

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)
- Enight
- 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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