

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD

Log #: 11431-11450

(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 11431 to revision 11450

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-11431-11432.diff:

Function name:

A /issm/trunk-jpl/ar-lib M /issm/trunk-jpl/configure.ac A /issm/trunk-jpl/m4/ar-lib.m4

Export determination: 6.

Rationale: Added ar-lib macro in configure.ac + added new cl and cccl compiler. The new ar-lib macro is useful to compile on win7 using cygwin, to make sure automake does not use ar and ranlib to create a library, but rather lib.exe D /issm/trunk-jpl/ar-lib Deleteing symlink, to replace it later

Change #2 with diff file ISSM-11432-11433.diff:

Function name:

D /issm/trunk-jpl/ar-lib

Export determination: 6.

Rationale: Deleteing symlink, to replace it later A /issm/trunk-jpl/ar-lib Coming from automake 1.11.3

Change #3 with diff file ISSM-11433-11434.diff:

Function name:

A /issm/trunk-jpl/ar-lib

Export determination: 6.

Rationale: Coming from automake 1.11.3 M /issm/trunk-jpl/externalpackages/cccl Ignore install directory

Change #4 with diff file ISSM-11434-11435.diff:

Function name:

M /issm/trunk-jpl/externalpackages/cccl

Export determination: 6.

Rationale: Ignore install directory M /issm/trunk-jpl/src/mex M /issm/trunk-jpl/src/mex/Makefile.am Missing MEXLIB for compile on Windows machines + changed some properties to ignore byproducts of windows compile

Change #5 with diff file ISSM-11435-11436.diff:

Function name:

M /issm/trunk-jpl/src/mex M /issm/trunk-jpl/src/mex/Makefile.am
Export determination: 6.
Rationale: Missing MEXLIB for compile on Windows machines + changed some properties to ignore byproducts of windows compile M /issm/trunk-jpl/src/c/intel-compile.sh Some update on intel compilation file. Probably obsolete. Will move it to scripts section

Change #6 with diff file ISSM-11436-11437.diff:

Function name:

M /issm/trunk-jpl/src/c/intel-compile.sh

Export determination: 6.

Rationale: Some update on intel compilation file. Probably obsolete. Will move it to scripts section A /issm/trunk-jpl/scripts/intel-compile.sh (from /issm/trunk-jpl/src/c/intel-compile.sh:11436) D /issm/trunk-jpl/src/c/intel-compile.sh Obsolete

Change #7 with diff file ISSM-11437-11438.diff:

Function name:

A /issm/trunk-jpl/scripts/intel-compile.sh (from /issm/trunk-jpl/src/c/intel-compile.sh:11436)

D /issm/trunk-jpl/src/c/intel-compile.sh

Export determination: 6.

Rationale: Obsolete M /issm/trunk-jpl/bin Ignore .mexw64 windows mex files.

Change #8 with diff file ISSM-11438-11439.diff:

Function name:

M /issm/trunk-jpl/bin

Export determination: 6.

Rationale: Ignore .mexw64 windows mex files. A /issm/trunk-jpl/configs/config-win7.sh New configuration file for win7 platform

Change #9 with diff file ISSM-11439-11440.diff:

Function name:

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

Export determination: 6.

Rationale: New configuration file for win7 platform M /issm/trunk-jpl/etc/environment.sh M /issm/trunk-jpl/etc/environment_variables.sh Added cccl compiler wrapper to Microsoft Visual Studio cl.exe compiler.

Change #10 with diff file ISSM-11440-11441.diff:

Function name:

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

Export determination: 6.

Rationale: Added cccl compiler wrapper to Microsoft Visual Studio cl.exe compiler. M /issm/trunk-jpl/configure.ac Changed location of AM_PROG_AR macro, so that it can pick up on the intel vendor settings, specifically the values of AR and RANLIB variables

Change #11 with diff file ISSM-11441-11442.diff:

Function name:

M /issm/trunk-jpl/configure.ac

Export determination: 6.

Rationale: Changed location of AM_PROG_AR macro, so that it can pick up on the intel vendor settings, specifically the values of AR and RANLIB variables
M /issm/trunk-jpl/src/c/Makefile.am Missing CXXFLAGS and CFLAGS from Makefile.am

Change #12 with diff file ISSM-11442-11443.diff:

Function name:

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

Export determination: 6.

Rationale: Missing CXXFLAGS and CFLAGS from Makefile.am M /issm/trunk-jpl/m4/issm_options.m4 New settings, macros and paths for Win7 compile.

Change #13 with diff file ISSM-11443-11444.diff:

Function name:

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

Export determination: 6.

Rationale: New settings, macros and paths for Win7 compile. M /issm/trunk-jpl/src/c Ignore compile files for win7 build

Change #14 with diff file ISSM-11444-11445.diff:

Function name:

M /issm/trunk-jpl/src/c

Export determination: 6.

Rationale: Ignore compile files for win7 build M /issm/trunk-jpl/src/c/include/typedefs.h
NAN and INFINITY for Visual Studio win7 compile

Change #15 with diff file ISSM-11445-11446.diff:

Function name:

M /issm/trunk-jpl/src/c/include/typedefs.h

Export determination: 6.

Rationale: NAN and INFINITY for Visual Studio win7 compile M /issm/trunk-jpl/src/m/classes/inversion.m Added incomplete_adjoint field

Change #16 with diff file ISSM-11446-11447.diff:

Function name:

M /issm/trunk-jpl/src/m/classes/inversion.m

Export determination: 6.

Rationale: Added incomplete_adjoint field 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/Control/CreateParametersControl.cpp M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp A /issm/trunk-

jpl/src/m/enum/InversionIncompleteAdjointEnum.m Added incomplete_adjoint flag (1 default for now)

Change #17 with diff file ISSM-11447-11448.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/ M /issm/trunk-jpl/src/c/modules/StringToEnumx/StringToEnumx.cpp A /issm/trunk-jpl/src/m/enum/InversionIncompleteAdjointEnum.m

Export determination: 6.

Rationale: Added incomplete_adjoint flag (1 default for now) M /issm/trunk-jpl/src/c/objects/Elements/Penta.cpp M /issm/trunk-jpl/src/c/objects/Elements/Penta.h M /issm/trunk-jpl/src/c/objects/Elements/Tria.cpp M /issm/trunk-jpl/src/c/objects/Elements/Tria.h Added complete adjoint

Change #18 with diff file ISSM-11448-11449.diff:

Function name:

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

Export determination: 6.

Rationale: Added complete adjoint M /issm/trunk-jpl/test/Archives/Archive338.mat M /issm/trunk-jpl/test/Archives/Archive339.mat M /issm/trunk-jpl/test/Archives/Archive340.mat M /issm/trunk-jpl/test/Archives/Archive429.mat M /issm/trunk-jpl/test/Archives/Archive430.mat M /issm/trunk-jpl/test/Archives/Archive523.mat M /issm/trunk-jpl/test/Archives/Archive524.mat M /issm/trunk-jpl/test/Archives/Archive525.mat M /issm/trunk-jpl/test/Archives/Archive526.mat CM archive update

Change #19 with diff file ISSM-11449-11450.diff:

Function name:

M /issm/trunk-jpl/test/Archives/Archive338.mat M /issm/trunk-jpl/test/Archives/Archive339.mat M /issm/trunk-jpl/test/Archives/Archive340.mat M /issm/trunk-jpl/test/Archives/Archive429.mat M /issm/trunk-jpl/test/Archives/Archive430.mat M /issm/trunk-jpl/test/Archives/Archive523.mat M /issm/trunk-jpl/test/Archives/Archive524.mat M /issm/trunk-jpl/test/Archives/Archive525.mat M /issm/trunk-jpl/test/Archives/Archive526.mat

Export determination: 6.

Rationale: CM archive update M /issm/trunk-jpl/test/Archives/Archive338.mat M /issm/trunk-jpl/test/Archives/Archive339.mat M /issm/trunk-jpl/test/Archives/Archive340.mat M /issm/trunk-jpl/test/Archives/Archive429.mat M /issm/trunk-jpl/test/Archives/Archive430.mat M /issm/trunk-jpl/test/Archives/Archive523.mat M /issm/trunk-jpl/test/Archives/Archive524.mat M /issm/trunk-jpl/test/Archives/Archive525.mat M /issm/trunk-jpl/test/Archives/Archive526.mat Try again: CM Archives (updated branch)