

Research Report

Thursday 11/07/2013

Wei Wang

review of the issues to solve/What I needed to do

- Needed to prepare and ship to you "one-icon click" version of Cygwin PoCC
- Needed to make MinGW work
- Others
 - Plos ONE (cardiac)
 - Lulesh (using INRIA PPCG)
 - PNNL benchmark

Progress on Windows PoCC

- Standalone Cygwin PoCC successfully prepared
 - This involved finding out what dlls and exe files (providing bash system on windows) are needed to enable a standalone version
 - Tested with different Windows platform on gemver.c (default test file)
- MinGW PoCC: not successful
 - Existing components of PoCC rely on POSIX compliant implementations offered by fork, wait, and pipe
 - MinGW, being minimalist GNU for Windows, just doesn't support the calls
 - PoCC has many places of calling posix functions like fork,pipe,and wait

The plan

- Focus on writing the 2-pager summarizing the work in the past 2-3 months.
 - Mini version of IMPACT submission
 - Brief mention of Windows version Polyhedral compiler
- Need also to work on PloS ONE re-submission (hopefully can put an end to the project)
 - Spend a few time on improving OpenACC performance on MIC (if not successful, should also be fine)
 - Text Edits