Manuscript prepared for Geosci. Model Dev.
with version 2015/04/24 7.83 Copernicus papers of the LATEX class copernicus.cls.
Date: 8 July 2016

immediate

1 Supplement

JavaScript compilation using ISSM is only supported on a subset of platforms. The port has been achieved on MacOSX platforms using the Emscripten suite of compilers, available at http://kripken.github.io/emscripten-site. Here, we present the specific set of instructions regarding installation of ISSM with JavaScript

5 support. They build on the instructions for installation of the regular ISSM package, which can be found at http://issm.jpl.nasa.gov/download/

The main difference when dealing with compiling ISSM with JavaScript support turned on lies in the specific configuration that uses the Emscripten compiler. This configuration can be turned on by using the following configure arguments during the ISSM configuration phase:

```
10  #/bin/bash
    export CC=emcc
    export CXX=em++

    ./configure --prefix="$ISSM_DIR/build-js" \
15  --srcdir="$ISSM_DIR" \
    --with-javascript \
    --disable-shared \
    --with-triangle-dir="$HOME/externalpackages/triangle/install-javascript" \
    --with-gsl-dir="$HOME/externalpackages/gsl/install-javascript" \
20  --without-kml\
    --without-kriging\
    --with-cxxoptflags="-O2 "
```

Once ISSM is configured correctly, the compilation can be triggered using the `make install` command. One can then test the ISSM JavaScript capabilities using the ISSM nightly run suite found

25 in the test/NightlyRuns sub-directory of the ISSM trunk. All tests that end up with a JavaScript extension (.js) have been used for validation of the ISSM JavaScript capabilities. They provide a good starting point for users to build on.