

# Research Report

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# What I needed to do

Look at the other python-written auto-tuning framework developed by Argonne Research Scientist (now U. Oregon professor).

Get PAPI code run for covariance transformation

# Progress

## 1. U.Oregon Orio Autotuning Framework

- Src-to-src transformation tool
- Automatic Performance Tool
- Needs to test with PNNL code before Monday Meeting

## 2. PAPI code is running on elo

- Two runs takes about two full days
- Take average of the two runs
- Total instructions and Total cache accesses counter for covariance benchmark

# The plan

Test Orio Framework with some part of  
PNNL code

Analyze cache counter results vs power

Design Automation Conference 2014 SEAK  
workshop?