040.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: minor, added step as an option

Change #6 with diff file ISSM-27040-27041.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-3.17-mac-intel.sh

Export determination: 6.

Rationale: CHG: added 3.17.1 mac intel

Change #7 with diff file ISSM-27041-27042.diff:

Function name:

M /issm/trunk-jpl/externalpackages/petsc/install-3.17-mac-intel.sh

Export determination: 6.

Rationale: CHG: do not call configure.py but configure because newest versions of PETSc do not have python 2

Change #8 with diff file ISSM-27042-27043.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-3.17-mac-m1-static.sh

Export determination: 6.

Rationale: CHG: added install-3.17-mac-m1-static.sh

Change #9 with diff file ISSM-27043-27044.diff:

Function name:

M /issm/trunk-jpl/externalpackages/petsc/install-3.17-mac-m1.sh

Export determination: 6.

Rationale: CHG: do not call configure.py

Change #10 with diff file ISSM-27044-27045.diff:
Function name:
M /issm/trunk-jpl/src/m/plot/plot_transient_movie.m
Export determination: 6.
Rationale: BUG: fixing transient movie if no field is provided

Change #11 with diff file ISSM-27045-27046.diff:
Function name:
M /issm/trunk-jpl/externalpackages/gsl/install-javascript.sh M /issm/trunk-jpl/externalpackages/triangle/install-linux-javascript.sh
Export determination: 6.
Rationale: BUG: Fixing JavaScript build

Change #12 with diff file ISSM-27046-27047.diff:
Function name:
M /issm/trunk-jpl/externalpackages/triangle/install-linux-javascript.sh
Export determination: 6.
Rationale: BUG: Fixing JavaScript build

Change #13 with diff file ISSM-27047-27048.diff:
Function name:
M /issm/trunk-jpl/externalpackages/gsl/install-static.sh M /issm/trunk-jpl/externalpackages/gsl/install.sh
Export determination: 6.
Rationale: CHG: Updating to latest version

Change #14 with diff file ISSM-27048-27049.diff:
Function name:
M /issm/trunk-jpl/externalpackages/gsl/install-javascript.sh M /issm/trunk-jpl/externalpackages/gsl/install-static.sh M /issm/trunk-jpl/externalpackages/gsl/install.sh
Export determination: 6.
Rationale: BUG: Wrong version number

Change #15 with diff file ISSM-27049-27050.diff:

Function name:

A /issm/trunk-jpl/src/m/contrib/morlighem/modeldata/interpIBCSO2.m (from /issm/trunk-jpl/src/m/contrib/morlighem/modeldata/interpIBCSO.m:27037)

Export determination: 6.

Rationale: CHG: added interpIBCSO2.m

Change #16 with diff file ISSM-27050-27051.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: steps was set incorrectly

Change #17 with diff file ISSM-27051-27052.diff:

Function name:

M /issm/trunk-jpl/m4/issm_options.m4

Export determination: 6.

Rationale: CHG: Making -D_DO_NOT_LOAD_GLOBALS_ flag default to avoid “symbol not found in flat namespace ‘__ZN14ToolkitOptions11toolkittypeE’”

Change #18 with diff file ISSM-27053-27054.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SealevelchangeAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/cores/sealevelchange_core.cpp

Export determination: 6.

Rationale: BUG: memory leaks in sealevelchange core

Change #19 with diff file ISSM-27054-27055.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: minor change

Change #20 with diff file ISSM-27055-27056.diff:

Function name:
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp
Export determination: 6.
Rationale: BUG: minor change

Change #21 with diff file ISSM-27056-27057.diff:
Function name:
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp
Export determination: 6.
Rationale: BUG: minor change

Change #22 with diff file ISSM-27057-27058.diff:
Function name:
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp
Export determination: 6.
Rationale: BUG: minor change

Change #23 with diff file ISSM-27059-27060.diff:
Function name:
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/cores/sealevelchange_core.cpp
Export determination: 6.
Rationale: BUG: memory management issue

Change #24 with diff file ISSM-27060-27061.diff:
Function name:
M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp
Export determination: 6.
Rationale: BUG: memory management issue

Change #25 with diff file ISSM-27061-27062.diff:
Function name:
M /issm/trunk-jpl/src/c/analyses/SealevelchangeAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/cores/sealevelchange_core.cpp

Export determination: 6.
Rationale: CHG: Reverting memory management fix

Change #26 with diff file ISSM-27062-27063.diff:
Function name:
M /issm/trunk-jpl/src/wrappers/IssmConfig/IssmConfig.cpp
Export determination: 6.
Rationale: CHG: check specific packages(CUDA and PASTIX) under petsc environment.

Change #27 with diff file ISSM-27063-27064.diff:
Function name:
M /issm/trunk-jpl/m4/issm_options.m4
Export determination: 6.
Rationale: CHG: adding a libpython location

Change #28 with diff file ISSM-27064-27065.diff:
Function name:
M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-python-3.sh M /issm/trunk-jpl/src/wrappers/matlab/Makefile.am M /issm/trunk-jpl/src/wrappers/python/Makefile.am
Export determination: 6.
Rationale: BUG: Was not catching certain errors during testing of binaries; needed to explicitly link to libbacktrace on newer versions of GCC on Linux

Change #29 with diff file ISSM-27085-27086.diff:
Function name:
M /issm/trunk-jpl/externalpackages/sqlite/install.sh
Export determination: 6.
Rationale: CHG: Support for QGIS

Change #30 with diff file ISSM-27086-27087.diff:

Function name:

M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-python-3.sh

Export determination: 6.

Rationale: CHG: Packaging PROJ share directory

Change #31 with diff file ISSM-27087-27088.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: fixes to caxis plotting and issues with P2 elements

Change #32 with diff file ISSM-27088-27089.diff:

Function name:

M /issm/trunk-jpl/src/m/plot/plot_BC.py A /issm/trunk-jpl/src/m/plot/plot_edgeoverlay.py
M /issm/trunk-jpl/src/m/plot/plot_icefront.py

Export determination: 6.

Rationale: NEW: new capability for front and BCs plotting and experimental plotter for GLADS channels

Change #33 with diff file ISSM-27089-27090.diff:

Function name:

M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-python-3.sh M /issm/trunk-jpl/src/m/modules/CoordTransform.m

Export determination: 6.

Rationale: CHG: Packaging PROJ share directory

Change #34 with diff file ISSM-27096-27097.diff:

Function name:

M /issm/trunk-jpl/packagers/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/packagers/linux/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/packagers/linux/package-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/packagers/mac/package-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/packagers/mac/package-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/packagers/mac/package-issm-mac-binaries-python-3.sh

Export determination: 6.

Rationale: BUG: Packaging PROJ share directory

Change #35 with diff file ISSM-27097-27098.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SealevelchangeAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp M /issm/trunk-jpl/src/c/classes/GrdLoads.cpp M /issm/trunk-jpl/src/c/cores/sealevelchange_core.cpp M /issm/trunk-jpl/src/c/modules/ModelProcessor/C

Export determination: 6.

Rationale: CHG: fixing leaks.

Change #36 with diff file ISSM-27098-27099.diff:

Function name:

M /issm/trunk-jpl/packagers/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/packagers/linux/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/packagers/linux/package-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/packagers/mac/package-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/packagers/mac/package-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/packagers/mac/package-issm-mac-binaries-python-3.sh M /issm/trunk-jpl/src/c/analyses/SealevelchangeAnalysis.cpp

Export determination: 6.

Rationale: BUG: Missing return type on destructor; missing recursive flag for call to copy

Change #37 with diff file ISSM-27099-27100.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: Destructors cannot have return types (oops)

Change #38 with diff file ISSM-27100-27101.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SealevelchangeAnalysis.h

Export determination: 6.

Rationale: BUG: Missing destructor declaration.

Change #39 with diff file ISSM-27101-27102.diff:

Function name:

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

jpl/src/c/analyses/SealevelchangeAnalysis.h M /issm/trunk-jpl/src/c/cores/sealevelchange_core.cpp

Export determination: 6.

Rationale: BUG: Changed deconstructor into static cleanup method

Change #40 with diff file ISSM-27102-27103.diff:

Function name:

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

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

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/LevelsetAnalysis.cpp

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

jpl/src/c/analyses/OceantransportAnalysis.cpp M /issm/trunk-jpl/src/c/analyses/SamplingAnalysis.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/StressbalanceVerticalAnal

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

M /issm/trunk-jpl/src/c/classes/Dakota/IssmDirectApplicInterface.h M /issm/trunk-

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

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

M /issm/trunk-jpl/src/c/classes/Misfit.cpp M /issm/trunk-jpl/src/c/classes/Node.cpp

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

M /issm/trunk-jpl/src/c/classes/gauss/GaussSeg.cpp M /issm/trunk-jpl/src/c/classes/matrix/ElementMatrix

M /issm/trunk-jpl/src/c/cores/ResetBoundaryConditions.cpp M /issm/trunk-

jpl/src/c/cores/adgradient_core.cpp M /issm/trunk-jpl/src/c/cores/control_core.cpp

M /issm/trunk-jpl/src/c/cores/dakota_core.cpp M /issm/trunk-jpl/src/c/cores/esa_core.cpp

M /issm/trunk-jpl/src/c/cores/groundingline_core.cpp M /issm/trunk-jpl/src/c/cores/hydrology_core.cpp

M /issm/trunk-jpl/src/c/cores/masstransport_core.cpp M /issm/trunk-jpl/src/c/cores/oceantransport_core.cp

M /issm/trunk-jpl/src/c/cores/sampling_core.cpp M /issm/trunk-jpl/src/c/cores/smb_core.cpp
M /issm/trunk-jpl/src/c/cores/steadystate_core.cpp M /issm/trunk-jpl/src/c/cores/stressbalance_core.cpp
M /issm/trunk-jpl/src/c/cores/thermal_core.cpp M /issm/trunk-jpl/src/c/cores/transient_core.cpp
M /issm/trunk-jpl/src/c/main/issm_ocean.cpp M /issm/trunk-jpl/src/c/main/issm_slc.cpp
M /issm/trunk-jpl/src/c/main/kriging.cpp M /issm/trunk-jpl/src/c/modules/AllocateSystemMatrices/AllocateSystemMatrices.cpp
M /issm/trunk-jpl/src/c/modules/AverageOntoPartition/AverageOntoPartition.cpp
M /issm/trunk-jpl/src/c/modules/ElementCoordinates/ElementCoordinates.cpp
M /issm/trunk-jpl/src/c/modules/GetVectorFromInputs/GetVectorFromInputs.cpp
M /issm/trunk-jpl/src/c/modules/GiaDeflectionCorex/GiaDeflectionCorex.cpp
M /issm/trunk-jpl/src/c/modules/GradJx/GradJx.cpp M /issm/trunk-jpl/src/c/modules/GroundinglineMigration/GroundinglineMigration.cpp
M /issm/trunk-jpl/src/c/modules/InputUpdateFromDakota/InputUpdateFromDakota.cpp
M /issm/trunk-jpl/src/c/modules/InputUpdateFromVectorDakota/InputUpdateFromVectorDakota.cpp
M /issm/trunk-jpl/src/c/modules/IOModelToConstraints/IOModelToConstraints.cpp
M /issm/trunk-jpl/src/c/modules/MeshPartition/MeshPartition.h M /issm/trunk-jpl/src/c/modules/MeshProfileIntersection/MeshProfileIntersection.cpp M /issm/trunk-jpl/src/c/modules/ModelProcessor/Autodiff/CreateParametersAutodiff.cpp M /issm/trunk-jpl/src/c/modules/ModelProcessor/CreateElementsVerticesAndMaterials.cpp
M /issm/trunk-jpl/src/c/modules/ModelProcessor/CreateOutputDefinitions.cpp
M /issm/trunk-jpl/src/c/modules/PointCloudFindNeighbors/PointCloudFindNeighbors.cpp
M /issm/trunk-jpl/src/c/modules/ReduceLoad/ReduceLoad.cpp M /issm/trunk-jpl/src/c/modules/UpdateDynamicConstraints/UpdateDynamicConstraints.cpp
M /issm/trunk-jpl/src/c/modules/VertexCoordinates/VertexCoordinates.cpp
M /issm/trunk-jpl/src/c/shared/Threads/LaunchThread.cpp M /issm/trunk-jpl/src/c/shared/Triangle/TriangleUtils.cpp M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence_hydrothermal_nonlinear.cpp
M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence_thermal_nonlinear.cpp
M /issm/trunk-jpl/src/c/toolkits/issm/IssmMpiDenseMat.h M /issm/trunk-jpl/src/c/toolkits/issm/IssmMpiSparseMat.h M /issm/trunk-jpl/src/c/toolkits/issm/IssmMpiVec.h M /issm/trunk-jpl/src/c/toolkits/issm/IssmToolkitUtils.cpp
M /issm/trunk-jpl/src/c/toolkits/mpi/commops/DetermineLocalSize.cpp M /issm/trunk-jpl/src/c/toolkits/objects/Matrix.h M /issm/trunk-jpl/src/c/toolkits/objects/Vector.h
M /issm/trunk-jpl/src/c/toolkits/petsc/objects/PetscSolver.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/MatMultPatch.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/VecToMat.cpp
Export determination: 6.
Rationale: CHG: typo: ressources -> resources

Change #41 with diff file ISSM-27105-27106.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/sealevelchange_core.cpp

Export determination: 6.

Rationale: BUG: Removing call to cleanup method (for now)

Change #42 with diff file ISSM-27107-27108.diff:

Function name:

M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-matlab.sh

Export determination: 6.

Rationale: BUG: Incorrect path to external package

Change #43 with diff file ISSM-27109-27110.diff:

Function name:

M /issm/trunk-jpl/jenkins/ross-debian_linux-javascript

Export determination: 6.

Rationale: BUG: Need to allow for globals in JavaScript build until we find a way to strip them entirely

Change #44 with diff file ISSM-27111-27112.diff:

Function name:

M /issm/trunk-jpl/package/linux/complete-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/package/linux/complete-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/package/linux/complete-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/package/mac/commit_for_signing-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package/mac/commit_for_signing-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package/mac/commit_for_signing-issm-mac-binaries-python-3.sh M /issm/trunk-jpl/package/mac/complete-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package/mac/complete-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package/mac/complete-issm-mac-binaries-python-3.sh M /issm/trunk-jpl/package/mac/sign-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package/mac/sign-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package/mac/sign-issm-mac-binaries-python-3.sh M /issm/trunk-jpl/package/mac/transfer-issm-mac-binaries.sh

Export determination: 6.

Rationale: CHG: Need to add trust-server-cert option to svn update; typos

Change #45 with diff file ISSM-27112-27113.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: add default 2d mesh options same as plot_mesh.m

Change #46 with diff file ISSM-27113-27114.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Inputs/ArrayInput.cpp M /issm/trunk-jpl/src/c/classes/Inputs/Inputs.cpp

Export determination: 6.

Rationale: NEW: changes to allow restart with ArrayInputs

Change #47 with diff file ISSM-27115-27116.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test2002.py M /issm/trunk-jpl/test/NightlyRun/test2006.py

M /issm/trunk-jpl/test/NightlyRun/test417.py M /issm/trunk-jpl/test/NightlyRun/test440.py

M /issm/trunk-jpl/test/NightlyRun/test446.py

Export determination: 6.

Rationale: CHG: Syntax and matlab consistency fixes

Change #48 with diff file ISSM-27116-27117.diff:

Function name:

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

Export determination: 6.

Rationale: NEW: adding checking procedure for nc export in matlab runmes

Change #49 with diff file ISSM-27117-27118.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: reverting preceding commit

Change #50 with diff file ISSM-27118-27119.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test446.py

Export determination: 6.

Rationale: BUG: spelling error

Change #51 with diff file ISSM-27119-27120.diff:

Function name:

M /issm/trunk-jpl/src/m/coordsystems/epsg2proj.py M /issm/trunk-jpl/src/m/coordsystems/gdaltransform.py

M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.py M /issm/trunk-jpl/src/m/solve/waitonlock.py

Export determination: 6.

Rationale: BUG: fixing some subprocess calls to return strings rather than bytes

Change #52 with diff file ISSM-27120-27121.diff:

Function name:

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

Export determination: 6.

Rationale: BUG:Fix in edges_required formatting

Change #53 with diff file ISSM-27121-27122.diff:

Function name:

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

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/m/classes/calvingparameterization.cpp

Export determination: 6.

Rationale: CHG: rewrite calving parameterization with tanh and linear functions

Change #54 with diff file ISSM-27122-27123.diff:

Function name:

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

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

Export determination: 6.

Rationale: BUG: synchronize Enums manually

Change #55 with diff file ISSM-27123-27124.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: add threshold for bed_jsealevel to have no calving

Change #56 with diff file ISSM-27127-27128.diff:

Function name:

M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/package/mac/test-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package/mac/test-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package/mac/test-issm-mac-binaries-python-3.sh

Export determination: 6.

Rationale: CHG: Printing log if one or more tests fail when packaging

Change #57 with diff file ISSM-27128-27129.diff:

Function name:

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

A /issm/trunk-jpl/src/c/classes/Inputs/IntArrayInput.cpp A /issm/trunk-jpl/src/c/classes/Inputs/IntArrayInput.h

Export determination: 6.

Rationale: NEW: IntArrayInput class for int* inputs

Change #58 with diff file ISSM-27129-27130.diff:

Function name:

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

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

Export determination: 6.

Rationale: BUG: missing Enum

Change #59 with diff file ISSM-27130-27131.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: missing reference in Makefile for new IntArrayInput files

Change #60 with diff file ISSM-27131-27132.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/SealevelchangeAnalysis.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/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/GrdLoads.cpp
M /issm/trunk-jpl/src/c/classes/SealevelGeometry.cpp M /issm/trunk-jpl/src/c/classes/SealevelGeometry.h
M /issm/trunk-jpl/src/c/cores/sealevelchange_core.cpp M /issm/trunk-jpl/src/c/shared/Enum/Enum.vim
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/Enumjl.vim M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.c
M /issm/trunk-jpl/src/m/classes/solidearthsettings.m
Export determination: 6.
Rationale: CHG: Memory and runtime optimization of sealevelchange core.

Change #61 with diff file ISSM-27132-27133.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: BUG: missing Enum

Change #62 with diff file ISSM-27133-27134.diff:

Function name:
M /issm/trunk-jpl/test/NightlyRun/test2010.m M /issm/trunk-jpl/test/NightlyRun/test2013.m
Export determination: 6.
Rationale: CHG: Keeping up with new unit of measurement of SealevelBarystati-
cIceLoad ouput

Change #63 with diff file ISSM-27142-27143.diff:

Function name:
M /issm/trunk-jpl/test/Archives/Archive2002.arch M /issm/trunk-jpl/test/Archives/Archive2005.arch
M /issm/trunk-jpl/test/Archives/Archive2008.arch M /issm/trunk-jpl/test/Archives/Archive2010.arch
M /issm/trunk-jpl/test/Archives/Archive2090.arch M /issm/trunk-jpl/test/Archives/Archive2091.arch
Export determination: 6.
Rationale: CHG: Updated archives

Change #64 with diff file ISSM-27143-27144.diff:

Function name:
M /issm/trunk-jpl/src/m/contrib/defleurian/paraview/exportVTK.py A /issm/trunk-

jpl/src/m/contrib/defleurian/paraview/exportVTU.py
Export determination: 6.
Rationale: NEW: shifting paraview export to VTU

Change #65 with diff file ISSM-27144-27145.diff:
Function name:
D /issm/trunk-jpl/src/m/contrib/defleurian/paraview/enveloppeVTK.m D /issm/trunk-jpl/src/m/contrib/defleurian/paraview/enveloppeVTK.py
Export determination: 6.
Rationale: NEW: cleaning envelope exports

Change #66 with diff file ISSM-27145-27146.diff:
Function name:
M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.m
Export determination: 6.
Rationale: BUG: gmsh not found by gmshplanet in distributables (still need to update Python function)

Change #67 with diff file ISSM-27146-27147.diff:
Function name:
D /issm/trunk-jpl/src/c/modules/FourierLoveCorex M /issm/trunk-jpl/src/c/modules/modules.h
Export determination: 6.
Rationale: CHG: FourierLoveCorex not needed anymore

Change #68 with diff file ISSM-27147-27148.diff:
Function name:
M /issm/trunk-jpl/src/m/mesh/ComputeHessian.py
Export determination: 6.
Rationale: BUG: fixing tiling shapes in CComputeHessian

Change #69 with diff file ISSM-27148-27149.diff:
Function name:
M /issm/trunk-jpl/packagers/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-

jpl/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/package-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/package-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package-issm-mac-binaries-python-3.sh M /issm/trunk-jpl/package-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package-issm-mac-binaries-python-3.sh

Export determination: 6.

Rationale: BUG: Better parsing of failures in log files; printing of log files on failure

Change #70 with diff file ISSM-27149-27150.diff:

Function name:

M /issm/trunk-jpl/externalpackages/gdal/install-3-python-static.sh M /issm/trunk-jpl/externalpackages/gdal/install-3-python.sh M /issm/trunk-jpl/externalpackages/gdal/install-3-static.sh M /issm/trunk-jpl/externalpackages/gdal/install-3.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4-static.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4.sh M /issm/trunk-jpl/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/package-issm-linux-binaries-python-3.sh

Export determination: 6.

Rationale: BUG: Correcting some static linking in distributables; syntax of sed call under Linux in packaging scripts

Change #71 with diff file ISSM-27150-27151.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: force dakota compile with python2 and throw error if not found

Change #72 with diff file ISSM-27151-27152.diff:

Function name:

M /issm/trunk-jpl/etc/environment.sh M /issm/trunk-jpl/externalpackages/gmt/configs/6/static/cmake/modules/FindNETCDF.cmake M /issm/trunk-jpl/externalpackages/gmt/configs/6/static/cmake/modules/FindNETCDF.cmake M /issm/trunk-jpl/externalpackages/gmt/install-6-mac-static.sh

Export determination: 6.

Rationale: BUG: Correcting some static linking in distributables; typo

Change #73 with diff file ISSM-27152-27153.diff:

Function name:

M /issm/trunk-jpl/externalpackages/gdal/install-3-python-static.sh M /issm/trunk-jpl/externalpackages/gdal/install-3-static.sh

Export determination: 6.

Rationale: BUG: Correcting some static linking in distributables

Change #74 with diff file ISSM-27153-27154.diff:

Function name:

M /issm/trunk-jpl/externalpackages/curl/install-7-linux-static.sh M /issm/trunk-jpl/externalpackages/curl/install-7-mac-static.sh

Export determination: 6.

Rationale: BUG: Correcting some static linking in distributables

Change #75 with diff file ISSM-27154-27155.diff:

Function name:

M /issm/trunk-jpl/m4/analyses.m4 M /issm/trunk-jpl/src/c/Makefile.am A /issm/trunk-jpl/src/c/analyses/AgeAnalysis.cpp A /issm/trunk-jpl/src/c/analyses/AgeAnalysis.h

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

M /issm/trunk-jpl/src/c/cores/transient_core.cpp M /issm/trunk-jpl/src/c/shared/Enum/Enum.vim

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

M /issm/trunk-jpl/src/c/shared/Enum/Synchronize.sh

Export determination: 6.

Rationale: CHG: starting age model implementation

Change #76 with diff file ISSM-27155-27156.diff:

Function name:

A /issm/trunk-jpl/src/m/classes/age.m M /issm/trunk-jpl/src/m/classes/transient.js

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

Export determination: 6.

Rationale: CHG: preparing age model :

Change #77 with diff file ISSM-27156-27157.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: added isage flag to transient

Change #78 with diff file ISSM-27157-27158.diff:

Function name:

M /issm/trunk-jpl/src/c/toolkits/petsc/objects/PetscSolver.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/ISSMToPetscInsertMode.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/ISSMToPetscMatrixType.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/ISSMToPetscNormMode.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/KSPFree.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/MatFree.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/MatMultPatch.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/NewMat.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/NewVec.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/PetscOptionsDetermineSolverType.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/VecFree.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/petscpatches.h M /issm/trunk-jpl/src/c/toolkits/petsc/petscincludes.h

Export determination: 6.

Rationale: CHG: simplifying all Petsc includes: only PetscKSP needs to be included now

Change #79 with diff file ISSM-27158-27159.diff:

Function name:

M /issm/trunk-jpl/etc/environment.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-mac.sh M /issm/trunk-jpl/externalpackages/gmt/configs/6/static/linux/cmake/ConfigUser.static.cmake M /issm/trunk-jpl/externalpackages/gmt/configs/6/static/mac/cmake/ConfigUser.static.cmake M /issm/trunk-jpl/m4/issm_options.m4 M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-matlab.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-2.sh M /issm/trunk-jpl/package/linux/package-issm-linux-binaries-python-3.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-matlab.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-python-2.sh M /issm/trunk-jpl/package/mac/package-issm-mac-binaries-python-3.sh M /issm/trunk-jpl/src/m/coordsystems/gmtmaskparallel.m M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmsh.m M /issm/trunk-jpl/src/m/modules/CoordTransform.m

Export determination: 6.

Rationale: CHG: Fixes for distributable using Solid Earth capabilities; cleanup

Change #80 with diff file ISSM-27159-27160.diff:

Function name:

A /issm/trunk-jpl/externalpackages/gmsh/install-4-linux-static.sh (from /issm/trunk-jpl/externalpackages/gmsh/install-4-static.sh:27158) A /issm/trunk-jpl/externalpackages/gmsh/install-4-mac-static.sh (from /issm/trunk-jpl/externalpackages/gmsh/install-4-static.sh:27157) D /issm/trunk-jpl/externalpackages/gmsh/install-4-static.sh M /issm/trunk-jpl/jenkins/pine_island-mac-binaries-matlab M /issm/trunk-jpl/jenkins/pine_island-mac-binaries-python-2 M /issm/trunk-jpl/jenkins/pine_island-mac-binaries-python-3 M /issm/trunk-jpl/jenkins/ross-debian_linux-binaries-matlab M /issm/trunk-jpl/jenkins/ross-debian_linux-binaries-python-2 M /issm/trunk-jpl/jenkins/ross-debian_linux-binaries-python-3

Export determination: 6.

Rationale: CHG: Need to split static version of Gmsh install script into macOS and Linux copies

Change #81 with diff file ISSM-27160-27161.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/StochasticForcingx/StochasticForcingx.cpp M /issm/trunk-jpl/test/Archives/Archive621.arch

Export determination: 6.

Rationale: CHG: removed constraint of positive water pressure in Stochastic water pressure

Change #82 with diff file ISSM-27161-27162.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Loads/Friction.cpp M /issm/trunk-jpl/src/c/modules/StochasticForcingx/StochasticForcingx.cpp M /issm/trunk-jpl/src/c/shared/Enum/Enum.vim 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/Enumjl.v M /issm/trunk-jpl/src/c/shared/Enum/StringToEnumx.cpp M /issm/trunk-jpl/src/m/classes/stochasticforcing M /issm/trunk-jpl/src/m/classes/stochasticforcing.py

Export determination: 6.

Rationale: CHG: allowing stochastic water pressure for frictionschoof

Change #83 with diff file ISSM-27162-27163.diff:

Function name:

M /issm/trunk-jpl/etc/environment.sh M /issm/trunk-jpl/externalpackages/mplapack/install-1-linux.sh A /issm/trunk-jpl/externalpackages/mplapack/install-2-linux.sh (from /issm/trunk-jpl/externalpackages/mplapack/install-1-linux.sh:27161) M /issm/trunk-

jpl/jenkins/ross-debian_linux-full-mplapack

Export determination: 6.

Rationale: CHG: Support for latest version of MPLAPACK; set BLAS_ROOT if user has external copy of LAPACK that installs libblas

Change #84 with diff file ISSM-27163-27164.diff:

Function name:

M /issm/trunk-jpl/src/m/modules/CoordTransform.m

Export determination: 6.

Rationale: BUG: Return from what function needs to be tested

Change #85 with diff file ISSM-27164-27165.diff:

Function name:

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

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

Export determination: 6.

Rationale: CHG frictioncoulomb uses effective pressure instead of thickness above floatation

Change #86 with diff file ISSM-27165-27166.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Loads/Friction.cpp M /issm/trunk-jpl/src/c/modules/StochasticForcingx/StochasticForcingx.m

M /issm/trunk-jpl/src/c/shared/Enum/Enum.vim 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/Enumjl.v

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

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

Export determination: 6.

Rationale: CHG: allowing stochastic water pressure for frictioncoulomb

Change #87 with diff file ISSM-27166-27167.diff:

Function name:

A /issm/trunk-jpl/src/c/solutionsequences/solutionsequence_hydro_singleloop.cpp

Export determination: 6.

Rationale: NEW:adding a singleloop hydrology DC for testing

Change #88 with diff file ISSM-27167-27168.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/runme.py M /issm/trunk-jpl/test/NightlyRun/test2004.m
M /issm/trunk-jpl/test/NightlyRun/test2004.py M /issm/trunk-jpl/test/NightlyRun/test243.py
M /issm/trunk-jpl/test/NightlyRun/test252.py

Export determination: 6.

Rationale: CHG: minor formatting

Change #89 with diff file ISSM-27168-27169.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/Reducevectortofx/Reducevectortofx.cpp M
/issm/trunk-jpl/src/c/solutionsequences/convergence.cpp

Export determination: 6.

Rationale: CHG: modification needed for hydro convergence

Change #90 with diff file ISSM-27169-27170.diff:

Function name:

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

Export determination: 6.

Rationale: NEW: add Tikhonov regularization for AD inversion

Change #91 with diff file ISSM-27170-27171.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/Reducevectortofx/Reducevectortofx.cpp M
/issm/trunk-jpl/src/c/solutionsequences/convergence.cpp

Export determination: 6.

Rationale: BUG: Reverting Basile's commit temporarily

Change #92 with diff file ISSM-27171-27172.diff:

Function name:

M /issm/trunk-jpl/src/c/solutionsequences/convergence.cpp

Export determination: 6.

Rationale: CHG: adding a small number to the denominator in case it is 0

Change #93 with diff file ISSM-27172-27173.diff:

Function name:

M /issm/trunk-jpl/examples/UncertaintyQuantification/runme.m M /issm/trunk-jpl/src/m/classes/clusters/generic_static.m M /issm/trunk-jpl/src/m/classes/clusters/generic_static.py

Export determination: 6.

Rationale: BUG: Distribution copy of generic class missing nprocs method; note added to UQ example about needing to run Pig example first

Change #94 with diff file ISSM-27173-27174.diff:

Function name:

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

Export determination: 6.

Rationale: CHG:syntax fix

Change #95 with diff file ISSM-27174-27175.diff:

Function name:

M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.m M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.py

Export determination: 6.

Rationale: BUG:some fixes and path discovery addition

Change #96 with diff file ISSM-27175-27176.diff:

Function name:

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

Export determination: 6.

Rationale: BUG:some hydro related fixes

Change #97 with diff file ISSM-27176-27177.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/Reducevectortofx/Reducevectortofx.cpp M /issm/trunk-jpl/src/c/solutionsequences/convergence.cpp

Export determination: 6.

Rationale: CHG: changes in the way we deal with convergence in HydroDC

Change #98 with diff file ISSM-27177-27178.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/cores/hydrology_core.cpp
M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence_hydro_nonlinear.cpp
M /issm/trunk-jpl/src/m/classes/hydrologydc.m M /issm/trunk-jpl/src/m/classes/hydrologydc.py

Export determination: 6.

Rationale: NEW: implementing addaptative stepping in Hydro

Change #99 with diff file ISSM-27178-27179.diff:

Function name:

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/timesteppingadaptive.m M /issm/trunk-jpl/src/m/classes/timesteppingadap

Export determination: 6.

Rationale: NEW: adding possibility to average forcing between two model times

Change #100 with diff file ISSM-27179-27180.diff:

Function name:

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

Export determination: 6.

Rationale: NEW: adding enums related to previous commits

Change #101 with diff file ISSM-27180-27181.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Inputs/TransientInput.cpp

Export determination: 6.

Rationale: NEW: adding possibility to average forcing between two model times

Change #102 with diff file ISSM-27181-27182.diff:

Function name:

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

Export determination: 6.

Rationale: CHG:fix to parameter creation for Hydro

Change #103 with diff file ISSM-27182-27183.diff:

Function name:

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

Export determination: 6.

Rationale: NEW:changes related to the adaptative stepping

Change #104 with diff file ISSM-27183-27184.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive900.arch

Export determination: 6.

Rationale: CHG: updating archive 900, to cope with slight convergence changes

Change #105 with diff file ISSM-27184-27185.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/hydrology_core.cpp

Export determination: 6.

Rationale: BUG: redefining AddResult in Hydro

Change #106 with diff file ISSM-27185-27186.diff:

Function name:

M /issm/trunk-jpl/src/c/classes/Inputs/TransientInput.cpp

Export determination: 6.

Rationale: BUG: fixing AD, does not want a subtraction in function call

Change #107 with diff file ISSM-27186-27187.diff:

Function name:

M /issm/trunk-jpl/src/c/cores/hydrology_core.cpp A /issm/trunk-jpl/test/Archives/Archive906.arch

A /issm/trunk-jpl/test/NightlyRun/test906.m A /issm/trunk-jpl/test/NightlyRun/test906.py

Export determination: 6.

Rationale: NEW:adding a NR for hydro adaptative stepping (and minor fix)

Change #108 with diff file ISSM-27187-27188.diff:

Function name:

M /issm/trunk-jpl/externalpackages/dakota/install-6.2-linux.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-mac.sh

Export determination: 6.

Rationale: CHG: Workaround for machines that do not have Python 2

Change #109 with diff file ISSM-27188-27189.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: Bad path

Change #110 with diff file ISSM-27189-27190.diff:

Function name:

M /issm/trunk-jpl/externalpackages/gdal/install-3-python-static.sh M /issm/trunk-jpl/externalpackages/gdal/install-3-python.sh M /issm/trunk-jpl/externalpackages/gdal/install-3-static.sh M /issm/trunk-jpl/externalpackages/gdal/install-3.sh

Export determination: 6.

Rationale: CHG: Upgrading to latest version of GDAL

Change #111 with diff file ISSM-27190-27191.diff:

Function name:

D /issm/trunk-jpl/src/c/solutionsequences/solutionsequence_hydro_singleloop.cpp

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

Export determination: 6.

Rationale: CHG: removing singleloop hydro solution sequence which proved useless

Change #112 with diff file ISSM-27191-27192.diff:

Function name:

M /issm/trunk-jpl/externalpackages/dakota/install-6.2-mac-static.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-mac.sh A /issm/trunk-jpl/externalpackages/gmsh/install-4-linux.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4-mac-static.sh A /issm/trunk-jpl/externalpackages/gmsh/install-4-mac.sh D /issm/trunk-jpl/externalpackages/gmsh/install-

4.sh M /issm/trunk-jpl/externalpackages/gmt/install-6-mac-static.sh M /issm/trunk-jpl/jenkins/aws-amazon_linux-solid_earth M /issm/trunk-jpl/jenkins/pine_island-mac-dakota M /issm/trunk-jpl/jenkins/pine_island-mac-examples M /issm/trunk-jpl/jenkins/pine_island-mac-full M /issm/trunk-jpl/jenkins/pine_island-mac-full-valgrind M /issm/trunk-jpl/jenkins/pine_island-mac-solid_earth M /issm/trunk-jpl/jenkins/pine_island-mac-solid_earth-lambert M /issm/trunk-jpl/jenkins/pleiades-solid_earth M /issm/trunk-jpl/jenkins/ross-debian_linux-dakota M /issm/trunk-jpl/jenkins/ross-debian_linux-full M /issm/trunk-jpl/jenkins/ross-debian_linux-full-mplapack M /issm/trunk-jpl/jenkins/ross-debian_linux-full-valgrind M /issm/trunk-jpl/jenkins/ross-debian_linux-gia M /issm/trunk-jpl/jenkins/ross-debian_linux-python M /issm/trunk-jpl/jenkins/ross-debian_linux-solid_earth
 Export determination: 6.
 Rationale: BUG: libgfortran not being found under bash on macOS (grep -i egrep; split gmsh into mac and linux install scripts)

Change #113 with diff file ISSM-27192-27193.diff:

Function name:

A /issm/trunk-jpl/externalpackages/petsc/install-3.17-pleiades.sh

Export determination: 6.

Rationale: CHG: added 3.17 for pleiades

Change #114 with diff file ISSM-27193-27194.diff:

Function name:

M /issm/trunk-jpl/src/c/solutionsequences/solutionsequence_hydro_nonlinear.cpp

Export determination: 6.

Rationale: BUG: better management of vector sizes

Change #115 with diff file ISSM-27194-27195.diff:

Function name:

M /issm/trunk-jpl/externalpackages/dakota/install-6.2-linux-static.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-mac-static.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4-linux-static.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4-linux.sh M /issm/trunk-jpl/externalpackages/gmt/install-6-linux-static.sh

Export determination: 6.

Rationale: BUG: Find libgfortran on Linux.

Change #116 with diff file ISSM-27195-27196.diff:

Function name:

M /issm/trunk-jpl/externalpackages/gdal/install-3-python-static.sh M /issm/trunk-jpl/externalpackages/gdal/install-3-python.sh

Export determination: 6.

Rationale: BUG: Use python3 for newest version of GDAL

Change #117 with diff file ISSM-27196-27197.diff:

Function name:

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

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

M /issm/trunk-jpl/test/NightlyRun/test244.m M /issm/trunk-jpl/test/NightlyRun/test244.py

M /issm/trunk-jpl/test/NightlyRun/test252.m M /issm/trunk-jpl/test/NightlyRun/test252.py

Export determination: 6.

Rationale: CHG: make GEMB swId default value 0

Change #118 with diff file ISSM-27197-27198.diff:

Function name:

M /issm/trunk-jpl/examples/Greenland/runme.m M /issm/trunk-jpl/examples/Greenland/runme.py

Export determination: 6.

Rationale: CHG: Updated runme with changes from Nicole

Change #119 with diff file ISSM-27198-27199.diff:

Function name:

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

Export determination: 6.

Rationale: NEW: adding some plotting capacity

Change #120 with diff file ISSM-27199-27200.diff:

Function name:

M /issm/trunk-jpl/src/m/contrib/defleurian/paraview/exportVTU.py

Export determination: 6.

Rationale: BUG: minor fix for VTU export

Change #121 with diff file ISSM-27200-27201.diff:

Function name:

M /issm/trunk-jpl/src/m/mesh/planet/gmsh/gmshplanet.m

Export determination: 6.

Rationale: BUG: Path to gmsh executable

Change #122 with diff file ISSM-27201-27202.diff:

Function name:

M /issm/trunk-jpl/src/m/coordsystems/gmtmask.m M /issm/trunk-jpl/src/m/coordsystems/gmtmask.py

M /issm/trunk-jpl/src/m/coordsystems/gmtmaskparallel.m

Export determination: 6.

Rationale: BUG: gmt executable syntax

Change #123 with diff file ISSM-27202-27203.diff:

Function name:

M /issm/trunk-jpl/etc/environment.sh M /issm/trunk-jpl/externalpackages/autotools/install-linux.sh M /issm/trunk-jpl/externalpackages/boost/install-1.7-mac.sh M /issm/trunk-jpl/externalpackages/chaco/install.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-linux-static.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-linux.sh M /issm/trunk-jpl/externalpackages/dakota/install-6.2-mac-static.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4-linux-static.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4-linux.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4-mac-static.sh M /issm/trunk-jpl/externalpackages/gmsh/install-4-mac.sh M /issm/trunk-jpl/externalpackages/gmt/install-6-linux-static.sh M /issm/trunk-jpl/externalpackages/gmt/install-6-linux.sh M /issm/trunk-jpl/externalpackages/gmt/install-6-mac-static.sh M /issm/trunk-jpl/externalpackages/gmt/install-6-mac.sh M /issm/trunk-jpl/externalpackages/gsl/install.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.12-linux.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.12-lonestar.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.12-mac.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.12-win-msys2-gcc-msmpi.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.13-pleiades.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.14-discover.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.14-greenplanet.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.14-linux.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.14-mac-nohdf5.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.14-mac.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.14-pleiades.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.14-tetralith.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.14-win-msys2-mingw-msmpi.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.15-babylon.sh

M /issm/trunk-jpl/externalpackages/petsc/install-3.15-discovery.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.15-pleiades.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.16-linux.sh A /issm/trunk-jpl/externalpackages/petsc/install-3.16-mac.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.16-pleiades.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.17-mac-intel.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.17-mac-m1-static.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.17-mac-m1.sh M /issm/trunk-jpl/externalpackages/petsc/install-3.17-pleiades.sh M /issm/trunk-jpl/jenkins/examples_tests.sh M /issm/trunk-jpl/jenkins/jenkins.sh M /issm/trunk-jpl/jenkins/pine_island-mac-full M /issm/trunk-jpl/m4/issm_options.m4 M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/m/dev/devpath.py M /issm/trunk-jpl/test/NightlyRun/IdFromString.py M /issm/trunk-jpl/test/NightlyRun/runme.m M /issm/trunk-jpl/test/NightlyRun/runme.py
 Export determination: 6.
 Rationale: CHG: Varied clean up

Change #124 with diff file ISSM-27203-27204.diff:

Function name:

M /issm/trunk-jpl/src/c/analyses/LevelsetAnalysis.cpp M /issm/trunk-jpl/src/c/classes/Elements/Tria.cpp
 M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/m/classes/calvingparameter

Export determination: 6.

Rationale: CHG: add a scaling of calving rate based on ice velocity

Change #125 with diff file ISSM-27209-27210.diff:

Function name:

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

Export determination: 6.

Rationale: BUG: Reverting last change because of test set partitioning bug

Change #126 with diff file ISSM-27225-27226.diff:

Function name:

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

Export determination: 6.

Rationale: CHG: cleaned up SHAKTI code

Change #127 with diff file ISSM-27226-27227.diff:

Function name:

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

M /issm/trunk-jpl/src/c/shared/Enum/EnumDefinitions.h M /issm/trunk-jpl/src/m/classes/calvingparameter

M /issm/trunk-jpl/src/m/classes/initialization.m M /issm/trunk-jpl/src/m/parameterization/setflowequation.

Export determination: 6.

Rationale: CHG: add upper and lower bounds in calving parameterization

Change #128 with diff file ISSM-27227-27228.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/SurfaceMassBalancex/Gembx.cpp M /issm/trunk-

jpl/src/c/modules/SurfaceMassBalancex/SurfaceMassBalancex.h

Export determination: 6.

Rationale: CHG: make GEMB cell merging its own function