

An Introduction to HPC at the University Oldenburg

October 12 – October 13, 2020 from 10:00 to 16:00 in stud.ip online room

given by Wilke Trei (Forwind) and Stefan Harfst (Scientific Computing)

Time	Monday	Tuesday
10:15 – 11:15	<p>Introduction to HPC (WT)</p> <ul style="list-style-type: none">• Motivation• Architectures• Overview CARL and EDDY	<p>Introduction to Parallel Programming (WT)</p> <ul style="list-style-type: none">• Overview over parallel models• Introduction to MPI
11:15 – 11:30		
11:30 – 13:00	<p>Basic Usage of the HPC Cluster (WT)</p> <ul style="list-style-type: none">• Job Scheduler SLURM• Basic Use of SLURM• Exercise SLURM	<p>Parallel Programming with OpenMP (WT)</p> <ul style="list-style-type: none">• Parallel Programming with OpenMP• Examples and Exercises
13:00 – 13:45		
13:45 – 16:00	<p>HPC Environment (WT)</p> <ul style="list-style-type: none">• File Systems• Software and Modules• Compiler and Toolchains• Job Arrays	<p>Introduction to Matlab on the local HPC-System (WT)</p> <ul style="list-style-type: none">• Setting up the Client• Job submission