

McStas McXtrace



Team



Peter Willendrup
DTU / ESS DMSC



Mads Bertelsen
ESS DMSC



Gregory S Tucker
ESS DMSC



Emmanuel Farhi
Synchrotron SOLEIL



Tobias Weber
Institut Laue-Langevin



José Robledo
FZ Jülich / IAS / JSC

Team Mentors



Jan-Oliver Mirus
FZ Jülich / IAS / JSC

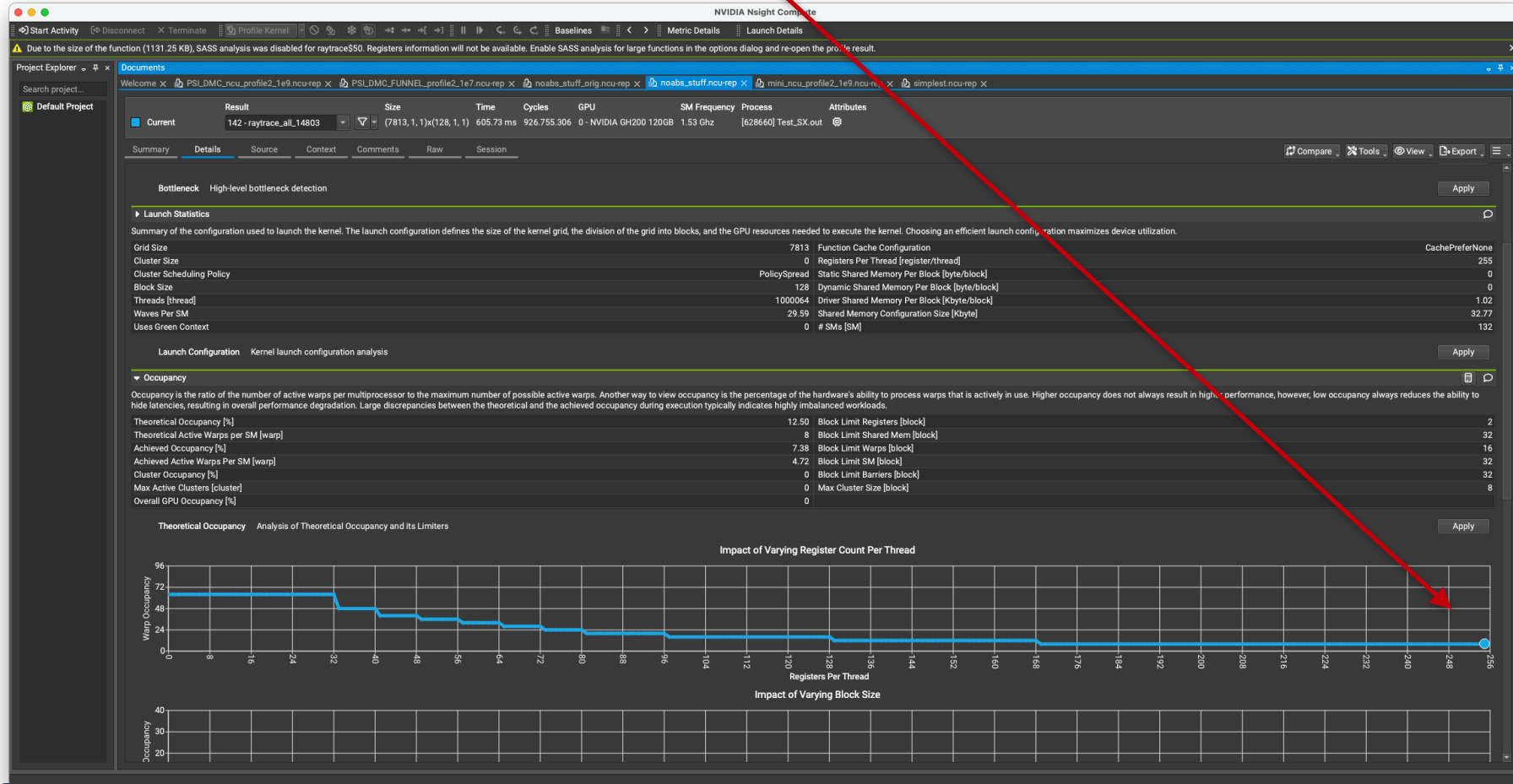


Ilya Zhukov
FZ Jülich / IAS / JSC

Profiler Output

We are likely blocked by our “arrays of struct”

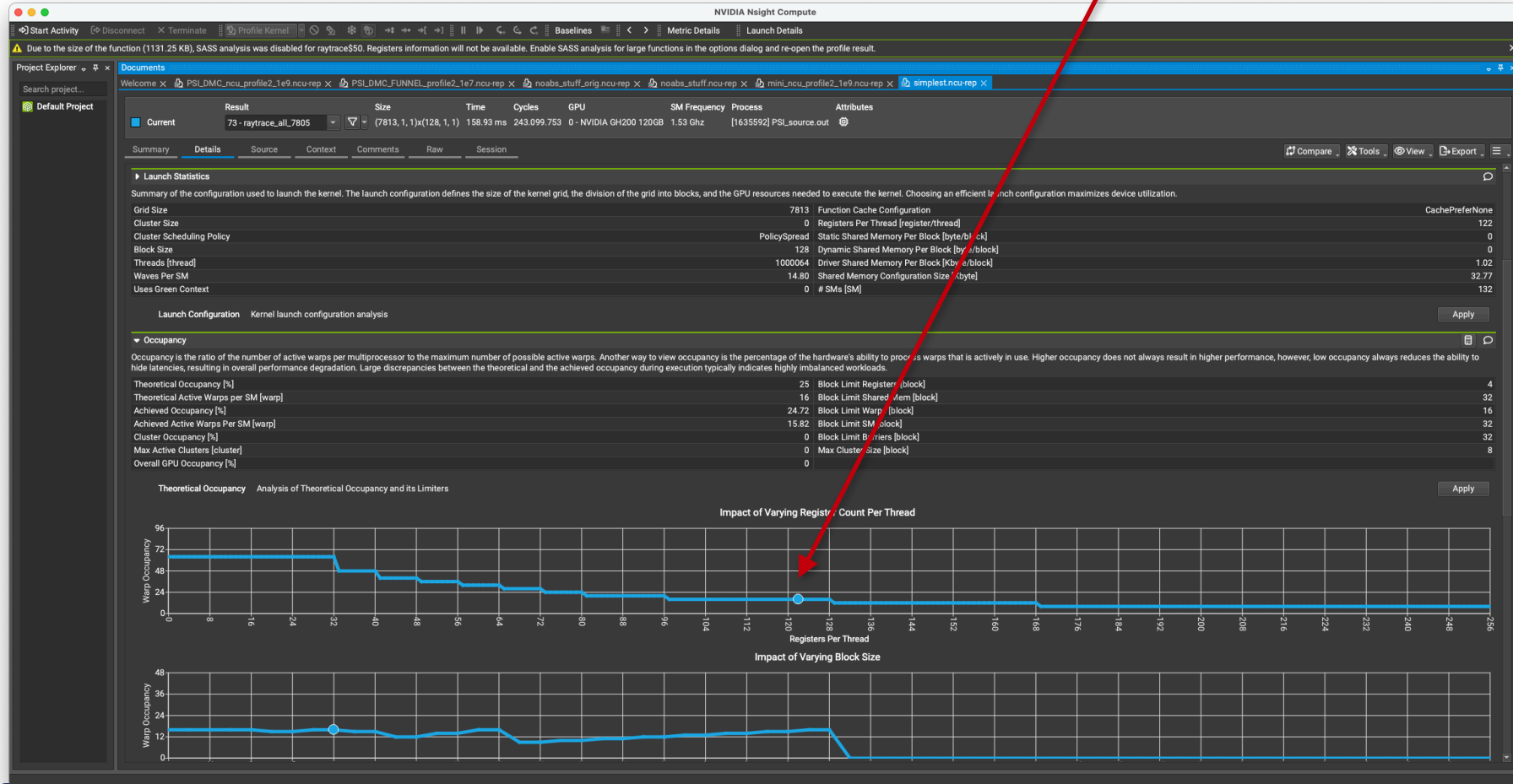
- Too many registers required pr. thread



Profiler Output

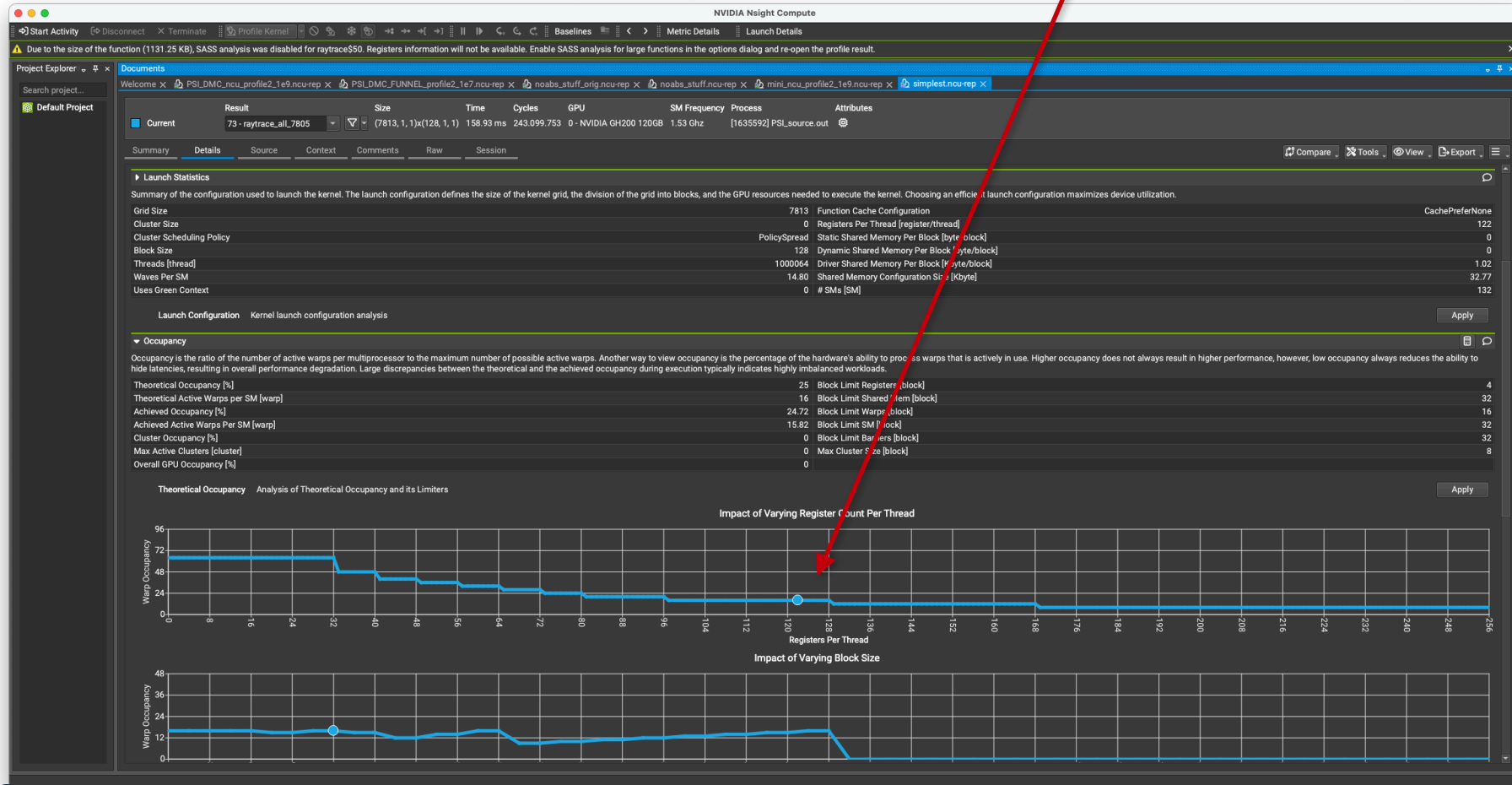
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Progress and Goals

- Tobias identified and corrected a thread race condition in a specific instrument / component
- Emmanuel tried chatbot hints for potential missing #pragma's in key component codes... “Not so easy” ;-)
- Goals for today:
 - More profiling
 - Experiments with ‘struct with arrays’ approach

Fixed race condition in resolution calculation #1929

Merged willend merged 4 commits into [Helmholtz-hackathon-2025](#) from [hackathon25-tobias](#) 2 minutes ago

Conversation 0 Commits 4 Checks 44 Files changed 3

tweber-III commented 2 minutes ago Member

No description provided.

tweber-III added 4 commits 1 hour ago

- Update cov-lib.h Verified ✓ 98bddab
- cov-lib: a) changed linked list to arrays; b) added checks Verified ✓ bd8a351
- Res_monitor.comp: fixed race condition Verified ✗ 198427e
- Res_monitor.comp: showing number of events Verified ● 3dc5e24

willend merged commit **5967238** into [Helmholtz-hackathon-2025](#) 2 minutes ago
3 of 44 checks passed View details Revert

Problems and Solutions

- Refactoring to try out a new overall code structure is challenging
 - Hack local c-file is error prone vs. lots of work needed to 'fully integrate'
 - Limit device-host-device transfers (only some data need to be loaded back to host)