

Parallel Programming of High Performance Systems

Preliminary Agenda (all Times in CET)

Day 1	
10:30 - 10:50	Welcome & Introduction (VW)
10:50 - 12:00	HPC Introduction, Systems in Germany (GH)
12:00 - 13:00	Lunch Break
13:00 - 13:30	Hands-On: Logging in, running jobs, working with code examples
13:30 - 14:30	Elements of OpenMP and MPI (VW)
14:30 - 14:45	Coffee Break
14:45 - 17:00	Hands-On: OpenMP and MPI basics
Day 2	
09:00 - 10:15	OpenMP in Depth (VW)
10:15 - 10:45	Hands-On: OpenMP
10:45 - 11:00	Coffee Break
11:00 - 11:30	Hands-On: OpenMP
11:30 - 12:00	Performance pitfalls and program optimisation (GH)
12:00 - 13:00	Lunch Break
13:00 - 13:45	Performance pitfalls and program optimisation (GH)
13:45 - 14:30	MPI in Depth (I) (AG)
14:30 - 14:45	Coffee Break
14:45 - 15:30	MPI in Depth (II) (AG)
15:30 - 17:00	Hands-On: MPI (and OpenMP)
17:00 - 18:00	Pizza Talk: New ways to fool the masses with performance results on parallel computers (GH)
Day 3	
09:00 - 10:00	Profiling Tools (GH + AG)
10:00 - 10:45	Hands-On: Profiling with perf
10:45 - 11:00	Coffee Break
11:00 - 12:00	Hands-on: Performance analysis with Intel Trace Analyzer/Collector
12:00 - 13:00	Lunch Break
13:00 - 14:30	Parallel computer architecture (GH)
14:30 - 14:45	Coffee Break
14:45 - 15:45	Hands-On
15:45 - 16:00	Wrap-up & adjourn