

# Research Report

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# What I needed to do

Think about alternative ways of algorithm re-implementation

Try Rose with the transformation on the bottle neck code.

# Progress & Problems

1. Inlined the code as the first step to get code to pass polyhedral framework
2. Set up ChiLL autotuning framework
  - This framework expects transformation recipes to be provided
  - Need to format the source code according to SUIF format

# The plan

For PNNL code, continue the effort to make it pass polyhedral framework

For energy-time relationship, re-run programs and get cache information to see if we can explain power jumps and build model to predict what optimizations can “rush to finish”.