

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11268-11286

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

Program: ISSM: Ice Sheet System Model

Person Requesting or Initiating Export: Dr. Eric Larour

Date Received: Feb-23-2012

Document Title/Description: ISSM changes from revision 11268 to revision 11286

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)
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- 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-11268-11269.diff:

Function name:

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

Export determination: 6.

Rationale: minor tao initialization M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp
pressure needed for enthalpy, add assert to avoid crash

Change #2 with diff file ISSM-11269-11270.diff:

Function name:

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

Export determination: 6.

Rationale: pressure needed for enthalpy, add assert to avoid crash M /issm/trunk-jpl/src/c/modules/ModelProcessorx/Enthalpy/CreateConstraintsEnthalpy.cpp
spctem-
perature is now a column (for enthalpy solution), need to be improved to use
IoModelCreateConstraints

Change #3 with diff file ISSM-11270-11271.diff:

Function name:

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

Export determination: 6.

Rationale: spctemperature is now a column (for enthalpy solution), need to be
improved to use IoModelCreateConstraints M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp
minor

Change #4 with diff file ISSM-11271-11272.diff:

Function name:

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

Export determination: 6.

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

Change #5 with diff file ISSM-11272-11273.diff:

Function name:

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

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp fixed major problem for transient enthalpy

Change #6 with diff file ISSM-11273-11274.diff:

Function name:

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

Export determination: 6.

Rationale: fixed major problem for transient enthalpy M /issm/trunk-jpl/externalpackages/vim/addons/vim/syntax/c.vim

Added new enums to vim syntax

Change #7 with diff file ISSM-11274-11275.diff:

Function name:

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

Export determination: 6.

Rationale: Added new enums to vim syntax M /issm/trunk-jpl/src/c/EnumDefinitions/EnumDefinitions.h

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

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

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

TAO is now optional depending on a model flag (md.inversion.tao), to avoid having to recompile all the time

Change #8 with diff file ISSM-11275-11276.diff:

Function name:

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

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

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

Export determination: 6.

Rationale: TAO is now optional depending on a model flag (md.inversion.tao), to avoid having to recompile all the time M /issm/trunk-jpl/src/m/classes/inversion.m

M /issm/trunk-jpl/src/m/model/plot/plot_BC.m TAO is now optional depending on a model flag (md.inversion.tao), to avoid having to recompile all the time

Change #9 with diff file ISSM-11276-11277.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/inversion.m M /issm/trunk-jpl/src/m/model/plot/plot_BC.m

Export determination: 6.

Rationale: TAO is now optional depending on a model flag (md.inversion.tao), to avoid having to recompile all the time

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

Forgot to add enum/InversionTaoEnum.m

Change #10 with diff file ISSM-11277-11278.diff:

Function name:

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

Export determination: 6.

Rationale: Forgot to add enum/InversionTaoEnum.m M /issm/trunk-jpl/test/NightlyRun/test122.m

M /issm/trunk-jpl/test/NightlyRun/test222.m tolerances

Change #11 with diff file ISSM-11278-11279.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test122.m M /issm/trunk-jpl/test/NightlyRun/test222.m

Export determination: 6.

Rationale: tolerances M /issm/trunk-jpl/src/m/classes/initialization.m M /issm/trunk-jpl/src/m/solutions/enthalpy_core.m minor for enthalpy solution

Change #12 with diff file ISSM-11279-11280.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/initialization.m M /issm/trunk-jpl/src/m/solutions/enthalpy_core.m

Export determination: 6.

Rationale: minor for enthalpy solution M /issm/trunk-jpl/scripts/Update.sh

Added conversion of md.name

Change #13 with diff file ISSM-11280-11281.diff:

Function name:

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

Export determination: 6.

Rationale: Added conversion of md.name M /issm/trunk-jpl/test/NightlyRun/IdToName.m

A /issm/trunk-jpl/test/NightlyRun/test139.m A /issm/trunk-jpl/test/NightlyRun/test140.m

A /issm/trunk-jpl/test/NightlyRun/test141.m A /issm/trunk-jpl/test/NightlyRun/test142.m

A /issm/trunk-jpl/test/NightlyRun/test349.m A /issm/trunk-jpl/test/NightlyRun/test350.m

A /issm/trunk-jpl/test/NightlyRun/test351.m A /issm/trunk-jpl/test/NightlyRun/test352.m

added NR for enthalpy solution

Change #14 with diff file ISSM-11281-11282.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/IdToName.m A /issm/trunk-jpl/test/NightlyRun/test139.m

A /issm/trunk-jpl/test/NightlyRun/test140.m A /issm/trunk-jpl/test/NightlyRun/test141.m

A /issm/trunk-jpl/test/NightlyRun/test142.m A /issm/trunk-jpl/test/NightlyRun/test349.m

A /issm/trunk-jpl/test/NightlyRun/test350.m A /issm/trunk-jpl/test/NightlyRun/test351.m

A /issm/trunk-jpl/test/NightlyRun/test352.m

Export determination: 6.

Rationale: added NR for enthalpy solution A /issm/trunk-jpl/test/Archives/Archive139.mat

A /issm/trunk-jpl/test/Archives/Archive140.mat A /issm/trunk-jpl/test/Archives/Archive141.mat

A /issm/trunk-jpl/test/Archives/Archive142.mat A /issm/trunk-jpl/test/Archives/Archive349.mat

A /issm/trunk-jpl/test/Archives/Archive350.mat A /issm/trunk-jpl/test/Archives/Archive351.mat

A /issm/trunk-jpl/test/Archives/Archive352.mat added archives for enthalpy

NR

Change #15 with diff file ISSM-11282-11283.diff:

Function name:

A /issm/trunk-jpl/test/Archives/Archive139.mat A /issm/trunk-jpl/test/Archives/Archive140.mat

A /issm/trunk-jpl/test/Archives/Archive141.mat A /issm/trunk-jpl/test/Archives/Archive142.mat

A /issm/trunk-jpl/test/Archives/Archive349.mat A /issm/trunk-jpl/test/Archives/Archive350.mat
A /issm/trunk-jpl/test/Archives/Archive351.mat A /issm/trunk-jpl/test/Archives/Archive352.mat
Export determination: 6.
Rationale: added archives for enthalpy NR M /issm/trunk-jpl/src/c/solutions/controltao_core.cpp
Fixed tao, now working smoothly

Change #16 with diff file ISSM-11283-11284.diff:

Function name:

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

Export determination: 6.

Rationale: Fixed tao, now working smoothly M /issm/trunk-jpl/src/c/solvers/solver_nonlinear.cpp

M /issm/trunk-jpl/src/c/solvers/solver_stokescoupling_nonlinear.cpp minor ConvergedEnum should always be a bool

Change #17 with diff file ISSM-11284-11285.diff:

Function name:

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

Export determination: 6.

Rationale: minor ConvergedEnum should always be a bool M /issm/trunk-

jpl/src/c/solutions/convergence.cpp minor convergenceEnum is a bool

Change #18 with diff file ISSM-11285-11286.diff:

Function name:

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

Export determination: 6.

Rationale: minor convergenceEnum is a bool M /issm/trunk-jpl/src/c/solutions/solutions.h
header file missing