

Software List

List of software centrally available via the modules tool at the INCD Cirrus HPC and HTC clusters as of **August 2022**. Full list changes and to request the installation of additional software contact the INCD support [helpdesk](#).

Intel Compilers available

Users can also install software on their own for further information see the section on [User Software Installation](#). Execution of user defined software environments (operating system and libraries) using Linux containers in the HPC and HTC clusters with [uDocker](#) and [Singularity](#) is also supported.

INCD-Lisbon HPC and HTC cluster (Cirrus-A)

AlmaLinux 8

```
[jpina@cirrus01 ~]$ module avail
```

```
----- /cvmfs/sw.el7/modules/hpc
```

```
-----
DATK                                gcc-6.3                                gcc83/gromacs/2021.2                intel/openfoam/1906
python-2.7.11
aoc22/libs/openblas/0.3.10          gcc-7.3                                gcc83/iqtree2/2.1.3
intel/openfoam/2012                  python-3.5.1
aoc22/openmpi/4.0.3                  gcc-7.4                                gcc83/libs/gsl/2.6                intel/openfoam/2112
(D) python-3.5.4
aocc/2.2.0                          gcc-7.5                                gcc83/mvapich2/2.3.5              intel/openmpi/4.0.3
python/3.7.2
aocl/2.2                            gcc-8.3                                gcc83/nlopt/2.6.2                intel/openmpi/4.1.1 (D)
python/3.9.12 (D)
aster-13.1.0                        gcc55/openmpi/4.0.3                    gcc83/openmpi/4.0.3
intel/swan/41.31                     r-3.2.5
autodock/4.2.6                      gcc63/fftw/3.3.9                      gcc83/openmpi/4.1.1 (D) kallisto-0.43.0
```

r-3.5.2

beast/1.10.4 gcc63/libs/blas/3.9.0 gcc83/prover9/2009-11A

libs/32/jemalloc/5.3.0 r-3.6.3

blat-36.2 gcc63/libs/gsl/2.6 git/2.9.5 libs/blas/3.9.0 r-4.0.2

boost-1.55 gcc63/libs/lapack/3.9.0 gromacs-4.6.7 libs/gsl/2.6 sbcl-

1.3.4

bowtie2-2.3.0 gcc63/libs/libpng/1.6.37 hdf4/4.2.15 libs/jemalloc/5.3.0

sicer-1.1

clang/7.0.0 gcc63/libs/openblas/0.3.10 hdf5-1.8.16 libs/lapack/3.9.0

star-2.5.2b

clang/ngspice/30 gcc63/mpich-3.2 hdf5/1.12.0 libs/libpng/1.6.37

tensorflow/2.4.1

clang/openmpi/4.0.3 gcc63/mvapich2/2.3.5 homer-4.8

libs/openblas/0.3.10 tensorflow/2.7.0 (D)

cmake/3.5.2 gcc63/netcdf-fortran/4.4.4 hwloc/2.1.0 macs-1.4.2

trimmomatic-0.33

cmake/3.11.2 gcc63/netcdf-fortran/4.5.2 (D) intel/2019

matlab/R2018a udocker/1.1.3

cmake/3.17.3 gcc63/netcdf/4.6.1 intel/2020 matlab/R2018b

udocker/1.1.4

cmake/3.20.3 (D) gcc63/netcdf/4.7.4 (D) intel/gromacs/2021.5 matlab/R2019b
(D) udocker/1.1.7

conn-R2018b gcc63/ngspice/34 intel/hdf4/4.2.15 mpich-3.2

udocker/alphafold/2.1.1

cuda gcc63/openmpi/1.10.7 intel/hdf5/1.12.0 mvapich2/2.3.5

udocker/tensorflow/cpu/2.4.1

cuda-10.2 gcc63/openmpi/2.1.0 intel/libs/libpng/1.6.37 netcdf-fortran/4.5.2

udocker/tensorflow/gpu/2.4.1

cuda-11.2 gcc63/openmpi/4.0.3 intel/libs/openblas/0.3.10 netcdf/4.7.4

view3dscene/3.18.0

elsa/1.0.2 gcc63/openmpi/4.1.1 (D) intel/mvapich2/2.3.5 nlopt/2.6.2 (D)

vim/8.2

fastqc-0.11.5 gcc63/r-3.4.2 intel/netcdf-fortran/4.5.2 openmpi/1.10.7

weblogo-2.8.2

fftw/3.3.4 gcc63/schism/5.4.0 intel/netcdf/4.7.4 openmpi/2.1.0

wine/4.2

fftw/3.3.5 (D) gcc63/xbeach/1.23.5527 intel/oneapi/2021.3

openmpi/4.0.3 ww3/6.07.1

freewrl/4.4.0 gcc74/gromacs/2019.4 intel/oneapi/2022.1 (D) openmpi/4.1.1

(D)

gcc-4.8	gcc74/openmpi/4.0.3	intel/openfoam/5.0	parallel/20180622
gcc-5.5	gcc74/plumed/2.5.3	intel/openfoam/8.0	plumed/2.2.1

- If software required not listed please ask INCD support

Access and Middleware

Besides conventional login using SSH, the cirrus-A computing resources can be accessed via middleware using the [Unified Middleware Distribution](#) through the EGI and IBERGRID distributed computing infrastructures.

INCD-D HPC and HTC cluster (Cirrus-D)

Almalinux 8

```
[jpina@cirrus01 ~]$ module avail
```

```
----- /cvmfs/sw.el7/modules/hpc
```

```

DATK                                gcc-6.3                                gcc83/gromacs/2021.2                intel/openfoam/1906
python-2.7.11
aoc22/libs/openblas/0.3.10          gcc-7.3                                gcc83/iqtree2/2.1.3
intel/openfoam/2012                 python-3.5.1
aoc22/openmpi/4.0.3                 gcc-7.4                                gcc83/libs/gsl/2.6                 intel/openfoam/2112
(D) python-3.5.4
aocc/2.2.0                          gcc-7.5                                gcc83/mvapich2/2.3.5              intel/openmpi/4.0.3
python/3.7.2
aocl/2.2                           gcc-8.3                                gcc83/nlopt/2.6.2                 intel/openmpi/4.1.1 (D)
python/3.9.12 (D)
aster-13.1.0                        gcc55/openmpi/4.0.3                    gcc83/openmpi/4.0.3
intel/swan/41.31                    r-3.2.5
autodock/4.2.6                      gcc63/fftw/3.3.9                       gcc83/openmpi/4.1.1 (D) kallisto-0.43.0
r-3.5.2
beast/1.10.4                        gcc63/libs/blas/3.9.0                  gcc83/prover9/2009-11A
libs/32/jemalloc/5.3.0              r-3.6.3
blat-36.2                           gcc63/libs/gsl/2.6                     git/2.9.5                        libs/blas/3.9.0                r-4.0.2
boost-1.55                           gcc63/libs/lapack/3.9.0                 gromacs-4.6.7                    libs/gsl/2.6                   sbcl-
1.3.4
```

bowtie2-2.3.0	gcc63/libs/libpng/1.6.37	hdf4/4.2.15	libs/jemalloc/5.3.0
sicer-1.1			
clang/7.0.0	gcc63/libs/openblas/0.3.10	hdf5-1.8.16	libs/lapack/3.9.0
star-2.5.2b			
clang/ngspice/30	gcc63/mpich-3.2	hdf5/1.12.0	libs/libpng/1.6.37
tensorflow/2.4.1			
clang/openmpi/4.0.3	gcc63/mvapich2/2.3.5	homer-4.8	
libs/openblas/0.3.10	tensorflow/2.7.0 (D)		
cmake/3.5.2	gcc63/netcdf-fortran/4.4.4	hwloc/2.1.0	macs-1.4.2
trimmomatic-0.33			
cmake/3.11.2	gcc63/netcdf-fortran/4.5.2 (D)	intel/2019	
matlab/R2018a	udocker/1.1.3		
cmake/3.17.3	gcc63/netcdf/4.6.1	intel/2020	matlab/R2018b
udocker/1.1.4			
cmake/3.20.3 (D)	gcc63/netcdf/4.7.4 (D)	intel/gromacs/2021.5	matlab/R2019b
udocker/1.1.7			
conn-R2018b	gcc63/ngspice/34	intel/hdf4/4.2.15	mpich-3.2
udocker/alphafold/2.1.1			
cuda	gcc63/openmpi/1.10.7	intel/hdf5/1.12.0	mvapich2/2.3.5
udocker/tensorflow/cpu/2.4.1			
cuda-10.2	gcc63/openmpi/2.1.0	intel/libs/libpng/1.6.37	netcdf-fortran/4.5.2
udocker/tensorflow/gpu/2.4.1			
cuda-11.2	gcc63/openmpi/4.0.3	intel/libs/openblas/0.3.10	netcdf/4.7.4
view3dscene/3.18.0			
elsa/1.0.2	gcc63/openmpi/4.1.1 (D)	intel/mvapich2/2.3.5	nlopt/2.6.2 (D)
vim/8.2			
fastqc-0.11.5	gcc63/r-3.4.2	intel/netcdf-fortran/4.5.2	openmpi/1.10.7
weblogo-2.8.2			
fftw/3.3.4	gcc63/schism/5.4.0	intel/netcdf/4.7.4	openmpi/2.1.0
wine/4.2			
fftw/3.3.5 (D)	gcc63/xbeach/1.23.5527	intel/oneapi/2021.3	
openmpi/4.0.3	ww3/6.07.1		
freewrl/4.4.0 (D)	gcc74/gromacs/2019.4	intel/oneapi/2022.1	(D) openmpi/4.1.1
gcc-4.8	gcc74/openmpi/4.0.3	intel/openfoam/5.0	parallel/20180622
gcc-5.5	gcc74/plumed/2.5.3	intel/openfoam/8.0	plumed/2.2.1

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