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 2021b with `m2021b`
  - Start Matlab 2020b with `m2020b`
  - Start Matlab 2019b with `m2019b`
- Mathematica
  - Start Mathematica 12.1 with `mathematica`

Visualizing, Pre- und Postprocessing

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

Simulation

- Ansys Workbench (`module load ansys/v2019r1; wb`)
- Ansys Electronic Desktop (`module load ansys/v2019r1; ansysedt`)
- 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/`

Librarys

- fftw
- mpb

Communication

- MPICH
- OpenMPI

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