

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11451-11470

(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 11451 to revision 11470

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-11451-11452.diff:

Function name:

M /issm/trunk-jpl/test/NightlyRun/test430.m

Export determination: 6.

Rationale: update tolerance

Change #2 with diff file ISSM-11452-11453.diff:

Function name:

M /issm/trunk-jpl/src/m/utls/Shell/issmdir.m M /issm/trunk-jpl/src/m/utls/Shell/issmtier.m

Export determination: 6.

Rationale: Rely on Windows style paths for these shell dependent routines

Change #3 with diff file ISSM-11453-11454.diff:

Function name:

M /issm/trunk-jpl/src/m/utls/Shell/issmdir.m M /issm/trunk-jpl/src/m/utls/Shell/issmtier.m

Export determination: 6.

Rationale: Rely on Windows style paths for these shell dependent routines M /issm/trunk-jpl/startup.m Rely on Windows style paths for these shell dependent routines

Change #4 with diff file ISSM-11454-11455.diff:

Function name:

M /issm/trunk-jpl/startup.m

Export determination: 6.

Rationale: Rely on Windows style paths for these shell dependent routines M /issm/trunk-jpl/m4/issm_options.m4 Large array compile for Win7 platforms: assumes 64 bits

Change #5 with diff file ISSM-11455-11456.diff:

Function name:

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

Export determination: 6.

Rationale: Large array compile for Win7 platforms: assumes 64 bits D /issm/trunk-jpl/externalpackages/autoconf/autoconf-2.63.tar.gz A /issm/trunk-jpl/externalpackages/autoconf/autoconf-

2.68.tar.gz M /issm/trunk-jpl/externalpackages/autoconf/install.sh D /issm/trunk-jpl/externalpackages/automake/automake-1.10.2.tar.gz A /issm/trunk-jpl/externalpackages/automake/automake-1.11.3.tar.gz M /issm/trunk-jpl/externalpackages/automake/install.sh updating automake and autoconf to avoid error messages on some machine and potentially use the new enable-silent-rules option (Cmake like compilation)

Change #6 with diff file ISSM-11456-11457.diff:

Function name:

D /issm/trunk-jpl/externalpackages/autoconf/autoconf-2.63.tar.gz A /issm/trunk-jpl/externalpackages/autoconf/autoconf-2.68.tar.gz M /issm/trunk-jpl/externalpackages/autoconf/install.sh D /issm/trunk-jpl/externalpackages/automake/automake-1.10.2.tar.gz A /issm/trunk-jpl/externalpackages/automake/automake-1.11.3.tar.gz M /issm/trunk-jpl/externalpackages/automake/install.sh

Export determination: 6.

Rationale: updating automake and autoconf to avoid error messages on some machine and potentially use the new enable-silent-rules option (Cmake like compilation) M /issm/trunk-jpl/m4/issm_options.m4 Fixing compilation for mac mexmaci64 (wrong path and mexversion.o undefined)

Change #7 with diff file ISSM-11457-11458.diff:

Function name:

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

Export determination: 6.

Rationale: Fixing compilation for mac mexmaci64 (wrong path and mexversion.o undefined) M /issm/trunk-jpl/m4/issm_options.m4 Added parallel compile for windows + kernel libraries for win7 compile

Change #8 with diff file ISSM-11458-11459.diff:

Function name:

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

Export determination: 6.

Rationale: Added parallel compile for windows + kernel libraries for win7 compile M /issm/trunk-jpl/configs/config-win7.sh Configuration changes for parallel compile of issm on Windows platforms with 1 cpu

Change #9 with diff file ISSM-11459-11460.diff:

Function name:

M /issm/trunk-jpl/configs/config-win7.sh

Export determination: 6.

Rationale: Configuration changes for parallel compile of issm on Windows platforms with 1 cpu M /issm/trunk-jpl/src/c/Makefile.am Renamed executable in Makefile.am from issm.exe to issm, because autotools should pick up the extension. Also added isnan function from serial to core routines

Change #10 with diff file ISSM-11460-11461.diff:

Function name:

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

Export determination: 6.

Rationale: Renamed executable in Makefile.am from issm.exe to issm, because autotools should pick up the extension. Also added isnan function from serial to core routines M /issm/trunk-jpl/externalpackages/cccl/issm/cccl Minor

Change #11 with diff file ISSM-11461-11462.diff:

Function name:

M /issm/trunk-jpl/externalpackages/cccl/issm/cccl

Export determination: 6.

Rationale: Minor

Change #12 with diff file ISSM-11462-11463.diff:

Function name:

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

Export determination: 6.

Rationale: Added ISSMEXT for the nightly runs tonight

Change #13 with diff file ISSM-11463-11464.diff:

Function name:

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

Export determination: 6.

Rationale: Added ISSMEXT for the nightly runs tonight M /issm/trunk-jpl/m4/issm_options.m4
Added ISSMEXT for the nightly runs tonight

Change #14 with diff file ISSM-11464-11465.diff:

Function name:

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

Export determination: 6.

Rationale: Added ISSMEXT for the nightly runs tonight M /issm/trunk-jpl/src/c/modules/Solverx/Solverx.cpp
Fixed bug in use of PETSC_VERSION (which does not exist) and PETSC_MAJOR macros. Hard to believe this was never caught.

Change #15 with diff file ISSM-11465-11466.diff:

Function name:

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

Export determination: 6.

Rationale: Fixed bug in use of PETSC_VERSION (which does not exist) and PETSC_MAJOR macros. Hard to believe this was never caught. M /issm/trunk-jpl/src/c/modules/Solverx/Solverx.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/PetscOptionsDetermini
M /issm/trunk-jpl/src/m/classes/model/model.m M /issm/trunk-jpl/src/m/classes/solver.m
A /issm/trunk-jpl/src/m/utis/OS/ismumps.m Fixed issues with the MUMPS solver. Up to now, we never checked that the MUMPS solver had been compiled. Now added this check in Solverx.cpp. Also worked on the default solvers if MUMPS is not available -i solver.m and model.m and ismumps.m

Change #16 with diff file ISSM-11466-11467.diff:

Function name:

M /issm/trunk-jpl/src/c/modules/Solverx/Solverx.cpp M /issm/trunk-jpl/src/c/toolkits/petsc/patches/Petsc

M /issm/trunk-jpl/src/m/classes/model/model.m M /issm/trunk-jpl/src/m/classes/solver.m

A /issm/trunk-jpl/src/m/utis/OS/ismumps.m

Export determination: 6.

Rationale: Fixed issues with the MUMPS solver. Up to now, we never checked that the MUMPS solver had been compiled. Now added this check in Solverx.cpp. Also worked on the default solvers if MUMPS is not available -i, solver.m and model.m and ismumps.m

Change #17 with diff file ISSM-11468-11469.diff:

Function name:

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

Export determination: 6.

Rationale: Fixed compilation for PETSc 3.2 (MATSOLVERMUMPS + PC-FieldSplit)

Change #18 with diff file ISSM-11469-11470.diff:

Function name:

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

Export determination: 6.

Rationale: Fixed compilation for PETSc 3.2 (MATSOLVERMUMPS + PC-FieldSplit) D /issm/trunk-jpl/src/m/utis/Enum Not needed anymore