



40th VI-HPS Tuning Workshop

LRZ, Germany, 14 - 18 June 2021 - Online

<http://www.vi-hps.org/training/tws/tw40.html>

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Sameer Shende
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Technische Universität Darmstadt

Agenda (Monday)

Time	Topic	Presenter
09:00	Welcome; Introduction to Zoom; The IvyMUC system	Weinberg
	Introduction to VI-HPS & overview of tools	Valensi
	Introduction to parallel performance engineering	
	Lab setup; Building and running NPB/BT-MZ on IvyMUC	Knobloch
10:30	<i>Break</i>	
11:00	Preparation of participants' own codes on IvyMUC	
12:30	<i>Lunch</i>	
14:00	Callgrind + kCachegrind cache utilisation analysis	Weidendorfer
15:30	<i>Break</i>	
16:00	Hands-on coaching to apply Callgrind / kCachegrind to analyze your own code(s)	Weidendorfer
17:30	Review of day and schedule for remainder of workshop	
18:00	<i>Adjourn</i>	

Agenda (Tuesday)

Time	Topic	Presenter
09:00	MAQAO performance analysis framework	Ibnamar & Oseret
	MAQAO hands-on exercises	
10:30	<i>Break</i>	
11:00	BSC performance tools	Giménez & Mercadal
	BSC tools hands-on exercises	
12:30	<i>Lunch</i>	
14:00	Hands-on coaching to apply MAQAO to analyze your own code(s)	Ibnamar & Oseret
15:30	<i>Break</i>	
16:00	Hands-on coaching to apply BSC tools to analyze your own code(s)	Giménez & Mercadal
17:30	Review of day and schedule for remainder of workshop	
18:00	<i>Adjourn</i>	

Agenda (Wednesday)

Time	Topic	Presenter
09:00	Score-P instrumentation & measurement	Knobloch & Liem
	CUBE profile explorer	
10:10	<i>Break</i>	
10:40	Score-P specialized instrumentation and measurement	Knobloch & Liem
	Score-P/CUBE hands-on exercises	
12:30	<i>Lunch</i>	
14:00	Hands-on coaching to apply Score-P/CUBE to analyze your own code(s)	Knobloch & Liem & Wylie
15:30	<i>Break</i>	
16:00	TAU performance system	Shende
17:30	Review of day and schedule for remainder of workshop	
18:00	<i>Adjourn</i>	

Agenda (Thursday)

Time	Topic	Presenter
09:00	Scalasca automated trace analysis	Knobloch
10:30	<i>Break</i>	
11:00	Extra-P automated performance modeling	Ritter
	Extra-P hands-on exercises	
12:30	<i>Lunch</i>	
14:00	Hands-on coaching to apply Scalasca to analyze your own code(s)	Knobloch & Liem & Wylie
15:30	<i>Break</i>	
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	<i>Adjourn</i>	

Agenda (Friday)

Time	Topic	Presenter
09:00	mpiP lightweight MPI profiling	Schulz
	mpiP hands-on exercises	
10:30	Review of the workshop; Wrap-up	Valensi, Weinberg
10:45	<i>Break</i>	
11:00	Hands-on coaching to apply tools to analyze your own code(s)	All
12:30	<i>Lunch</i>	
14:00	Hands-on coaching to apply tools to analyze your own code(s)	All
16:00	<i>End of workshop</i>	