

An Introduction to HPC at the University Oldenburg

October 7 – 9, 2015 from 9:00 to 17:00 in room W1 0-008 (if not stated otherwise)

given by Stefan Albensoeder and Stefan Harfst

Time	Wednesday	Thursday	Friday
09:00 – 10:30	Introduction to HPC (SA) <ul style="list-style-type: none"> • Motivation • Architectures • Overview FLOW and HERO • Introduction to the SGE <i>(room W3 1-154)</i>	Introduction to Parallel Programming (SH) <ul style="list-style-type: none"> • Overview over parallel models • Parallel Programming with MPI 	Introduction to Matlab on the local HPC-System (SH) <ul style="list-style-type: none"> • Setting up the Client • Job submission • Parallel Programming in Matlab
10:30 – 11:00	Coffee Break		
11:00 – 12:00	Programming in the HPC Environment (SA) <ul style="list-style-type: none"> • Available Compiler • Optimizing Performance • Debugging <i>(room W3 1-154)</i>	Practical: Parallel Programming with MPI	Practical: Parallel Programming in Matlab Examples
12:00 – 14:00	Lunch Break		
14:00 – 15:30	Practical: Usage of the local HPC System	Introduction to Parallel Programming (SA) <ul style="list-style-type: none"> • Parallel Programming with OpenMP 	Parallel Programming in Matlab (SH)
15:30 – 16:00	Coffee Break		
16:00 – 17:00	Practical: Compiling, Optimization, and Debugging	Practical: Parallel Programming with OpenMP	Practical: Parallel Programming in Matlab