

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11286-11300

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Program: ISSM: Ice Sheet System Model

Person Requesting or Initiating Export: Dr. Eric Larour

Date Received: Feb-23-2012

Document Title/Description: ISSM changes from revision 11286 to revision 11300

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:** Feb-23-2012



JPL Export Administration Form TBS June 29, 2011

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)

Change #1 with diff file ISSM-11286-11287.diff:

Function name:

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

Export determination: 6.

Rationale: header file missing M /issm/trunk-jpl/src/c/Makefile.am and make file missing

Change #2 with diff file ISSM-11287-11288.diff:

Function name:

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

Export determination: 6.

Rationale: and make file missing A /issm/trunk-jpl/src/c/solutions/enthalpy_core_step.cpp
enthalpy core step solution added

Change #3 with diff file ISSM-11288-11289.diff:

Function name:

A /issm/trunk-jpl/src/c/solutions/enthalpy_core_step.cpp

Export determination: 6.

Rationale: enthalpy core step solution added M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp
Better way to set TAO parameters

Change #4 with diff file ISSM-11289-11290.diff:

Function name:

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

Export determination: 6.

Rationale: Better way to set TAO parameters M /issm/trunk-jpl/src/c/objects/Materials/Matpar.cpp
different enthalpy diffusion parameter depending on enthalpy value

Change #5 with diff file ISSM-11290-11291.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Materials/Matpar.cpp

Export determination: 6.

Rationale: different enthalpy diffusion parameter depending on enthalpy value

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

M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/modules/EnumToStringx/EnumToStringx.cpp
M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp M /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.h M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/objects/Elements/Tria.cpp
M /issm/trunk-jpl/src/c/objects/Inputs/ControlInput.cpp M /issm/trunk-jpl/src/c/objects/Inputs/DoubleInput.cpp
A /issm/trunk-jpl/src/c/objects/Inputs/PentaP1Input.cpp (from /issm/trunk-jpl/src/c/objects/Inputs/PentaVertexInput.cpp:11288) A /issm/trunk-jpl/src/c/objects/Inputs/PentaP1Input.h (from /issm/trunk-jpl/src/c/objects/Inputs/PentaVertexInput.h:11288) D /issm/trunk-jpl/src/c/objects/Inputs/PentaVertexInput.cpp D /issm/trunk-jpl/src/c/objects/Inputs/PentaVertexInput.h
A /issm/trunk-jpl/src/c/objects/Inputs/TriaP1Input.cpp (from /issm/trunk-jpl/src/c/objects/Inputs/TriaVertexInput.cpp:11288) A /issm/trunk-jpl/src/c/objects/Inputs/TriaP1Input.h (from /issm/trunk-jpl/src/c/objects/Inputs/TriaVertexInput.h:11288) D /issm/trunk-jpl/src/c/objects/Inputs/TriaVertexInput.cpp D /issm/trunk-jpl/src/c/objects/Inputs/TriaVertexInput.h
M /issm/trunk-jpl/src/c/objects/Materials/Matrice.cpp M /issm/trunk-jpl/src/c/objects/objects.h
moved TriaVertexInput to TriaP1Input and same for Penta

Change #6 with diff file ISSM-11291-11292.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/DataSet.cpp M /issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h
M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/modules/EnumToStringx/EnumToStringx.cpp
M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp M /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.h M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/objects/Elements/Tria.cpp
M /issm/trunk-jpl/src/c/objects/Inputs/ControlInput.cpp M /issm/trunk-jpl/src/c/objects/Inputs/DoubleInput.cpp
A /issm/trunk-jpl/src/c/objects/Inputs/PentaP1Input.cpp (from /issm/trunk-jpl/src/c/objects/Inputs/PentaVertexInput.cpp:11288) A /issm/trunk-jpl/src/c/objects/Inputs/PentaP1Input.h (from /issm/trunk-jpl/src/c/objects/Inputs/PentaVertexInput.h:11288) D /issm/trunk-jpl/src/c/objects/Inputs/PentaVertexInput.cpp D /issm/trunk-jpl/src/c/objects/Inputs/PentaVertexInput.h
A /issm/trunk-jpl/src/c/objects/Inputs/TriaP1Input.cpp (from /issm/trunk-jpl/src/c/objects/Inputs/TriaVertexInput.cpp:11288) A /issm/trunk-jpl/src/c/objects/Inputs/TriaP1Input.h (from /issm/trunk-jpl/src/c/objects/Inputs/TriaVertexInput.h:11288) D /issm/trunk-jpl/src/c/objects/Inputs/TriaVertexInput.cpp D /issm/trunk-jpl/src/c/objects/Inputs/TriaVertexInput.h
M /issm/trunk-jpl/src/c/objects/Materials/Matrice.cpp M /issm/trunk-jpl/src/c/objects/objects.h

Export determination: 6.

Rationale: moved TriaVertexInput to TriaP1Input and same for Penta M /issm/trunk-jpl/src/c/Container/DataSet.cpp M /issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h
M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/modules/EnumToStringx/EnumToStringx.cpp
M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp A /issm/trunk-jpl/src/c/objects/ElementResults/PentaP1ElementResult.cpp (from /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.cpp:11288) A /issm/trunk-jpl/src/c/objects/ElementResults/PentaP1ElementResult.h (from /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.h:11291) D /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.cpp D /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.h A /issm/trunk-jpl/src/c/objects/ElementResults/TriaP1ElementResult.cpp (from /issm/trunk-jpl/src/c/objects/ElementResults/TriaVertexElementResult.cpp:11288) A /issm/trunk-

jpl/src/c/objects/ElementResults/TriaP1ElementResult.h (from /issm/trunk-jpl/src/c/objects/ElementResults/TriaVertexElementResult.h:11288) D /issm/trunk-jpl/src/c/objects/ElementResults/TriaVertexElementResult.cpp D /issm/trunk-jpl/src/c/objects/ElementResults/TriaVertexElementResult.h M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/objects/Elements/Tria.cpp M /issm/trunk-jpl/src/c/objects/Inputs/PentaP1Input.cpp M /issm/trunk-jpl/src/c/objects/Inputs/PentaP1Input.h M /issm/trunk-jpl/src/c/objects/Inputs/TriaP1Input.cpp M /issm/trunk-jpl/src/c/objects/objects.h moved TriaVertexElementResult to TriaP1ElementResult and same for Penta

Change #7 with diff file ISSM-11292-11293.diff:

Function name:

M /issm/trunk-jpl/src/c/Container/DataSet.cpp M /issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/modules/EnumToStringx/EnumToStringx.cpp M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp A /issm/trunk-jpl/src/c/objects/ElementResults/PentaP1ElementResult.cpp (from /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.cpp:11288) A /issm/trunk-jpl/src/c/objects/ElementResults/PentaP1ElementResult.h (from /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.h:11291) D /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.cpp D /issm/trunk-jpl/src/c/objects/ElementResults/PentaVertexElementResult.h A /issm/trunk-jpl/src/c/objects/ElementResults/TriaP1ElementResult.cpp (from /issm/trunk-jpl/src/c/objects/ElementResults/TriaVertexElementResult.cpp:11288) A /issm/trunk-jpl/src/c/objects/ElementResults/TriaP1ElementResult.h (from /issm/trunk-jpl/src/c/objects/ElementResults/TriaVertexElementResult.h:11288) D /issm/trunk-jpl/src/c/objects/ElementResults/TriaVertexElementResult.cpp D /issm/trunk-jpl/src/c/objects/ElementResults/TriaVertexElementResult.h M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/objects/Elements/Tria.cpp M /issm/trunk-jpl/src/c/objects/Inputs/PentaP1Input.cpp M /issm/trunk-jpl/src/c/objects/Inputs/PentaP1Input.h M /issm/trunk-jpl/src/c/objects/Inputs/TriaP1Input.cpp M /issm/trunk-jpl/src/c/objects/objects.h

Export determination: 6.

Rationale: moved TriaVertexElementResult to TriaP1ElementResult and same for Penta M /issm/trunk-jpl/src/c/solvers/solver_nonlinear.cpp in solver_nonlinear, should compute convergence before updating the solution

Change #8 with diff file ISSM-11293-11294.diff:

Function name:

M /issm/trunk-jpl/src/c/solvers/solver_nonlinear.cpp

Export determination: 6.

Rationale: in solver_nonlinear, should compute convergence before updating the solution M /issm/trunk-jpl/src/c/objects/Loads/Riftfront.cpp M /issm/trunk-jpl/src/c/objects/Loads/Riftfront.h minor

Change #9 with diff file ISSM-11294-11295.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Loads/Riftfront.cpp M /issm/trunk-jpl/src/c/objects/Loads/Riftfront.h

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/externalpackages/flaim/install M /issm/trunk-jpl/externalpackages/flaim/install.sh M /issm/trunk-jpl/src/c/Makefile.am A /issm/trunk-jpl/src/c/modules/KMLFileReadx A /issm/trunk-jpl/src/c/modules/KMLFileReadx/KMLFileReadx.cpp (from /issm/trunk-jpl/src/c/modules/KMLMeshWritex/KMLFileReadx.cpp:11159) A /issm/trunk-jpl/src/c/modules/KMLFileReadx/KMLFileReadx.h (from /issm/trunk-jpl/src/c/modules/KMLMeshWritex/KMLFileReadx.h:11159) D /issm/trunk-jpl/src/c/modules/KMLMeshWritex/KMLFileReadx.cpp D /issm/trunk-jpl/src/c/modules/KMLMeshWritex/modules.h A /issm/trunk-jpl/src/c/objects/KML/KML_Unknown.cpp A /issm/trunk-jpl/src/c/objects/KML/KML_Unknown.h M /issm/trunk-jpl/src/c/objects/objects.h A /issm/trunk-jpl/src/mex/KMLFileRead A /issm/trunk-jpl/src/mex/KMLFileRead/KMLFileRead.cpp (from /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLFileRead.cpp:11159) A /issm/trunk-jpl/src/mex/KMLFileRead/KMLFileRead.h (from /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLFileRead.h:11159) D /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLFileRead.cpp D /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLFileRead.h M /issm/trunk-jpl/src/mex/Makefile.am Moved KMLFileRead to its own directory and added KML_Unknown class.

Change #10 with diff file ISSM-11295-11296.diff:

Function name:

M /issm/trunk-jpl/externalpackages/flaim/install M /issm/trunk-jpl/externalpackages/flaim/install.sh M /issm/trunk-jpl/src/c/Makefile.am A /issm/trunk-jpl/src/c/modules/KMLFileReadx A /issm/trunk-jpl/src/c/modules/KMLFileReadx/KMLFileReadx.cpp (from /issm/trunk-jpl/src/c/modules/KMLMeshWritex/KMLFileReadx.cpp:11159) A /issm/trunk-jpl/src/c/modules/KMLFileReadx/KMLFileReadx.h (from /issm/trunk-jpl/src/c/modules/KMLMeshWritex/KMLFileReadx.h:11159) D /issm/trunk-jpl/src/c/modules/KMLMeshWritex/KMLFileReadx.cpp D /issm/trunk-jpl/src/c/modules/KMLMeshWritex/KMLFileReadx.h M /issm/trunk-jpl/src/c/modules/modules.h A /issm/trunk-jpl/src/c/objects/KML/KML_Unknown.cpp A /issm/trunk-jpl/src/c/objects/KML/KML_Unknown.h M /issm/trunk-jpl/src/c/objects/objects.h A /issm/trunk-jpl/src/mex/KMLFileRead A /issm/trunk-jpl/src/mex/KMLFileRead/KMLFileRead.cpp (from /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLFileRead.cpp:11159) A /issm/trunk-jpl/src/mex/KMLFileRead/KMLFileRead.h (from /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLFileRead.h:11159) D /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLFileRead.cpp D /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLFileRead.h M /issm/trunk-jpl/src/mex/Makefile.am

Export determination: 6.

Rationale: Moved KMLFileRead to its own directory and added KML_Unknown class. D /issm/trunk-jpl/externalpackages/flaim/install flaim install directory SHOULD NOT be under svn

Change #11 with diff file ISSM-11296-11297.diff:

Function name:

D /issm/trunk-jpl/externalpackages/flaim/install

Export determination: 6.

Rationale: flaim install directory SHOULD NOT be under svn M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp Some clean-up

Change #12 with diff file ISSM-11297-11298.diff:

Function name:

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

Export determination: 6.

Rationale: Some clean-up M /issm/trunk-jpl/src/c/Container/Nodes.cpp M /issm/trunk-jpl/src/c/Container/Vertices.cpp minor

Change #13 with diff file ISSM-11298-11299.diff:

Function name:

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

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-

jpl/src/c/objects/Materials/Matpar.cpp M /issm/trunk-jpl/src/c/solutions/enthalpy_core.cpp

M /issm/trunk-jpl/src/c/solutions/enthalpy_core_step.cpp M /issm/trunk-jpl/src/m/solutions/enthalpy_core.m

A /issm/trunk-jpl/src/m/solutions/enthalpy_core_step.m M /issm/trunk-jpl/src/m/solvers/solver_nonlinear.m

added non linearity in enthalpy solution

Change #14 with diff file ISSM-11299-11300.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/objects/Materials/Matpar.cpp

M /issm/trunk-jpl/src/c/solutions/enthalpy_core.cpp M /issm/trunk-jpl/src/c/solutions/enthalpy_core_step.cpp

M /issm/trunk-jpl/src/m/solutions/enthalpy_core.m A /issm/trunk-jpl/src/m/solutions/enthalpy_core_step.m

M /issm/trunk-jpl/src/m/solvers/solver_nonlinear.m

Export determination: 6.

Rationale: added non linearity in enthalpy solution M /issm/trunk-jpl/cron/cronfiles/linux_cronfile

added Nicole, Feras and Chris on the list to receive the cron file