Work Log for October

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October 7, 2014

1 Week of October 6th-10th

1.1 Goals for the Week

1. Fix PSUADE 1.7.2 on Darter

2. Attempt ar addition of main to libpsuade.so

3. if ar fails, find other methods to build the psuade module

1.2 Progress/Notes

1.2.1 Fix PSUADE 1.7.2 on Darter

1.2.2 Use Dummy Main

See Src/dummyPsuade.cpp and dummyMain.cpp

1.2.3 Circle Packing Genetic Algorithm

Use a Matlab to c++ script, then add a genetic algorithm. Forget Dakota.

1.2.4 Attempt ar addition of main to libpsuade.so

ar can only be used to generate .a files, not shared .so libraries. Jason says this may not be a problem. Static libraries are faster, and Cray systems (darter) have limited support for shared objects.

Attempt 1: Go to Makefile.in in Main. during the PSUADE make step, after PSUADE.o but before compiling the binary, add 'ar rvs libIELPsuade.a _____.o'

r - insert into an archive with replacement

v - verbose

s - 'Write an object-file index into the archive, or update an existing one, even if no other change is made to the archive.'

Attempt 2: Go to build/CMakeFiles/psuade-bin.dir/build.make line 59, and add after maing Psuade.cpp.o,

```
/usr/bin/c++    $(CXX_DEFINES) $(CXX_FLAGS)
      -o /home/lbrown/iel-2.0/PSUADE/Src/Main/Psuade.o
      -c /home/lbrown/iel-2.0/PSUADE/Src/Main/Psuade.cpp
/usr/bin/c++    $(CXX_DEFINES) $(CXX_FLAGS)
      -o /home/lbrown/iel-2.0/PSUADE/Src/Main/IELPsuade.o
      -c /home/lbrown/iel-2.0/PSUADE/Src/Main/IELPsuade.cpp
```

1.2.5   if ar fails, find other methods to build the psuade module

1.3   Goals for next Week

1. Future Goal