

Research Report

Thursday 10/31/2013

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

- Needed to make progress on Polyhedral compilers on Windows
- Needed to prepare some slides accompanying SC'13 UD Booth poster
- Others
 - Plos ONE (cardiac)
 - Lulesh (using INRIA PPCG)
 - PNNL benchmark

Windows Polyhedral Compilers

- No working version yet (Thursday 10/31)
 - 1. Cygwin Full Installation
 - 2. PoCC 1.2
 - 3. Fixed only two of three issues, when compiling PoCC in Cygwin (stumbling at the third issue)
 - Default Perl version in Cygwin too high, resolved by installing perl 5.10
 - two similar components have the same trivial variable array declared (resolved by manual renaming)
 - **THIRD one: not able to resolve yet. Building clasttool components needed dynamic libraries (e.g. -lcloog-isl, -lpast), however PoCC compilation in Cygwin cannot generate dynamic libraries (dll?), native linux generated libcloog-isl.so and libpast.so**

Others

- Prepared slides for SC13 UD Booth that go with the poster
- Others: no progress except cleaned up all results relating to IMPACT submission

The plan

- Figure out how to generate .so counter part in Cygwin for components like cloog, past etc.
- Try to compile component by component
- Learn how to develop DLLs in Windows Environment and apply to all components of PoCC?
- Turn to PPCG and use Visual Studio 2013?
- Need to work for the resubmission of PlosONE (30 days passed, recommended 45 days resubmission)