

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11718-11730

(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 11718 to revision 11730

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)
- 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-11718-11719.diff:

Function name:

M /issm/trunk-jpl/externalpackages/android-sdk/install.sh

Export determination: 6.

Rationale: Modified the install.sh script of Android-SDK M /issm/trunk-jpl/src/c/modules/ModelProcessorx/1

Precipitation not needed for prognostic

Change #2 with diff file ISSM-11719-11720.diff:

Function name:

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

Export determination: 6.

Rationale: Precipitation not needed for prognostic M /issm/trunk-jpl/src/c/objects/Elements/Tria.cpp

M /issm/trunk-jpl/src/c/objects/objects.h Better error message if input does

not have the right length

Change #3 with diff file ISSM-11720-11721.diff:

Function name:

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

Export determination: 6.

Rationale: Better error message if input does not have the right length M

/issm/trunk-jpl/src/c/shared/Matlab/ModuleBoot.cpp M /issm/trunk-jpl/src/c/shared/Matlab/ModuleEnd.

Live without Petsc

Change #4 with diff file ISSM-11721-11722.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Matlab/ModuleBoot.cpp M /issm/trunk-jpl/src/c/shared/Matlab/ModuleEr

Export determination: 6.

Rationale: Live without Petsc M /issm/trunk-jpl/etc/environment.sh M /issm/trunk-

jpl/etc/environment_variables.sh Add GSL support

Change #5 with diff file ISSM-11722-11723.diff:

Function name:

M /issm/trunk-jpl/etc/environment.sh M /issm/trunk-jpl/etc/environment_variables.sh

Export determination: 6.

Rationale: Add GSL support M /issm/trunk-jpl/src/mex/Makefile.am Add
GSL support

Change #6 with diff file ISSM-11723-11724.diff:

Function name:

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

Export determination: 6.

Rationale: Add GSL support M /issm/trunk-jpl/src/c/solutions/issm.cpp Broader
definition of when issm should run in parallel.

Change #7 with diff file ISSM-11724-11725.diff:

Function name:

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

Export determination: 6.

Rationale: Broader definition of when issm should run in parallel. M /issm/trunk-
jpl/src/c/solutions/convergence.cpp Shield some potentially dangerous API de-
pendency

Change #8 with diff file ISSM-11725-11726.diff:

Function name:

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

Export determination: 6.

Rationale: Shield some potentially dangerous API dependency M /issm/trunk-
jpl/src/c/modules/Solverx/Solverx.cpp M /issm/trunk-jpl/src/c/modules/Solverx/Solverx.h
A /issm/trunk-jpl/src/c/modules/Solverx/SolverxGsl.cpp Added GSL solver

Change #9 with diff file ISSM-11726-11727.diff:

Function name:

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

A /issm/trunk-jpl/src/c/modules/Solverx/SolverxGsl.cpp

Export determination: 6.

Rationale: Added GSL solver A /issm/trunk-jpl/src/m/Utils/OS/ispetsc.m De-
tect petsc compilation in config.h

Change #10 with diff file ISSM-11727-11728.diff:

Function name:

A /issm/trunk-jpl/src/m/Utils/OS/ispetsc.m

Export determination: 6.

Rationale: Detect petsc compilation in config.h M /issm/trunk-jpl/src/m/model/petscversion.m
Added a default petsc version

Change #11 with diff file ISSM-11728-11729.diff:

Function name:

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

Export determination: 6.

Rationale: Added a default petsc version M /issm/trunk-jpl/src/m/model/solveparallel.m

Detect presence of petsc for solving in parallel. Otherwise, run with 1 cpu only

Change #12 with diff file ISSM-11729-11730.diff:

Function name:

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

Export determination: 6.

Rationale: Detect presence of petsc for solving in parallel. Otherwise, run with 1 cpu only M /issm/trunk-jpl/src/c/shared/Alloc/alloc.cpp Avoid potential API issue when Petsc is absent