

An Introduction to HPC at the University Oldenburg

October 6 – 8, 2014 from 9:00 to 17:00 in room A4 2-201

given by Stefan Albensoeder and Stefan Harfst

Time	Monday	Tuesday	Wednesday
09:00 – 10:30	Introduction to HPC (SA) <ul style="list-style-type: none">• Motivation• Architectures• Overview FLOW and HERO• Introduction to the SGE	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	Practical: Usage of the local HPC System	Practical: Parallel Programming with MPI	Practical: Parallel Programming in Matlab Examples
12:00 – 14:00	Lunch Break		
14:00 – 15:30	Programming in the HPC Environment (SA) <ul style="list-style-type: none">• Available Compiler• Optimizing Performance• Debugging	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