





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

Cédric Valensi, Emmanuel Oseret

& Jäsper Ibnamar

University of Versailles

William Williams, Bert Wesarg

& Christian von Elm

Technische Universität Dresden

Markus Geimer

& Michael Knobloch

Jülich Supercomputing Centre

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	Wesarg / Hermanns
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	

Workshop Communication

- Video Conference via Zoom:
 - https://rwth.zoom-x.de/j/68934817245?pwd=V3InMjh1THQ0SIFtbUZCVWpqWEoxdz09
 - Videostreaming of presentations
 - Breakout rooms for site-specific Job Monitoring Presentation
 - Breakout rooms for individual consulting during hands-on
- Q &A Chat via Slack:
 - https://join.slack.com/t/vihps-tw44/shared_invite/zt-2d7la6q1y-NlgMIKJq537ObLmHitLLXg
 - Different Channels for different topics
 - Please ask questions in the appropriate channels
 - Please anwer using threads
 - When a question is answered, react with a :white_check_mark:
 - Important information is pinned to the channel:

Workshop Material

- Presentation Slides:
 - Available via Sciebo Share: https://rwth-aachen.sciebo.de/s/Cr3AmeLRZdygGai
 - Also available via VI-HPS website (may need some time for updates)
- Hands-on Material:
 - Available on Sciebo Share
 - Available on \$VIHPS_ROOT/hands-on/ on both clusters
 - (after loading the VI-HPS tutorial environment)