



Parallel Programming for Computational Engineering & Science

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HPC Seminar

March 12-16, 2018

IT Center RWTH Aachen University



	<i>Message Passing with MPI – Day I</i>	<i>Message Passing with MPI – Day II</i>	<i>Shared Memory Programming with OpenMP – Day I</i>	<i>Shared Memory Programming with OpenMP– Day II</i>	<i>GPGPU Programming with OpenACC</i>
	Mo, March 12	Tu, March 13	We, March 14	Th, March 15	Fr, March 16
9:00 - 10:30		MPI: Part II M.-A. Hermanns, JARA HPC / FZJ <u>45 min.</u> , Lab: MPI Part II	Introduction to Parallel Programming with OpenMP: Part I C. Terboven, RWTH Lab: OpenMP Part I	Advanced OpenMP Programming C. Terboven, RWTH Lab: OpenMP Part VI	GPU Introduction, OpenACC I Presentation + Lab S. Wienke, RWTH
10:30 - 11:00		coffee break	coffee break	coffee break	coffee break
11:00 - 12:30		MPI: Part III J. Protze, RWTH <u>45 min.</u> , Lab: MPI Part III	Introduction to Parallel Programming with OpenMP: Part II C. Terboven, RWTH Lab: OpenMP Part II	OpenMP wrap-up and Questions <u>30 min.</u> C. Terboven, RWTH OpenMP Lab Part VI or Hands-On Session “Bring Your Own Code”	OpenACC II Presentation + Lab S. Wienke, RWTH
12:30 - 14:00	lunch break	lunch break	lunch break	lunch break	lunch break
14:00 - 15:30	Welcome and Introduction <u>15 min.</u> MPI: Part I J. Protze, RWTH	Vampir <u>30 min.</u> , J. Protze, RWTH Score-P <u>30 min.</u> , M.-A. Hermanns, JARA HPC / FZJ MUST and Thread Sanitizer <u>30 min.</u> , J. Protze, RWTH	Getting OpenMP up to Speed <u>60 min.</u> , R. v. d. Pas, Oracle Lab: OpenMP Part III	POP Performance Analysis WorkFlow <u>45 min.</u> , Alesja Dammer, RWTH ProPE: Node Level Performance Engineering and Performance Patterns <u>45 min.</u> , Jan Eitzinger, RRZE	OpenACC III Presentation + Lab S. Wienke, RWTH
15:30 - 16:00	coffee break	coffee break	coffee break	coffee break	The End
16:00 - 17:30	MPI Lab I	MPI Lab IV or Hands-On Session “Bring Your Own Code”	Intel Inspector and Intel VTune Amplifier <u>45 min.</u> , T. Cramer, RWTH Lab: OpenMP Part IV	ProPE: LIKWID <u>45 min.</u> , Thomas Röhl, RRZE Lab or Hands-On Session “Bring Your Own Code”	
19:00 –		Social event in Vivere kindly sponsored by NEC Schmiedstraße 5, Aachen			