HPC software list

Your institute may have a different list of software, but following are commonly available software that should be readily available on any HPC systems and may loaded through software `modules` (see the next section). The commercial software are noted with a ©:

Programming Language Compilers

- GNU compilers (`gnu-c`, `gnu-cpp` `ForTran`, etc.)
- JDK (`java`)
- Intel compilers (`c++`, `ForTran`, etc.) ©
- SolarisStudio

Scripting

- Guile
- Perl
- Python
- Tcl/Tk
- Bash
- Zsh

File Formats and Data Management

- HDF
- netCDF

Astronomy and Astrophysics

- IDL ©
- Tecplot ©
- DS9
- IRAF

- Figaro
- Rebound

CFD & Engineering and Modelling

- COMSOL ©
- ANSYS Fluent software ©
- APSIM
- Cantera
- Converge CFG
- Eilmer

Climate Modelling

- GMT
- Opengrads

Mathematics and Statistics

- Matlab ©
- `R` and RStudio
- Scilab
- Numpy
- Scipy

Graphics

- Ferret
- Gnuplot
- Paraview
- Atlas
- NCL
- Wine
- NetworkX
- Gephi
- yED

Editors

- Vim

- EMACS
- Atom

Parallel Programming Libraries/Tools

- Intel MPI ©
- Open MPI
- MPICH
- CUDA Toolkit

Schedulers (any one)

- PBS
- PBS Pro
- Slurm

Utils

- SFTP
- SSH
- sZip

Note that a commercially purchased software may be controlled by their license keys that can either limit the number of concurrent users or the toolboxes/modules available for use (e.g., `Matlab toolbox`). Please contact your institutions HPC authority for further information regarding the availability of a specific software of your need.