
31. VI-HPS TUNING WORKSHOP



Virtual Institute - High Productivity Supercomputing

April 9-12, 2019

Introduction of Instructors

Tuesday	Brian Wylie Sameer Shende	Jülich Supercomputing Centre University of Oregon
Wednesday	Frank Winkler	Technische Universität Dresden
Thursday	Emmanuel Oseret Cedric Valensi Nick Forrington	Université de Versailles Saint-Quentin Université de Versailles Saint-Quentin ARM
Friday	Judit Giménez Germán Llort David Böhme	Barcelona Supercomputing Center Barcelona Supercomputing Center Lawrence Livermore National Laboratory

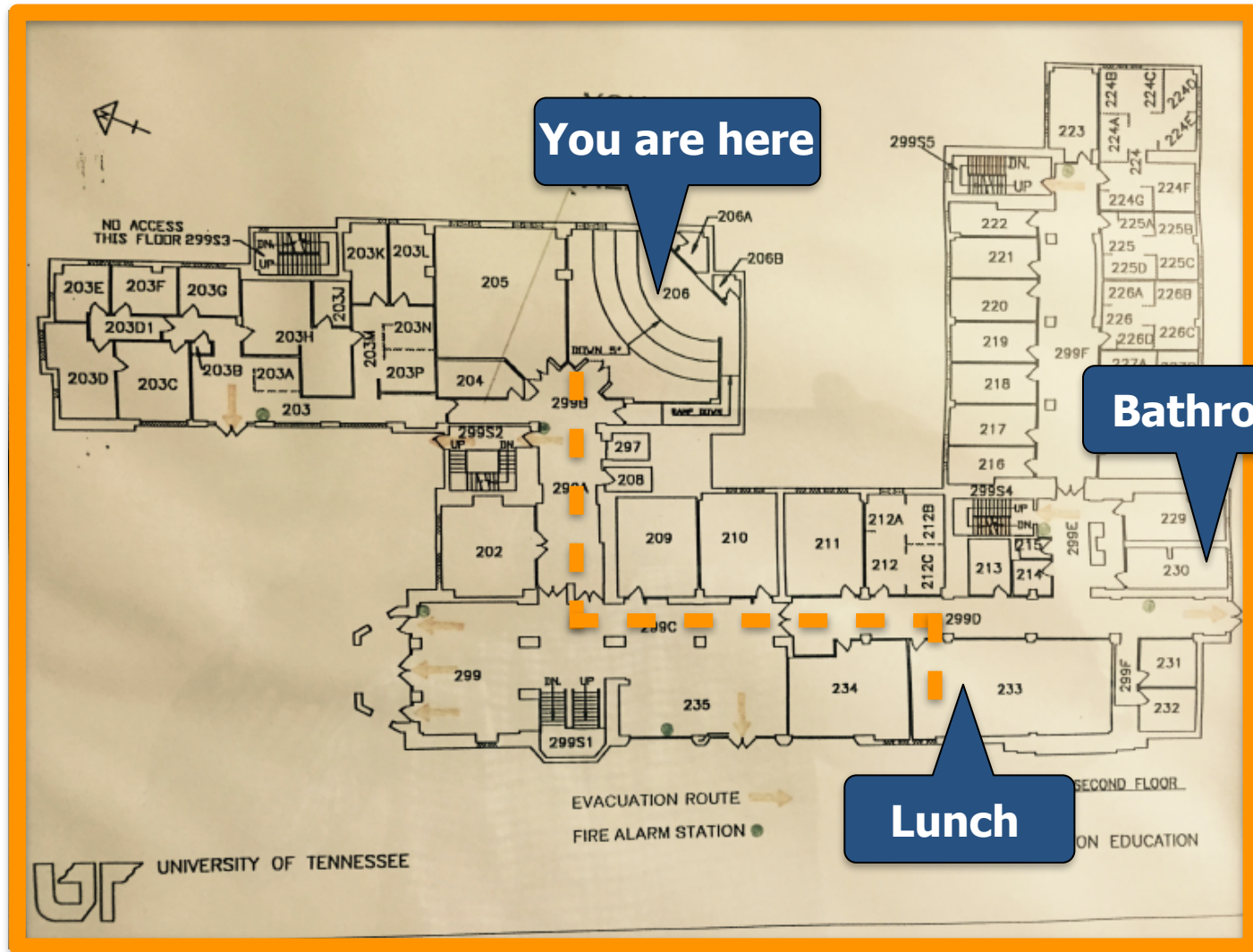
Wifi

- eduroam
- ut-visitor

Group picture before lunch outside in front of the building

Claxton Building 2nd Floor

VI-HPS



AGENDA Day 1: April 9



DAY 1	TUESDAY - APRIL 9
08:00	(breakfast)
09:00	Welcome Introduction to VI-HPS & overview of tools [Brian Wylie, JSC] Introduction to parallel performance engineering Lab setup Computer systems and software environment Building and running NPB-MZ-MPI/BT on Stampede2
10:30	(break)
10:45	TAU performance system [Sameer Shende, UOregon] TAU hands-on exercises
12:00	(lunch)
13:00	Hands-on coaching to apply tools to analyze participants' own code(s).
17:30	(adjourn)

AGENDA Day 2: April 10



DAY 2	WEDNESDAY - APRIL 10
08:00	(breakfast)
09:00	Score-P instrumentation & measurement toolset [JSC/TUDresden] Score-P hands-on exercises CUBE profile explorer hands-on exercises [Brian Wylie, JSC] Score-P analysis scoring & measurement filtering [JSC/TUDresden] Score-P specialized measurements
10:30	(break)
10:45	Scalasca automated trace analysis [Brian Wylie, JSC] Scalasca hands-on exercises Vampir interactive trace analysis [Frank Winkler, TUDresden] Vampir hands-on exercises
12:00	(lunch)
13:00	Hands-on coaching to apply tools to analyze participants' own code(s).
17:30	(adjourn)

AGENDA Day 3: April 11



DAY 3	THURSDAY - APRIL 11
08:00	(breakfast)
09:00	MAQAO performance analysis tools [Emmanuel Oseret & Cedric Valensi, UVSQ] MAQAO hands-on exercises
10:30	(break)
10:45	FORGE MAP & performance reports [Nick Forrington, ARM] ARM hands-on exercises
12:00	(lunch)
13:00	Hands-on coaching to apply tools to analyze participants' own code(s).
17:30	(adjourn)

AGENDA Day 4: April 12



DAY 4	FRIDAY - APRIL 12
08:00	(breakfast)
09:00	BSC tracing tools suite [Judit Giménez & German Llor, BSC] Paraver hands-on exercises
10:30	(break)
10:45	LLNL tools [David Böhme, LLNL] LLNL hands-on exercises
12:00	(lunch)
13:00	Hands-on coaching to apply tools to analyze participants' own code(s).
17:30	(adjourn)