Work Log for September

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5 Week of September 29th-October 3rd

5.1 Goals for the Week

1. PSUADE 1.7.2 on Darter

2. PSUADE Module that runs as usual

3. Figure out Command Line arguments for DIEL

4. Find out what's going on with DAKOTA calling PSUADE

5.2 Progress/Notes

5.2.1 PSUADE 1.7.2 on Darter

5.2.2 PSUADE Module that runs as usual

Building the module comes up with the following error

```
[ 97%] Building CXX object CMakeFiles/psuade-bin.dir/Src/Main/Psuade.cpp.o
In file included from /home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/
                 from /home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/
                 from /home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/
                 from /home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/
                 from /home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/Psuade.cpp:54:
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
 char**&)' conflicts with
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
(int&, char**&, int)' conflicts with
```

```
/home/lbrown/modulecode/PSUADE_v1.7.2/Src/Main/../../../../iel-2.0/EXECUTIVE/HYBRID/IEL_
' here
make[2]: *** [CMakeFiles/psuade-bin.dir/Src/Main/Psuade.cpp.o] Error 1
make[1]: *** [CMakeFiles/psuade-bin.dir/all] Error 2
```

I think it's caused by things (such as INT, FLOAT, DOUBLE, and SUCCESS) being declared elsewhere in PSUADE, then being linked to in MPICXX. ~~I've tried setting the compiler flags in CMakeCache.txt, but no such luck.~~

Solution! cmake -DMPICH_SKIP_MPICXX

Also did the cmake library path this way.

ALSO

To fix the grand scheme, use ar command to attach psuademodule function onto libpsuade.so

5.2.3 Figure out Command Line arguments for DIEL

5.2.4 Find out what's going on with DAKOTA calling PSUADE

5.3 Goals for next 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