

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11730-11748

(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: Apr-16-2012

Document Title/Description: ISSM changes from revision 11730 to revision 11748

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:** Apr-16-2012



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-11730-11731.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Alloc/alloc.cpp

Export determination: 6.

Rationale: Avoid potential API issue when Petsc is absent M /issm/trunk-jpl/configs/config-macosx64-larour.sh No dakota for now

Change #2 with diff file ISSM-11731-11732.diff:

Function name:

M /issm/trunk-jpl/configs/config-macosx64-larour.sh

Export determination: 6.

Rationale: No dakota for now A /issm/trunk-jpl/configs/config-macosx64-larour-nopetsc.sh No dakota, no petsc, to test gsl API

Change #3 with diff file ISSM-11732-11733.diff:

Function name:

A /issm/trunk-jpl/configs/config-macosx64-larour-nopetsc.sh

Export determination: 6.

Rationale: No dakota, no petsc, to test gsl API M /issm/trunk-jpl/src/c/toolkits/double/MatlabVectorToDoubleVector.cpp

A /issm/trunk-jpl/src/c/toolkits/issm A /issm/trunk-jpl/src/c/toolkits/issm/SeqMat.cpp

A /issm/trunk-jpl/src/c/toolkits/issm/SeqMat.h A /issm/trunk-jpl/src/c/toolkits/issm/SeqVec.cpp

A /issm/trunk-jpl/src/c/toolkits/issm/SeqVec.h A /issm/trunk-jpl/src/c/toolkits/issm/issmtoolkit.h

M /issm/trunk-jpl/src/c/toolkits/toolkits.h Adding issm toolkit

Change #4 with diff file ISSM-11733-11734.diff:

Function name:

M /issm/trunk-jpl/src/c/toolkits/double/MatlabVectorToDoubleVector.cpp A

/issm/trunk-jpl/src/c/toolkits/issm A /issm/trunk-jpl/src/c/toolkits/issm/SeqMat.cpp

A /issm/trunk-jpl/src/c/toolkits/issm/SeqMat.h A /issm/trunk-jpl/src/c/toolkits/issm/SeqVec.cpp

A /issm/trunk-jpl/src/c/toolkits/issm/SeqVec.h A /issm/trunk-jpl/src/c/toolkits/issm/issmtoolkit.h

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

Export determination: 6.

Rationale: Adding issm toolkit M /issm/trunk-jpl/src/c/objects/Numerics/ElementMatrix.cpp

M /issm/trunk-jpl/src/c/objects/Numerics/ElementVector.cpp M /issm/trunk-

jpl/src/c/objects/Numerics/Matrix.cpp M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.h
M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp M /issm/trunk-jpl/src/c/objects/Numerics/Vector.h
Hook up new issm toolkit

Change #5 with diff file ISSM-11734-11735.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Numerics/ElementMatrix.cpp M /issm/trunk-jpl/src/c/objects/Numerics/ElementVector.cpp M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.cpp
M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.h M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp
M /issm/trunk-jpl/src/c/objects/Numerics/Vector.h

Export determination: 6.

Rationale: Hook up new issm toolkit M /issm/trunk-jpl/src/c/Makefile.am

Adding gsl support, issm toolkit.

Change #6 with diff file ISSM-11735-11736.diff:

Function name:

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

Export determination: 6.

Rationale: Adding gsl support, issm toolkit. M /issm/trunk-jpl/m4/issm_options.m4

Added gsl support + relaxed constraints on presence of PETSC to compile. Also added a fold where we should put all the checks post-m4 configuration.

Change #7 with diff file ISSM-11736-11737.diff:

Function name:

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

Export determination: 6.

Rationale: Added gsl support + relaxed constraints on presence of PETSC to compile. Also added a fold where we should put all the checks post-m4 configuration. M /issm/trunk-jpl/externalpackages/adolc/install.sh M /issm/trunk-jpl/externalpackages/chaco/chaco.patch M /issm/trunk-jpl/externalpackages/matlab/install.sh
M /issm/trunk-jpl/externalpackages/mitgcm/install.sh A /issm/trunk-jpl/externalpackages/petsc/install-2.3.2-macosx64.sh M /issm/trunk-jpl/src/c/modules/Solverx/Solverx.cpp M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp Vector object does not have an M size.

Change #8 with diff file ISSM-11737-11738.diff:

Function name:

M /issm/trunk-jpl/externalpackages/adolc/install.sh M /issm/trunk-jpl/externalpackages/chaco/chaco.patch
M /issm/trunk-jpl/externalpackages/matlab/install.sh M /issm/trunk-jpl/externalpackages/mitgcm/install.sh
A /issm/trunk-jpl/externalpackages/petsc/install-2.3.2-macosx64.sh M /issm/trunk-jpl/src/c/modules/Solverx/Solverx.cpp M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp

Export determination: 6.

Rationale: Vector object does not have an M size. M /issm/trunk-jpl/externalpackages/matlab/install.sh reverting

Change #9 with diff file ISSM-11738-11739.diff:

Function name:

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

Export determination: 6.

Rationale: reverting M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp Some legitimate demands if the vector is a NULL pointer

Change #10 with diff file ISSM-11739-11740.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp

Export determination: 6.

Rationale: Some legitimate demands if the vector is a NULL pointer M /issm/trunk-jpl/src/m/model/extrude.m Added lat/lon extrusion

Change #11 with diff file ISSM-11740-11741.diff:

Function name:

M /issm/trunk-jpl/src/m/model/extrude.m

Export determination: 6.

Rationale: Added lat/lon extrusion M /issm/trunk-jpl/externalpackages/chaco/chaco.patch reverted chaco installation back to normal (cannot compile on larsen/astrid)

Change #12 with diff file ISSM-11741-11742.diff:

Function name:

M /issm/trunk-jpl/externalpackages/chaco/chaco.patch

Export determination: 6.

Rationale: reverted chaco installation back to normal (cannot compile on larsen/astrid)

M /issm/trunk-jpl/src/m/model/extrude.m minor

Change #13 with diff file ISSM-11742-11743.diff:

Function name:

M /issm/trunk-jpl/src/m/model/extrude.m

Export determination: 6.

Rationale: minor M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.cpp M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.h M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp

M /issm/trunk-jpl/src/c/objects/Numerics/Vector.h M /issm/trunk-jpl/src/c/toolkits/petsc/patches/MatlabVectorToPetscVector.cpp

M /issm/trunk-jpl/src/c/toolkits/petsc/patches/MatlabVectorToPetscVector.cpp

no NULL pointer allowed for Vector or Matrix

Change #14 with diff file ISSM-11743-11744.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.cpp M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.h

M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp M /issm/trunk-jpl/src/c/objects/Numerics/Vector.h

M /issm/trunk-jpl/src/c/toolkits/petsc/patches/MatlabMatrixToPetscMatrix.cpp

M /issm/trunk-jpl/src/c/toolkits/petsc/patches/MatlabVectorToPetscVector.cpp

Export determination: 6.

Rationale: no NULL pointer allowed for Vector or Matrix M /issm/trunk-jpl/src/c/solutions/convergence.cpp no NULL pointer allowed for Vector or Matrix

Change #15 with diff file ISSM-11744-11745.diff:

Function name:

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

Export determination: 6.

Rationale: no NULL pointer allowed for Vector or Matrix M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp fixed issue with GetSize

Change #16 with diff file ISSM-11745-11746.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Numerics/Vector.cpp

Export determination: 6.

Rationale: fixed issue with GetSize M /issm/trunk-jpl/execution Ignore test decks*

Change #17 with diff file ISSM-11746-11747.diff:

Function name:

M /issm/trunk-jpl/execution

Export determination: 6.

Rationale: Ignore test decks* A /issm/trunk-jpl/externalpackages/gsl A /issm/trunk-jpl/externalpackages/gsl/README A /issm/trunk-jpl/externalpackages/gsl/gsl-1.15.tar.gz A /issm/trunk-jpl/externalpackages/gsl/install-macosx64.sh gsl package

Change #18 with diff file ISSM-11747-11748.diff:

Function name:

A /issm/trunk-jpl/externalpackages/gsl A /issm/trunk-jpl/externalpackages/gsl/README

A /issm/trunk-jpl/externalpackages/gsl/gsl-1.15.tar.gz A /issm/trunk-jpl/externalpackages/gsl/install-macosx64.sh

Export determination: 6.

Rationale: gsl package A /issm/trunk-jpl/externalpackages/gmake A /issm/trunk-jpl/externalpackages/gmake/install.sh A /issm/trunk-jpl/externalpackages/gmake/make-3.82.tar.gz GNU make