

JPL EXPORT ADMINISTRATION DOCUMENT REVIEW RECORD
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Log #: 11932-11945

(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 11932 to revision 11945

**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](http://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)

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**Change #1** with diff file ISSM-11932-11933.diff:

Function name:

M /issm/trunk-jpl/src/mex/TriMesh/TriMesh.cpp D /issm/trunk-jpl/src/mex/TriMesh/TriMesh.cpp.bak

M /issm/trunk-jpl/src/mex/TriMesh/TriMesh.h D /issm/trunk-jpl/src/mex/TriMesh/TriMesh.h.bak

Export determination: 6.

Rationale: Prototype TriMesh module M /issm/trunk-jpl/src/mex M /issm/trunk-jpl/src/mex/AddExternalResult/AddExternalResult.cpp M /issm/trunk-jpl/src/mex/AddExternalResult/AddExternalResult.h M /issm/trunk-jpl/src/mex/AverageFilter/AverageFilter.cpp M /issm/trunk-jpl/src/mex/AverageFilter/AverageFilter.h M /issm/trunk-jpl/src/mex/BamgConvertMesh/BamgConvertMesh.cpp M /issm/trunk-jpl/src/mex/BamgConvertMesh/BamgConvertMesh.h M /issm/trunk-jpl/src/mex/BamgMesher/BamgMesher.h M /issm/trunk-jpl/src/mex/BamgTriangulate/BamgTriangulate.cpp M /issm/trunk-jpl/src/mex/BamgTriangulate/BamgTriangulate.h M /issm/trunk-jpl/src/mex/Chaco/Chaco.cpp M /issm/trunk-jpl/src/mex/Chaco/Chaco.h M /issm/trunk-jpl/src/mex/ComputeBasalStress/ComputeBasalStress.cpp M /issm/trunk-jpl/src/mex/ComputeBasalStress/ComputeBasalStress.h M /issm/trunk-jpl/src/mex/ConfigureObjects/ConfigureObjects.cpp M /issm/trunk-jpl/src/mex/ConfigureObjects/ConfigureObjects.h M /issm/trunk-jpl/src/mex/ConstraintsState/ConstraintsState.cpp M /issm/trunk-jpl/src/mex/ConstraintsState/ConstraintsState.h M /issm/trunk-jpl/src/mex/ContourToMesh/ContourToMesh.cpp M /issm/trunk-jpl/src/mex/ContourToMesh/ContourToMesh.h M /issm/trunk-jpl/src/mex/ContourToNodes/ContourToNodes.cpp M /issm/trunk-jpl/src/mex/ContourToNodes/ContourToNodes.h M /issm/trunk-jpl/src/mex/ControlInputGetGradient/ControlInputGetGradient.cpp M /issm/trunk-jpl/src/mex/ControlInputGetGradient/ControlInputGetGradient.h M /issm/trunk-jpl/src/mex/ControlInputScaleGradient/ControlInputScaleGradient.cpp M /issm/trunk-jpl/src/mex/ControlInputScaleGradient/ControlInputScaleGradient.h M /issm/trunk-jpl/src/mex/ControlInputSetGradient/ControlInputSetGradient.cpp M /issm/trunk-jpl/src/mex/ControlInputSetGradient/ControlInputSetGradient.h M /issm/trunk-jpl/src/mex/ControlOptimization/ControlOptimization.cpp M /issm/trunk-jpl/src/mex/ControlOptimization/ControlOptimization.h M /issm/trunk-jpl/src/mex/CostFunction/CostFunction.cpp M /issm/trunk-jpl/src/mex/CostFunction/CostFunction.h M /issm/trunk-jpl/src/mex/CreateJacobianMatrix/CreateJacobianMatrix.cpp M /issm/trunk-jpl/src/mex/CreateJacobianMatrix/CreateJacobianMatrix.h M /issm/trunk-jpl/src/mex/CreateNodalConstraints/CreateNodalConstraints.cpp M /issm/trunk-jpl/src/mex/CreateNodalConstraints/CreateNodalConstraints.h M /issm/trunk-jpl/src/mex/Dakota/Dakota.h M /issm/trunk-jpl/src/mex/DakotaResponses/DakotaResponses.cpp M /issm/trunk-jpl/src/mex/DakotaResponses/DakotaResponses.h M /issm/trunk-

jpl/src/mex/Echo/Echo.cpp M /issm/trunk-jpl/src/mex/Echo/Echo.h M /issm/trunk-  
jpl/src/mex/ElementConnectivity/ElementConnectivity.cpp M /issm/trunk-jpl/src/mex/ElementConnectivity/ElementConnectivity.h M /issm/trunk-jpl/src/mex/EnumToString/EnumToString.cpp M /issm/trunk-  
jpl/src/mex/EnumToString/EnumToString.h M /issm/trunk-jpl/src/mex/Exp2Kml/Exp2Kml.cpp  
M /issm/trunk-jpl/src/mex/Exp2Kml/Exp2Kml.h M /issm/trunk-jpl/src/mex/GetSolutionFromInputs/GetSolutionFromInputs.cpp M /issm/trunk-jpl/src/mex/GetSolutionFromInputs/GetSolutionFromInputs.h  
M /issm/trunk-jpl/src/mex/GetVectorFromInputs/GetVectorFromInputs.cpp M /issm/trunk-jpl/src/mex/GetVectorFromInputs/GetVectorFromInputs.h M /issm/trunk-  
jpl/src/mex/Gradj/Gradj.cpp M /issm/trunk-jpl/src/mex/Gradj/Gradj.h M /issm/trunk-  
jpl/src/mex/GroundinglineMigration/GroundinglineMigration.cpp M /issm/trunk-  
jpl/src/mex/GroundinglineMigration/GroundinglineMigration.h M /issm/trunk-  
jpl/src/mex/HoleFiller/HoleFiller.cpp M /issm/trunk-jpl/src/mex/HoleFiller/HoleFiller.h  
M /issm/trunk-jpl/src/mex/InputControlUpdate/InputControlUpdate.cpp M /issm/trunk-  
jpl/src/mex/InputControlUpdate/InputControlUpdate.h M /issm/trunk-jpl/src/mex/InputConvergence/InputConvergence.cpp M /issm/trunk-jpl/src/mex/InputConvergence/InputConvergence.h M /issm/trunk-  
jpl/src/mex/InputDuplicate/InputDuplicate.cpp M /issm/trunk-jpl/src/mex/InputDuplicate/InputDuplicate.h M /issm/trunk-jpl/src/mex/InputScale/InputScale.cpp M /issm/trunk-jpl/src/mex/InputScale/InputScale.h  
M /issm/trunk-jpl/src/mex/InputToResult/InputToResult.cpp M /issm/trunk-  
jpl/src/mex/InputToResult/InputToResult.h M /issm/trunk-jpl/src/mex/InputUpdateFromConstant/InputUpdateFromConstant.cpp M /issm/trunk-jpl/src/mex/InputUpdateFromConstant/InputUpdateFromConstant.h  
M /issm/trunk-jpl/src/mex/InputUpdateFromDakota/InputUpdateFromDakota.cpp  
M /issm/trunk-jpl/src/mex/InputUpdateFromDakota/InputUpdateFromDakota.h  
M /issm/trunk-jpl/src/mex/InputUpdateFromSolution/InputUpdateFromSolution.cpp  
M /issm/trunk-jpl/src/mex/InputUpdateFromSolution/InputUpdateFromSolution.h  
M /issm/trunk-jpl/src/mex/InputUpdateFromVector/InputUpdateFromVector.cpp  
M /issm/trunk-jpl/src/mex/InputUpdateFromVector/InputUpdateFromVector.h  
M /issm/trunk-jpl/src/mex/InternalFront/InternalFront.cpp M /issm/trunk-jpl/src/mex/InternalFront/InternalFront.h M /issm/trunk-jpl/src/mex/InterpFromGridToMesh/InterpFromGridToMesh.cpp  
M /issm/trunk-jpl/src/mex/InterpFromGridToMesh/InterpFromGridToMesh.h  
M /issm/trunk-jpl/src/mex/InterpFromMesh2d/InterpFromMesh2d.cpp M /issm/trunk-  
jpl/src/mex/InterpFromMesh2d/InterpFromMesh2d.h M /issm/trunk-jpl/src/mex/InterpFromMeshToGrid/InterpFromMeshToGrid.cpp M /issm/trunk-jpl/src/mex/InterpFromMeshToGrid/InterpFromMeshToGrid.h  
M /issm/trunk-jpl/src/mex/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.cpp  
M /issm/trunk-jpl/src/mex/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.h  
M /issm/trunk-jpl/src/mex/InterpFromMeshToMesh3d/InterpFromMeshToMesh3d.cpp  
M /issm/trunk-jpl/src/mex/InterpFromMeshToMesh3d/InterpFromMeshToMesh3d.h  
M /issm/trunk-jpl/src/mex/KMLFileRead/KMLFileRead.cpp M /issm/trunk-  
jpl/src/mex/KMLFileRead/KMLFileRead.h M /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLMeshWrite.cpp M /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLMeshWrite.h M /issm/trunk-  
jpl/src/mex/KMLOverlay/KMLOverlay.cpp M /issm/trunk-jpl/src/mex/KMLOverlay/KMLOverlay.h  
M /issm/trunk-jpl/src/mex/Kml2Exp/Kml2Exp.cpp M /issm/trunk-jpl/src/mex/Kml2Exp/Kml2Exp.h  
M /issm/trunk-jpl/src/mex/Ll2xy/Ll2xy.cpp M /issm/trunk-jpl/src/mex/Ll2xy/Ll2xy.h  
M /issm/trunk-jpl/src/mex/Makefile.am M /issm/trunk-jpl/src/mex/Mergesolutionfromftog/Mergesolutionfromftog.cpp M /issm/trunk-jpl/src/mex/Mergesolutionfromftog/Mergesolutionfromftog.h M /issm/trunk-jpl/src/mex/MeshPartition/MeshPartition.cpp M /issm/trunk-jpl/src/mex/MeshPartition/MeshPartition.h M /issm/trunk-jpl/src/mex/MeshProfileIntersection/MeshProfileIntersection.cpp

M /issm/trunk-jpl/src/mex/MeshProfileIntersection/MeshProfileIntersection.h  
M /issm/trunk-jpl/src/mex/ModelProcessor/ModelProcessor.cpp M /issm/trunk-jpl/src/mex/ModelProcessor/ModelProcessor.h M /issm/trunk-jpl/src/mex/NodeConnectivity/NodeConnectivity.h M /issm/trunk-jpl/src/mex/NodesDof/NodesDof.cpp M /issm/trunk-jpl/src/mex/NodesDof/NodesDof.h  
M /issm/trunk-jpl/src/mex/Orth/Orth.cpp M /issm/trunk-jpl/src/mex/Orth/Orth.h  
M /issm/trunk-jpl/src/mex/OutputResults/OutputResults.cpp M /issm/trunk-jpl/src/mex/OutputResults/OutputResults.h M /issm/trunk-jpl/src/mex/OutputRifts/OutputRifts.cpp  
M /issm/trunk-jpl/src/mex/OutputRifts/OutputRifts.h M /issm/trunk-jpl/src/mex/ParameterOutput/ParameterOutput.cpp M /issm/trunk-jpl/src/mex/ParameterOutput/ParameterOutput.h M /issm/trunk-jpl/src/mex/ParsePetscOptions/ParsePetscOptions.cpp M /issm/trunk-jpl/src/mex/ParsePetscOptions/ParsePetscOptions.h  
M /issm/trunk-jpl/src/mex/PointCloudFindNeighbors/PointCloudFindNeighbors.cpp  
M /issm/trunk-jpl/src/mex/PointCloudFindNeighbors/PointCloudFindNeighbors.h  
M /issm/trunk-jpl/src/mex/ProcessParams/ProcessParams.cpp M /issm/trunk-jpl/src/mex/ProcessParams/ProcessParams.h M /issm/trunk-jpl/src/mex/PropagateFlagsFromConnectivity/PropagateFlagsFromConnectivity.cpp  
M /issm/trunk-jpl/src/mex/PropagateFlagsFromConnectivity/PropagateFlagsFromConnectivity.h  
M /issm/trunk-jpl/src/mex/Reduceload/Reduceload.cpp M /issm/trunk-jpl/src/mex/Reduceload/Reduceload.h  
M /issm/trunk-jpl/src/mex/Reducevectorgtoof/Reducevectorgtoof.cpp M /issm/trunk-jpl/src/mex/Reducevectorgtoof/Reducevectorgtoof.h M /issm/trunk-jpl/src/mex/Reducevectorgtos/Reducevectorgtos.cpp  
M /issm/trunk-jpl/src/mex/Reducevectorgtos/Reducevectorgtos.h M /issm/trunk-jpl/src/mex/ResetCoordinateSystem/ResetCoordinateSystem.cpp M /issm/trunk-jpl/src/mex/ResetCoordinateSystem/ResetCoordinateSystem.h M /issm/trunk-jpl/src/mex/Response/Response.cpp M /issm/trunk-jpl/src/mex/Response/Response.h  
M /issm/trunk-jpl/src/mex/Scotch/Scotch.h M /issm/trunk-jpl/src/mex/Shp2Kml/Shp2Kml.cpp  
M /issm/trunk-jpl/src/mex/Shp2Kml/Shp2Kml.h M /issm/trunk-jpl/src/mex/Solver/Solver.cpp  
M /issm/trunk-jpl/src/mex/Solver/Solver.h M /issm/trunk-jpl/src/mex/SparseToVector/SparseToVector.h  
M /issm/trunk-jpl/src/mex/SpcNodes/SpcNodes.cpp M /issm/trunk-jpl/src/mex/SpcNodes/SpcNodes.h  
M /issm/trunk-jpl/src/mex/StringToEnum/StringToEnum.cpp M /issm/trunk-jpl/src/mex/StringToEnum/StringToEnum.h M /issm/trunk-jpl/src/mex/SurfaceArea/SurfaceArea.cpp  
M /issm/trunk-jpl/src/mex/SurfaceArea/SurfaceArea.h M /issm/trunk-jpl/src/mex/SystemMatrices/SystemMatrices.cpp M /issm/trunk-jpl/src/mex/SystemMatrices/SystemMatrices.h M /issm/trunk-jpl/src/mex/Test/Test.cpp M /issm/trunk-jpl/src/mex/TimeAdapt/TimeAdapt.cpp  
M /issm/trunk-jpl/src/mex/TimeAdapt/TimeAdapt.h M /issm/trunk-jpl/src/mex/TriMeshNoDensity/TriMeshNoDensity.h M /issm/trunk-jpl/src/mex/TriMeshProcessRifts/TriMeshProcessRifts.h M /issm/trunk-jpl/src/mex/TriMeshRefine/TriMeshRefine.h A /issm/trunk-jpl/src/mex/TriMeshRifts/TriMeshRifts.cpp A /issm/trunk-jpl/src/mex/TriMeshRifts/TriMeshRifts.h M /issm/trunk-jpl/src/mex/TriaSearch/TriaSearch.cpp M /issm/trunk-jpl/src/mex/TriaSearch/TriaSearch.h  
M /issm/trunk-jpl/src/mex/UpdateConstraints/UpdateConstraints.cpp M /issm/trunk-jpl/src/mex/UpdateConstraints/UpdateConstraints.h M /issm/trunk-jpl/src/mex/UpdateDynamicConstraints/UpdateDynamicConstraints.cpp  
M /issm/trunk-jpl/src/mex/UpdateDynamicConstraints/UpdateDynamicConstraints.h  
M /issm/trunk-jpl/src/mex/UpdateVertexPositions/UpdateVertexPositions.cpp  
M /issm/trunk-jpl/src/mex/UpdateVertexPositions/UpdateVertexPositions.h M /issm/trunk-jpl/src/mex/VerticesDof/VerticesDof.cpp M /issm/trunk-jpl/src/mex/VerticesDof/VerticesDof.h  
M /issm/trunk-jpl/src/mex/Xy2ll/Xy2ll.cpp M /issm/trunk-jpl/src/mex/Xy2ll/Xy2ll.h  
New FetchData and WriteData interface

**Change #2** with diff file ISSM-11933-11934.diff:

Function name:

M /issm/trunk-jpl/src/mex M /issm/trunk-jpl/src/mex/AddExternalResult/AddExternalResult.cpp  
M /issm/trunk-jpl/src/mex/AddExternalResult/AddExternalResult.h M /issm/trunk-jpl/src/mex/AverageFilter/AverageFilter.cpp M /issm/trunk-jpl/src/mex/AverageFilter/AverageFilter.h  
M /issm/trunk-jpl/src/mex/BamgConvertMesh/BamgConvertMesh.cpp M /issm/trunk-jpl/src/mex/BamgConvertMesh/BamgConvertMesh.h M /issm/trunk-jpl/src/mex/BamgMesher/BamgMesher.cpp  
M /issm/trunk-jpl/src/mex/BamgTriangulate/BamgTriangulate.cpp M /issm/trunk-jpl/src/mex/BamgTriangulate/BamgTriangulate.h M /issm/trunk-jpl/src/mex/Chaco/Chaco.cpp  
M /issm/trunk-jpl/src/mex/Chaco/Chaco.h M /issm/trunk-jpl/src/mex/ComputeBasalStress/ComputeBasalStress.cpp M /issm/trunk-jpl/src/mex/ComputeBasalStress/ComputeBasalStress.h  
M /issm/trunk-jpl/src/mex/ConfigureObjects/ConfigureObjects.cpp M /issm/trunk-jpl/src/mex/ConfigureObjects/ConfigureObjects.h  
M /issm/trunk-jpl/src/mex/ConstraintsState/ConstraintsState.cpp M /issm/trunk-jpl/src/mex/ConstraintsState/ConstraintsState.h M /issm/trunk-jpl/src/mex/ContourToMesh/ContourToMesh.cpp  
M /issm/trunk-jpl/src/mex/ContourToMesh/ContourToMesh.h M /issm/trunk-jpl/src/mex/ContourToNodes/ContourToNodes.cpp M /issm/trunk-jpl/src/mex/ContourToNodes/ContourToNodes.h  
M /issm/trunk-jpl/src/mex/ControlInputGetGradient/ControlInputGetGradient.cpp M /issm/trunk-jpl/src/mex/ControlInputGetGradient/ControlInputGetGradient.h  
M /issm/trunk-jpl/src/mex/ControlInputScaleGradient/ControlInputScaleGradient.cpp M /issm/trunk-jpl/src/mex/ControlInputScaleGradient/ControlInputScaleGradient.h  
M /issm/trunk-jpl/src/mex/ControlInputSetGradient/ControlInputSetGradient.cpp M /issm/trunk-jpl/src/mex/ControlInputSetGradient/ControlInputSetGradient.h  
M /issm/trunk-jpl/src/mex/ControlOptimization/ControlOptimization.cpp M /issm/trunk-jpl/src/mex/ControlOptimization/ControlOptimization.h M /issm/trunk-jpl/src/mex/CostFunction/CostFunction.cpp  
M /issm/trunk-jpl/src/mex/CostFunction/CostFunction.h M /issm/trunk-jpl/src/mex/CreateJacobianMatrix/CreateJacobianMatrix.cpp M /issm/trunk-jpl/src/mex/CreateJacobianMatrix/CreateJacobianMatrix.h  
M /issm/trunk-jpl/src/mex/CreateNodalConstraints/CreateNodalConstraints.cpp M /issm/trunk-jpl/src/mex/CreateNodalConstraints/CreateNodalConstraints.h  
M /issm/trunk-jpl/src/mex/Dakota/Dakota.h M /issm/trunk-jpl/src/mex/DakotaResponses/DakotaResponses.cpp M /issm/trunk-jpl/src/mex/DakotaResponses/DakotaResponses.h  
M /issm/trunk-jpl/src/mex/Echo/Echo.cpp M /issm/trunk-jpl/src/mex/Echo/Echo.h M /issm/trunk-jpl/src/mex/ElementConnectivity/ElementConnectivity.cpp M /issm/trunk-jpl/src/mex/ElementConnectivity/ElementConnectivity.h  
M /issm/trunk-jpl/src/mex/EnumToString/EnumToString.cpp M /issm/trunk-jpl/src/mex/EnumToString/EnumToString.h M /issm/trunk-jpl/src/mex/Exp2Kml/Exp2Kml.cpp  
M /issm/trunk-jpl/src/mex/Exp2Kml/Exp2Kml.h M /issm/trunk-jpl/src/mex/GetSolutionFromInputs/GetSolutionFromInputs.cpp M /issm/trunk-jpl/src/mex/GetSolutionFromInputs/GetSolutionFromInputs.h  
M /issm/trunk-jpl/src/mex/GetVectorFromInputs/GetVectorFromInputs.cpp M /issm/trunk-jpl/src/mex/GetVectorFromInputs/GetVectorFromInputs.h M /issm/trunk-jpl/src/mex/Gradj/Gradj.cpp  
M /issm/trunk-jpl/src/mex/Gradj/Gradj.h M /issm/trunk-jpl/src/mex/GroundinglineMigration/GroundinglineMigration.cpp M /issm/trunk-jpl/src/mex/GroundinglineMigration/GroundinglineMigration.h  
M /issm/trunk-jpl/src/mex/HoleFiller/HoleFiller.cpp M /issm/trunk-jpl/src/mex/HoleFiller/HoleFiller.h  
M /issm/trunk-jpl/src/mex/InputControlUpdate/InputControlUpdate.cpp M /issm/trunk-jpl/src/mex/InputControlUpdate/InputControlUpdate.h M /issm/trunk-jpl/src/mex/InputConvergence/InputConvergence.cpp  
M /issm/trunk-jpl/src/mex/InputConvergence/InputConvergence.h M /issm/trunk-

jpl/src/mex/InputDuplicate/InputDuplicate.cpp M /issm/trunk-jpl/src/mex/InputDuplicate/InputDuplicate.  
 M /issm/trunk-jpl/src/mex/InputScale/InputScale.cpp M /issm/trunk-jpl/src/mex/InputScale/InputScale.h  
 M /issm/trunk-jpl/src/mex/InputToResult/InputToResult.cpp M /issm/trunk-  
 jpl/src/mex/InputToResult/InputToResult.h M /issm/trunk-jpl/src/mex/InputUpdateFromConstant/InputU  
 M /issm/trunk-jpl/src/mex/InputUpdateFromConstant/InputUpdateFromConstant.h  
 M /issm/trunk-jpl/src/mex/InputUpdateFromDakota/InputUpdateFromDakota.cpp  
 M /issm/trunk-jpl/src/mex/InputUpdateFromDakota/InputUpdateFromDakota.h  
 M /issm/trunk-jpl/src/mex/InputUpdateFromSolution/InputUpdateFromSolution.cpp  
 M /issm/trunk-jpl/src/mex/InputUpdateFromSolution/InputUpdateFromSolution.h  
 M /issm/trunk-jpl/src/mex/InputUpdateFromVector/InputUpdateFromVector.cpp  
 M /issm/trunk-jpl/src/mex/InputUpdateFromVector/InputUpdateFromVector.h  
 M /issm/trunk-jpl/src/mex/InternalFront/InternalFront.cpp M /issm/trunk-jpl/src/mex/InternalFront/Intern  
 M /issm/trunk-jpl/src/mex/InterpFromGridToMesh/InterpFromGridToMesh.cpp  
 M /issm/trunk-jpl/src/mex/InterpFromGridToMesh/InterpFromGridToMesh.h  
 M /issm/trunk-jpl/src/mex/InterpFromMesh2d/InterpFromMesh2d.cpp M /issm/trunk-  
 jpl/src/mex/InterpFromMesh2d/InterpFromMesh2d.h M /issm/trunk-jpl/src/mex/InterpFromMeshToGrid/In  
 M /issm/trunk-jpl/src/mex/InterpFromMeshToGrid/InterpFromMeshToGrid.h  
 M /issm/trunk-jpl/src/mex/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.cpp  
 M /issm/trunk-jpl/src/mex/InterpFromMeshToMesh2d/InterpFromMeshToMesh2d.h  
 M /issm/trunk-jpl/src/mex/InterpFromMeshToMesh3d/InterpFromMeshToMesh3d.cpp  
 M /issm/trunk-jpl/src/mex/InterpFromMeshToMesh3d/InterpFromMeshToMesh3d.h  
 M /issm/trunk-jpl/src/mex/KMLFileRead/KMLFileRead.cpp M /issm/trunk-  
 jpl/src/mex/KMLFileRead/KMLFileRead.h M /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLMeshWrite.cp  
 M /issm/trunk-jpl/src/mex/KMLMeshWrite/KMLMeshWrite.h M /issm/trunk-  
 jpl/src/mex/KMLOverlay/KMLOverlay.cpp M /issm/trunk-jpl/src/mex/KMLOverlay/KMLOverlay.h  
 M /issm/trunk-jpl/src/mex/Kml2Exp/Kml2Exp.cpp M /issm/trunk-jpl/src/mex/Kml2Exp/Kml2Exp.h  
 M /issm/trunk-jpl/src/mex/Ll2xy/Ll2xy.cpp M /issm/trunk-jpl/src/mex/Ll2xy/Ll2xy.h  
 M /issm/trunk-jpl/src/mex/Makefile.am M /issm/trunk-jpl/src/mex/Mergesolutionfromftog/Mergesolutionfro  
 M /issm/trunk-jpl/src/mex/Mergesolutionfromftog/Mergesolutionfromftog.h M  
 /issm/trunk-jpl/src/mex/MeshPartition/MeshPartition.cpp M /issm/trunk-jpl/src/mex/MeshPartition/Mesh  
 M /issm/trunk-jpl/src/mex/MeshProfileIntersection/MeshProfileIntersection.cpp  
 M /issm/trunk-jpl/src/mex/MeshProfileIntersection/MeshProfileIntersection.h  
 M /issm/trunk-jpl/src/mex/ModelProcessor/ModelProcessor.cpp M /issm/trunk-  
 jpl/src/mex/ModelProcessor/ModelProcessor.h M /issm/trunk-jpl/src/mex/NodeConnectivity/NodeConnecti  
 M /issm/trunk-jpl/src/mex/NodeConnectivity/NodeConnectivity.h M /issm/trunk-  
 jpl/src/mex/NodesDof/NodesDof.cpp M /issm/trunk-jpl/src/mex/NodesDof/NodesDof.h  
 M /issm/trunk-jpl/src/mex/Orth/Orth.cpp M /issm/trunk-jpl/src/mex/Orth/Orth.h  
 M /issm/trunk-jpl/src/mex/OutputResults/OutputResults.cpp M /issm/trunk-  
 jpl/src/mex/OutputResults/OutputResults.h M /issm/trunk-jpl/src/mex/OutputRifts/OutputRifts.cpp  
 M /issm/trunk-jpl/src/mex/OutputRifts/OutputRifts.h M /issm/trunk-jpl/src/mex/ParameterOutput/Param  
 M /issm/trunk-jpl/src/mex/ParameterOutput/ParameterOutput.h M /issm/trunk-  
 jpl/src/mex/ParsePetscOptions/ParsePetscOptions.cpp M /issm/trunk-jpl/src/mex/ParsePetscOptions/Parse  
 M /issm/trunk-jpl/src/mex/PointCloudFindNeighbors/PointCloudFindNeighbors.cpp  
 M /issm/trunk-jpl/src/mex/PointCloudFindNeighbors/PointCloudFindNeighbors.h  
 M /issm/trunk-jpl/src/mex/ProcessParams/ProcessParams.cpp M /issm/trunk-  
 jpl/src/mex/ProcessParams/ProcessParams.h M /issm/trunk-jpl/src/mex/PropagateFlagsFromConnectivity/

M /issm/trunk-jpl/src/mex/PropagateFlagsFromConnectivity/PropagateFlagsFromConnectivity.h  
M /issm/trunk-jpl/src/mex/Reduceload/Reduceload.cpp M /issm/trunk-jpl/src/mex/Reduceload/Reduceload.h  
M /issm/trunk-jpl/src/mex/Reducevectorgtof/Reducevectorgtof.cpp M /issm/trunk-jpl/src/mex/Reducevectorgtof/Reducevectorgtof.h M /issm/trunk-jpl/src/mex/Reducevectorgtos/Reducevectorgtos.h M /issm/trunk-jpl/src/mex/ResetCoordinateSystem/ResetCoordinateSystem.cpp M /issm/trunk-jpl/src/mex/ResetCoordinateSystem/ResetCoordinateSystem.h M /issm/trunk-jpl/src/mex/Response/Response.cpp M /issm/trunk-jpl/src/mex/Response/Response.h  
M /issm/trunk-jpl/src/mex/Scotch/Scotch.h M /issm/trunk-jpl/src/mex/Shp2Kml/Shp2Kml.cpp  
M /issm/trunk-jpl/src/mex/Shp2Kml/Shp2Kml.h M /issm/trunk-jpl/src/mex/Solver/Solver.cpp  
M /issm/trunk-jpl/src/mex/Solver/Solver.h M /issm/trunk-jpl/src/mex/SparseToVector/SparseToVector.h  
M /issm/trunk-jpl/src/mex/SpcNodes/SpcNodes.cpp M /issm/trunk-jpl/src/mex/SpcNodes/SpcNodes.h  
M /issm/trunk-jpl/src/mex/StringToEnum/StringToEnum.cpp M /issm/trunk-jpl/src/mex/StringToEnum/StringToEnum.h M /issm/trunk-jpl/src/mex/SurfaceArea/SurfaceArea.cpp  
M /issm/trunk-jpl/src/mex/SurfaceArea/SurfaceArea.h M /issm/trunk-jpl/src/mex/SystemMatrices/SystemMatrices.cpp M /issm/trunk-jpl/src/mex/SystemMatrices/SystemMatrices.h M /issm/trunk-jpl/src/mex/Test/Test.cpp M /issm/trunk-jpl/src/mex/TimeAdapt/TimeAdapt.cpp  
M /issm/trunk-jpl/src/mex/TimeAdapt/TimeAdapt.h M /issm/trunk-jpl/src/mex/TriMeshNoDensity/TriMeshNoDensity.h M /issm/trunk-jpl/src/mex/TriMeshProcessRifts/TriMeshProcessRifts.h M /issm/trunk-jpl/src/mex/TriMeshRefine/TriMeshRefine.h A /issm/trunk-jpl/src/mex/TriMeshRifts/TriMeshRifts.cpp A /issm/trunk-jpl/src/mex/TriMeshRifts/TriMeshRifts.h M /issm/trunk-jpl/src/mex/TriaSearch/TriaSearch.cpp M /issm/trunk-jpl/src/mex/TriaSearch/TriaSearch.h  
M /issm/trunk-jpl/src/mex/UpdateConstraints/UpdateConstraints.cpp M /issm/trunk-jpl/src/mex/UpdateConstraints/UpdateConstraints.h M /issm/trunk-jpl/src/mex/UpdateDynamicConstraints/UpdateDynamicConstraints.h  
M /issm/trunk-jpl/src/mex/UpdateVertexPositions/UpdateVertexPositions.cpp  
M /issm/trunk-jpl/src/mex/UpdateVertexPositions/UpdateVertexPositions.h M /issm/trunk-jpl/src/mex/VerticesDof/VerticesDof.cpp M /issm/trunk-jpl/src/mex/VerticesDof/VerticesDof.h  
M /issm/trunk-jpl/src/mex/Xy2ll/Xy2ll.cpp M /issm/trunk-jpl/src/mex/Xy2ll/Xy2ll.h  
Export determination: 6.  
Rationale: New FetchData and WriteData interface M /issm/trunk-jpl/src/c/io/Matlab/FetchMatlabData.cpp  
M /issm/trunk-jpl/src/c/io/Matlab/OptionParse.cpp M /issm/trunk-jpl/src/c/io/Matlab/WriteMatlabData.cpp  
M /issm/trunk-jpl/src/c/io/Matlab/matlabio.h M /issm/trunk-jpl/src/c/io/PrintfFunction.cpp  
A /issm/trunk-jpl/src/c/io/Python A /issm/trunk-jpl/src/c/io/Python/FetchPythonData.cpp  
A /issm/trunk-jpl/src/c/io/Python/WritePythonData.cpp A /issm/trunk-jpl/src/c/io/Python/pythonio.h  
M /issm/trunk-jpl/src/c/io/io.h Redesign interface API to add Python

**Change #3** with diff file ISSM-11934-11935.diff:

Function name:

M /issm/trunk-jpl/src/c/io/Matlab/FetchMatlabData.cpp M /issm/trunk-jpl/src/c/io/Matlab/OptionParse.cpp  
M /issm/trunk-jpl/src/c/io/Matlab/WriteMatlabData.cpp M /issm/trunk-jpl/src/c/io/Matlab/matlabio.h  
M /issm/trunk-jpl/src/c/io/PrintfFunction.cpp A /issm/trunk-jpl/src/c/io/Python  
A /issm/trunk-jpl/src/c/io/Python/FetchPythonData.cpp A /issm/trunk-jpl/src/c/io/Python/WritePythonData.cpp  
A /issm/trunk-jpl/src/c/io/Python/pythonio.h M /issm/trunk-jpl/src/c/io/io.h

Export determination: 6.

Rationale: Redesign interface API to add Python M /issm/trunk-jpl/src/c/shared/Exp/DomainOutlineRead

M /issm/trunk-jpl/src/c/shared/Exp/exp.h M /issm/trunk-jpl/src/c/shared/Matlab/CheckNumMatlabArguments.cpp  
D /issm/trunk-jpl/src/c/shared/Matlab/ModuleBoot.cpp D /issm/trunk-jpl/src/c/shared/Matlab/ModuleEnd.cpp  
M /issm/trunk-jpl/src/c/shared/Matlab/matlabshared.h D /issm/trunk-jpl/src/c/shared/Matlab/mxGetFields.cpp  
A /issm/trunk-jpl/src/c/shared/Wrapper A /issm/trunk-jpl/src/c/shared/Wrapper/ModuleBoot.cpp  
A /issm/trunk-jpl/src/c/shared/Wrapper/ModuleEnd.cpp A /issm/trunk-jpl/src/c/shared/Wrapper/wrapper.cpp  
M /issm/trunk-jpl/src/c/shared/shared.h Sent ModuleEnd and ModuleBoot to Wrapper (not Matlab related). New DomainOutlineRead overloaded prototype to return a dataset.

#### **Change #4** with diff file ISSM-11935-11936.diff:

Function name:

M /issm/trunk-jpl/src/c/shared/Exp/DomainOutlineRead.cpp M /issm/trunk-jpl/src/c/shared/Exp/exp.h M /issm/trunk-jpl/src/c/shared/Matlab/CheckNumMatlabArguments.cpp  
D /issm/trunk-jpl/src/c/shared/Matlab/ModuleBoot.cpp D /issm/trunk-jpl/src/c/shared/Matlab/ModuleEnd.cpp  
M /issm/trunk-jpl/src/c/shared/Matlab/matlabshared.h D /issm/trunk-jpl/src/c/shared/Matlab/mxGetFields.cpp  
A /issm/trunk-jpl/src/c/shared/Wrapper A /issm/trunk-jpl/src/c/shared/Wrapper/ModuleBoot.cpp  
A /issm/trunk-jpl/src/c/shared/Wrapper/ModuleEnd.cpp A /issm/trunk-jpl/src/c/shared/Wrapper/wrapper.cpp  
M /issm/trunk-jpl/src/c/shared/shared.h

Export determination: 6.

Rationale: Sent ModuleEnd and ModuleBoot to Wrapper (not Matlab related). New DomainOutlineRead overloaded prototype to return a dataset. M /issm/trunk-jpl/src/c/objects/Bamg/BamgGeom.cpp M /issm/trunk-jpl/src/c/objects/Bamg/BamgMesh.cpp  
M /issm/trunk-jpl/src/c/objects/Bamg/BamgOpts.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/BoolExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleExternalResult.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleMatExternalResult.h  
M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleVecExternalResult.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleVecExternalResult.h  
M /issm/trunk-jpl/src/c/objects/ExternalResults/IntExternalResult.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/IntExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/PetscVecExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/StringExternalResult.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/StringExternalResult.h M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.h M /issm/trunk-jpl/src/c/objects/Params/BoolParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatArrayParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatParam.cpp M /issm/trunk-jpl/src/c/objects/Params/DoubleParam.cpp M /issm/trunk-jpl/src/c/objects/Params/DoubleVecParam.h M /issm/trunk-jpl/src/c/objects/Params/FileParam.h M /issm/trunk-jpl/src/c/objects/Params/IntMatParam.h M /issm/trunk-jpl/src/c/objects/Params/IntParam.h M /issm/trunk-jpl/src/c/objects/Params/IntVecParam.h M /issm/trunk-jpl/src/c/objects/Params/MatrixParam.h M /issm/trunk-jpl/src/c/objects/Params/StringParam.h

M /issm/trunk-jpl/src/c/objects/Params/StringArrayParam.h M /issm/trunk-jpl/src/c/objects/Params/StringParam.cpp M /issm/trunk-jpl/src/c/objects/Params/StringParam.h M /issm/trunk-jpl/src/c/objects/Params/VectorParam.cpp M /issm/trunk-jpl/src/c/objects/Params/VectorParam.h  
New FetchData and WriteData routines

**Change #5** with diff file ISSM-11936-11937.diff:

Function name:

M /issm/trunk-jpl/src/c/objects/Bamg/BamgGeom.cpp M /issm/trunk-jpl/src/c/objects/Bamg/BamgMesh.cpp M /issm/trunk-jpl/src/c/objects/Bamg/BamgOpts.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/BoolExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleExternalResult.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleMatExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleVecExternalResult.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/DoubleVecExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/IntExternalResult.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/IntExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/PetscVecExternalResult.h M /issm/trunk-jpl/src/c/objects/ExternalResults/StringExternalResult.cpp M /issm/trunk-jpl/src/c/objects/ExternalResults/StringExternalResult.h M /issm/trunk-jpl/src/c/objects/Numerics/Matrix.h M /issm/trunk-jpl/src/c/objects/Params/BoolParam.cpp M /issm/trunk-jpl/src/c/objects/Params/BoolParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatArrayParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleMatParam.cpp M /issm/trunk-jpl/src/c/objects/Params/DoubleMatParam.h M /issm/trunk-jpl/src/c/objects/Params/DoubleParam.cpp M /issm/trunk-jpl/src/c/objects/Params/DoubleVecParam.cpp M /issm/trunk-jpl/src/c/objects/Params/DoubleVecParam.h M /issm/trunk-jpl/src/c/objects/Params/FileParam.cpp M /issm/trunk-jpl/src/c/objects/Params/FileParam.h M /issm/trunk-jpl/src/c/objects/Params/IntMatParam.h M /issm/trunk-jpl/src/c/objects/Params/IntParam.h M /issm/trunk-jpl/src/c/objects/Params/IntVecParam.h M /issm/trunk-jpl/src/c/objects/Params/MatrixParam.h M /issm/trunk-jpl/src/c/objects/Params/StringArrayParam.h M /issm/trunk-jpl/src/c/objects/Params/StringParam.cpp M /issm/trunk-jpl/src/c/objects/Params/StringParam.h M /issm/trunk-jpl/src/c/objects/Params/VectorParam.cpp M /issm/trunk-jpl/src/c/objects/Params/VectorParam.h  
Export determination: 6.  
Rationale: New FetchData and WriteData routines M /issm/trunk-jpl/m4/issm\_options.m4  
New Matlab 2012

**Change #6** with diff file ISSM-11937-11938.diff:

Function name:

M /issm/trunk-jpl/m4/issm\_options.m4  
Export determination: 6.  
Rationale: New Matlab 2012 M /issm/trunk-jpl/src/m/model/mesh/triangle.m  
New prototype for TriMesh

**Change #7** with diff file ISSM-11938-11939.diff:

Function name:

M /issm/trunk-jpl/src/m/model/mesh/triangle.m

Export determination: 6.

Rationale: New prototype for TriMesh M /issm/trunk-jpl/src/c/toolkits/python/pythonincludes.h

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

**Change #8** with diff file ISSM-11939-11940.diff:

Function name:

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

Export determination: 6.

Rationale: New Python toolkit M /issm/trunk-jpl/src/c/toolkits/petsc/patches/PetscMatrixToMatlabMatrix.h

Fixed bug: do not use the transpose anymore

**Change #9** with diff file ISSM-11940-11941.diff:

Function name:

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

Export determination: 6.

Rationale: Fixed bug: do not use the transpose anymore M /issm/trunk-jpl/src/c/toolkits/issm/SeqMat.cpp M /issm/trunk-jpl/src/c/toolkits/issm/SeqMat.h

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

/issm/trunk-jpl/src/c/toolkits/petsc/patches/petscpatches.h M /issm/trunk-jpl/src/c/toolkits/toolkitsenums.h

New Convert routine

**Change #10** with diff file ISSM-11941-11942.diff:

Function name:

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

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

/issm/trunk-jpl/src/c/toolkits/petsc/patches/petscpatches.h M /issm/trunk-jpl/src/c/toolkits/toolkitsenums.h

Export determination: 6.

Rationale: New Convert routine M /issm/trunk-jpl/src/c/include/globals.h Changed location of global variables from ModuleBoot to globals.h

**Change #11** with diff file ISSM-11942-11943.diff:

Function name:

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

Export determination: 6.

Rationale: Changed location of global variables from ModuleBoot to globals.h

M /issm/trunk-jpl/src/c/include/macros.h New macros for python and matlab wrappers

**Change #12** with diff file ISSM-11943-11944.diff:

Function name:

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

Export determination: 6.

Rationale: New macros for python and matlab wrappers M /issm/trunk-jpl/externalpackages/boost/install.sh

M /issm/trunk-jpl/externalpackages/matlab/install.sh M /issm/trunk-jpl/externalpackages/python/install.sh  
M /issm/trunk-jpl/externalpackages/scipy/install-macosx64.sh M /issm/trunk-jpl/externalpackages/triangle/install-macosx64.sh M /issm/trunk-jpl/src/c/Container/Options.cpp  
M /issm/trunk-jpl/src/c/Makefile.am M /issm/trunk-jpl/src/c/modules/TriMeshx/TriMeshx.cpp  
M /issm/trunk-jpl/src/c/modules/modules.h M /issm/trunk-jpl/src/py/model/petscversion.py  
Diverse

**Change #13** with diff file ISSM-11944-11945.diff:

Function name:

M /issm/trunk-jpl/externalpackages/boost/install.sh M /issm/trunk-jpl/externalpackages/matlab/install.sh  
M /issm/trunk-jpl/externalpackages/python/install.sh M /issm/trunk-jpl/externalpackages/scipy/install-macosx64.sh M /issm/trunk-jpl/externalpackages/triangle/install-macosx64.sh  
M /issm/trunk-jpl/src/c/Container/Options.cpp M /issm/trunk-jpl/src/c/Makefile.am  
M /issm/trunk-jpl/src/c/modules/TriMeshx/TriMeshx.cpp M /issm/trunk-jpl/src/c/modules/modules.h  
M /issm/trunk-jpl/src/py/model/petscversion.py

Export determination: 6.

Rationale: Diverse M /issm/trunk-jpl/src/c/modules/ParsePetscOptionsx/ParsePetscOptionsx.cpp

Fixed warning