

Software

Computational Fluid Dynamics (CFD)

- Ansys/ Fluent/CFD (module load ansys/v2019r1)
 - Start Ansys Workbench with wb
 - Start Fluent with fluent
 - Start IcemCFD with icemcfd
 - Start CFX with cfx5
 - Start TGrid with tgrid
 - Start Ansys Classic with launcher193
- Comsol with comsol (module load comsol/v54)
 - Start Comsol with comsol

Multi Purpose

- Maple (xmaple)
- Octave 4.0 (module load octave/v4.0)
- Matlab (matlab)
 - Start Matlab 2020a with m2020a
 - Start Matlab 2019b with m2019b
 - Start Matlab 2018a with m2018b
 - Start Matlab 2017b with m2017b
 - Start Matlab 2016b with m2016b
 - Start Matlab 2015b with m2015b
- Mathematica
 - Start Mathematica 11.1.1 with mathematica

Visualizing, Pre- und Postprocessing

- Tecplot (tecplot)
- Ensignt
- Fieldview
- Avizo (avizo9)
- Comsol (comsol54)
- Paraview
- Visit

Simulation

- Ansys Workbench (module load ansys/v2019r1; wb)
- Ansys Electronic Desktop (module load ansys/v2019r1; ansyedt)
- ADS (module load ads/v2016.01)
- MSC: Adams, Nastran, ... (setmsc)

- Hypermesh (sethyper)
- Comsol (comsol54)
- LAMMPS (setlammps)
- Gaussian (module load gaussian/g16)
- Silvaco (module load silvaco/summer2018)
- TCAD (module load tcad/N_2017.09-SP1)
- FDTD (module load lumerical/fdtd/v8)
- meep (module load meep/v1.3)
- vasp (module load vasp/v5.4.4)

Europractice

- Cadence (module load cadence/v2017/cad2017)
- Mentor Graphics (setmentor)
- Synopsys (setsynop)
- Altera
- Xilinx (module load xilinx/14.7)

Compiler & Tools

- gnu (module load gcc/v8.3.0)
- PGI (module load pgi/v2020)
- Intel Compiler - Intel Compiler&OpenMPI - Intel Compiler&IntelMPI
 - (module load intel/v2020)
 - (module load intel/v2019)
 - (module load intel/v2018)
- Intel Advisor - Vectorization and Threading Advisor
 - (source /usr/app-soft/intel/v2020/advisor/advixe-vars.csh; advixe-gui)
- Intel Inspector - Memory and Thread Debugger
 - (source /usr/app-soft/intel/v2020/inspector/inspxe-vars.csh; inspxe-gui)
- Intel VTune XE 2020 - Performance Profiler
 - (source /usr/app-soft/intel/v2020/vtune_profiler/vtune-vars.csh; amplxe-gui)
- Intel Debugger
 - (module load intel/v2012; gdb-ia)
- cuda (module load cuda/v10.1)
- Totalview (totalview)
- Totalview pdf documentation:
 - /usr/app-soft/totalview/v2020/toolworks/totalview.2017.1.21/doc/pdf/

Libraries

- fftw
- mpb

Communication

- MPICH
- OpenMPI

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