

Performance Tools and Debugger: Introduction

Scott Parker, JaeHyuk Kwack
Argonne National Laboratory

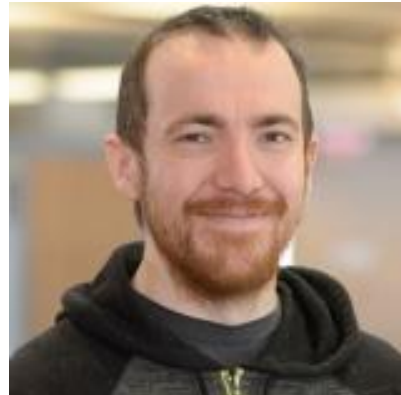
Team for Tools Track



Scott Parker
(Argonne)



JaeHyuk Kwack
(Argonne)



Thomas Applencourt
(Argonne)



Rudy Shand
(Linaro)



Sameer Shande
(U of Oregon)



John Mellor-Crummey
(Rice Univ.)

Agenda

Fri, Jul 31

8:30 a.m.

Track 5: HPC Tools and Debug

Introduction to HPC Tools

[JaeHyuk Kwack](#), Argonne National Laboratory

[Scott Parker](#), Argonne National Laboratory

HPC Tools and Debug

Session

8:40 a.m.

Track 5: HPC Tools and Debug

A Parallel Debugger at Scale — Linaro DDT

[Rudy Shand](#), Linaro

Lecture without hands-on

HPC Tools and Debug

Session

9:30 a.m.

Track 5: HPC Tools and Debug

A Community-Driven Portable Profiler at Scale — HPCToolkit

[John Mellor-Crummey](#), Rice University

Lecture without hands-on

HPC Tools and Debug

Session

10:20 a.m.

Break

10:50 a.m.

Track 5: HPC Tools and Debug

A Community-Driven Portable Profiler at Scale — Tau

[Sameer Shende](#), University of Oregon/ParaTools, Inc.

Lecture without hands-on

HPC Tools and Debug

Session

11:40 a.m.

Track 5: HPC Tools and Debug

Agenda

11:40 a.m.	Track 5: HPC Tools and Debug A Light-Weight Portable Profiler — iprof Thomas Applencourt, Argonne National Laboratory HPC Tools and DebugSession	Lecture without hands-on
12:00 p.m.	Track 5: HPC Tools and Debug Roofline Performance Model JaeHyuk Kwack, Argonne National Laboratory HPC Tools and DebugSession	Lecture without hands-on
12:30 p.m.	Lunch	
1:30 p.m.	Track 5: HPC Tools and Debug Tools Exercise HPC Tools and DebugSession	No demo by speakers, but speakers will help attendees in the room. Attendees can try hands-on examples from speakers or run their own applications with the tools.
3:30 p.m.	Break	
4:00 p.m.	Track 5: HPC Tools and Debug Tools Exercise (continued) HPC Tools and DebugSession	No demo by speakers, but speakers will help attendees in the room. Attendees can try hands-on examples from speakers or run their own applications with the tools.
6:30 p.m.	Adjourn (no dinner service provided.)	

Systems reservations

- ALCF system reservation for today
 - Aurora: 340 nodes, 8:30 am – 6:30 pm (-q ATPESC -A ATPESC2026)
 - Polaris: 64 nodes, 8:30 am – 6:30 pm (-q ATPESC -A ATPESC2026)
 - Night runs:
 - Aurora: 500 nodes, 9:30 pm – 6am (-q ATPESC-Night -A ATPESC2026)
 - Polaris: 64 nodes, 9:30 pm – 6am (-q ATPESC-Night -A ATPESC2026)
- OLCF Frontier system: a training token will automatically submit to the reservation (no reservation flag needed)
 - Up to 340 nodes
 - With project trn001 (-A trn001)
 - `$ salloc -A trn001 -t 1:00:00 -N 1`



Enjoy!

ARGONNE ATPESC2026 EXTREME - SCALE COMPUTING

ARGONNE TRAINING PROGRAM ON EXTREME-SCALE COMPUTING

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