

Research Report

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Review of the issues

- New: Reconstruct from new code (John2)
- New: Cardiac Journal Final Format Due 12/23 midnight
- New: look at financial code NLR reconstruction
- Reconstruct triangle loop bounds
 - make NLR more smart by ensuring line information is read and used
- Energy Tuning Project
 - Lulesh benchmark using PPCG
 - PNNL benchmark

Progress

- NLR Output + Manual non-significant change generated a valid scop
 - Need to distinguish $\text{Read}(i)$ from $\text{Read}(\text{value})$
E.g. $A[i] = \text{value}$, how to tell i from value ? Current solution: manual intervention
 - Need to output a statement, not just an access (current solution: manual intervention)
E.g. $A[i] = 0$, should not just dump write $A[i]$ (either the trace, or the post processor must handle this)
 - Need to assess the quality (usefulness) of this technique (current research stopped at the dependency analysis phase of PoCC)

The Plan

- Finish Cardiac Journal Last Version Edits (format according to guidelines)
- Develop Automatic Way to handle newer memory trace format
- Look at Financial code and try to instrumente and run them