44th VI-HPS Tuning Workshop

RWTH Aachen & ZIH TU Dresden, Germany,
26 February - 01 March 2024

http://www.vi-hps.org/training/tws/tw44.html

Thomas Gruber
Erlangen Computing Centre

**Markus Geimer
& Michael Knobloch**
Jülich Supercomputing Centre

**Cédric Valensi, Emmanuel Oseret
& Jäsper Ibnamar**
University of Versailles

**William Williams, Bert Wesarg
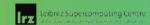& Christian von Elm**
Technische Universität Dresden

Sameer Shende
University of Oregon

Agenda (Monday)

Time	Topic	Presenter
09:00	Welcome;	Hermanns
	Introduction to VI-HPS & overview of tools	
	Introduction to parallel performance engineering	
	Lab setup; Building and running a code on CLAIX-2023 & Barnard	
10:30	*Break*	
11:00	Job Monitoring using PIKA (ZIH) and JMS (RWTH)	
	PIKA / JMS Hands-on exercises	
12:30	*Lunch*	
14:00	Hands-on coaching to port participants' own code(s) to the local systems	
17:30	*Adjourn*	

Agenda (Tuesday)

Time	Topic	Presenter
09:00	LIKWID Performance tool suite	Gruber
	LIKWID hands-on exercises	
10:30	*Break*	
11:00	MAQAO performance analysis framework	Valensi
	MAQAO hands-on exercises	Oseret & Ibnamar
12:30	*Lunch*	
14:00	Hands-on coaching to apply LIKWID & MAQAO to analyze your own code(s)	Gruber, Oseret, Ibnamar & Valensi
15:30	*Break*	
16:00	Hands-on coaching to apply LIKWID & MAQAO to analyze your own code(s)	Gruber, Oseret, Ibnamar & Valensi
17:30	*Adjourn*	

Agenda (Wednesday)

Time	Topic	Presenter
09:00	Score-P instrumentation & measurement	Williams
	CUBE profile explorer	Knobloch
10:30	*Break*	
11:00	Score-P specialized instrumentation and measurement	Wesarg
	Score-P/CUBE hands-on exercises	
12:30	*Lunch*	
14:00	Hands-on coaching to apply Score-P/CUBE to analyze your own code(s)	Williams, Knobloch & Wesarg
15:30	*Break*	
16:00	TAU performance system	Shende
	TAU hands-on exercises	
17:30	*Adjourn*	

Agenda (Thursday)

Time	Topic	Presenter
09:00	Scalasca automated trace analysis	Geimer & Knobloch
	Scalasca hands-on exercises	
10:30	*Break*	
11:00	Hands-on coaching to apply Score-P/Scalasca to analyze your own code(s)	Geimer, Williams, Knobloch & Wesarg
12:30	*Lunch*	
14:00	Hands-on coaching to apply Score-P/Scalasca to analyze your own code(s)	Geimer, Williams, Knobloch & Wesarg
15:30	*Break*	
16:00	Hands-on coaching to apply TAU to analyze your own code(s)	Shende
17:30	*Adjourn*	

Agenda (Friday)

Time	Topic	Presenter
09:00	Vampir interactive trace analysis	Wesarg
	Vampir hands-on exercises	
10:30	*Break*	
11:00	lo2s	Von Elm
	lo2s hands-on exercises	
	Workshop review	
12:30	*Lunch*	
14:00	Hands-on coaching to apply Vampir & lo2 to analyze your own code(s)	Wesarg & von Elm
15:30	*Break*	
16:00	Hands-on coaching to apply Vampir & lo2 to analyze your own code(s)	Wesarg & von Elm
17:30	*End of workshop*	