37th VI-HPS Tuning Workshop

CSC, Germany, 07 - 11 December 2020 - Online

`http://www.vi-hps.org/training/tws/tw37.html`

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Jülich Supercomputing Centre

William Williams
Technische Universität Dresden

Marcus Ritter
Technische Universität Darmstadt

Agenda (Monday)

Time	Topic	Presenter
09:00	Welcome; Introduction to Zoom; The Goethe-HLR system	Gerbes & Valensi
	Introduction to VI-HPS & overview of tools	Valensi
	Introduction to parallel performance engineering	
	Lab setup; Building and running NPB/BT-MZ on Goethe-HLR	Schlütter
10:30	*Break*	
11:00	MAQAO x86 performance analysis tools	Oseret & Ibnamar
12:30	*Lunch*	
14:00	Hands-on coaching to apply MAQAO to analyze your own code(s)	Oseret & Ibnamar
15:30	*Break*	
16:00	TAU performance system	Shende
17:30	Review of day and schedule for remainder of workshop	
18:00	*Adjourn*	

Agenda (Tuesday)

Time	Topic	Presenter
09:00	PAPI hardware performance counters	Winkler
	PAPI hands-ons exercises	
10:30	*Break*	
11:00	LIKWID performance tool suite	Gruber
12:30	*Lunch*	
14:00	Hands-on coaching to apply LIKWID to analyze your own code(s)	Gruber
15:30	*Break*	
16:00	TAU performance system	Shende
17:30	Review of day and schedule for remainder of workshop	
18:00	*Adjourn*	

Agenda (Wednesday)

Time	Topic	Presenter
09:00	Score-P instrumentation & measurement	Schlütter
	CUBE profile explorer	Visser & Wylie
	Score-P analysis scoring & measurement filtering	Schlütter
10:30	*Break*	
11:00	Score-P specialized instrumentation and measurement	Schlütter & Wylie
12:30	*Lunch*	
14:00	Hands-on coaching to apply Score-P to analyze your own code(s)	Schlütter & Visser
15:30	*Break*	
16:00	Hands-on coaching to apply TAU to analyze your own code(s)	Shende
17:30	Review of day and schedule for remainder of workshop	
18:00	*Adjourn*	

Agenda (Thursday)

Time	Topic	Presenter
09:00	Scalasca automated trace analysis	Geimer
10:30	*Break*	
11:00	Vampir interactive trace analysis	Williams
	Hands-on coaching to apply Scalasca/Vampir to analyze your own code(s)	Geimer & Williams
12:30	*Lunch*	
14:00	Hands-on coaching to apply Scalasca/Vampir to analyze your own code(s)	Geimer & Williams
15:30	*Break*	
16:00	Hands-on coaching to apply tools to analyze your own code(s)	All
17:30	Review of day and schedule for remainder of workshop	
18:00	*Adjourn*	

Agenda (Friday)

Time	Topic	Presenter
09:00	Extra-P automated performance modeling	Ritter
	Extra-P hands-ons exercises	
	Review of the workshop	Valensi
10:30	*Break*	
11:00	Hands-on coaching to apply tools to analyze your own code(s)	All
12:30	*Lunch*	
14:00	Hands-on coaching to apply tools to analyze your own code(s)	All
16:00	*End of workshop*	