

COURSE OVERVIEW GSP GPU COURSE 2018

8 August 2018 | Andreas Herten | Forschungszentrum Jülich



GPU Course

This course: Based on other JSC courses

Mostly CUDA course

At end: OpenACC

Interactive course – many hands-ons





Timetable

Session	Day 1	Day 2
M1	Introduction to GPU Programming I Andreas, Jan	Multi-Node GPU / Andreas, Jan
В	Coffee Break (10:30 - 11:00)	
M2	Introduction to GPU Programming II Andreas, Jan	Multi-Node GPU II Andreas, Jan
В	Lunch Break (12:30 - 13:30)	
A1	GPU Tools Andreas, Jan	OpenACC I Andreas, Jan
В	Coffee Break (15:00 - 15:30)	
A2	CUDA Unified Memory Andreas, Jan	OpenACC II Andreas, Jan



Organizationals

- Curriculum not very strict
 - We take more time when necessary
 - We can be faster (at parts) on your request
- Coffee breaks: Up to you!
- Lunch breaks: In canteen (Casino)
- Interactive course!
 - Lots of hands-on in different tasks!
 - Feel free to ask questions, also during lectures
- No time to cover all things GPU \rightarrow we want to give jump start



More Technicalities

- Supercomputers for this course: JUWELS
- Supernew supercomputer; you're privileged to be beta testers!
- Infrastructure for tasks
 - Each person has login: train093 train120
 - Logins for each
- Tasks
 - ullet Tasks are in home directory of supercomputers o best to solely work on JUWELS
 - Sorted by session
 - Solutions are always given, you decide how long you tinker before peaking into solutions (Hint: The later, the more benefit you will get from this course!)
 - There's a cheat sheet for the most important commands!



Let's Get Started!

Questions?

