

Oscar: Software Modules

If you require a software package that is not currently available on the Oscar cluster, please contact ICERM's IT staff and we will work with CCV to get the software installed.

Currently Available Modules

This list is current as of September 25, 2020. To see the most up to date list of software modules, log into your Oscar account and run the command `module avail`.

```

~~~~~ category:
~~~~~
JAGS/4.2.0          cesm_post_process/Oct18  potfit/0.7.1
JAGS/4.3.0          confocal/1.0
bxh_xcede_tools/1.11.14  pigz/2.4
~~~~~ category:  Microstructure modeling
~~~~~
oof2/2.1.17
~~~~~ category:  access controlled
~~~~~
Molpro/2012.1.15    Molpro/2019.2           vasp/5.4.1_debug
Molpro/2015_gcc     Molpro/2019.2_ga        vasp/5.4.4
Molpro/2015_serial  gaussian/g09             vasp/5.4.4_intel
Molpro/2018.2_ga    gaussian/g09-D01        vasp/5.4.4a
Molpro/2018.2_hpcx  gaussian/g09-D01-TEST   vasp/6.1.1_yqi27
Molpro/2018.2_no_ga  vasp/5.4.1
~~~~~ category:  chemistry
~~~~~
schrodinger/2017-3  schrodinger/2020-1
~~~~~ category:  graph partitioning
~~~~~
metis/5.1.0         parmetis/4.0.3          scotch/6.0.4
~~~~~ category:  image processing
~~~~~
multinest/3.10      openslide/3.4.1         pstokes/1.0
~~~~~ category:  libraries
~~~~~
astropy/3.2.1          pcl/1.9.1_nurbs
astroquery/3.0.9       scalapack/2.0.2
blas/3.7.0             tensorflow/1.1.0_cpu
cudnn/5.1              tensorflow/1.1.0_gpu
cudnn/6.0              tensorflow/1.13.1_cpu_py3
cudnn/7.0              tensorflow/1.13.1_gpu
cudnn/7.4              tensorflow/1.13.1_gpu_keras
cudnn/7.6              tensorflow/1.13.1_gpu_py3
cudnn/7.6.5           tensorflow/1.14.0_gpu_py36
dlib/19.17            tensorflow/1.4.1_cpu
flann/1.8.4           tensorflow/1.4.1_cpu_py3

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hnn/1.0                                tensorflow/1.4.1_gpu
horovod/0.16                            tensorflow/1.4.1_gpu_py3
horovod/0.19.5                          tensorflow/1.4.1_gpu_py3_cuda9.1
lapack/3.4.2                             tensorflow/1.5.0_cpu_py3
lapack/3.6.0                             tensorflow/1.5.0_gpu
lapack/3.7.0                             tensorflow/1.5.0_gpu_py3
mumps/5.0.2                              tensorflow/2.0.0_cpu_py37
mumps/5.0.2-seq                          tensorflow/2.0.0_gpu_py37
pcl/1.9.1
~~~~~ category: library
~~~~~
openslide-python/1.1.1
~~~~~ category: machine learning
~~~~~
keras/2.0.9      keras/2.1.1      keras/2.1.3_py3  nccl/2.4.7
~~~~~ category: math
~~~~~
gsl/1.15  gsl/2.3  gsl/2.5
~~~~~ category: package
~~~~~
subread/1.6.2
~~~~~ category: software
~~~~~
mriconvert/2.1.0
~~~~~ category: utility
~~~~~
mriconvert/2.1.0
~~~~~ category: visualization
~~~~~
mayavi/4.6.0
~~~~~ category: (none)
~~~~~
HiC-Pro/2.7.8      libsodium/1.0.17      repeatmasker/4.1.0
HiC-Pro~/2.10.0   mumax/3.9.3           repeatmodeller/1.0.11
awscli/1.0        ncl/6.4.0            siesta/3.2
basilisk/1.0     neuron/7.5           siesta/4.1
canu/1.7.1       neuron/7.7           skewer/0.2.1
dropest/0.86     neuron/7.7_mpi       squashfs/4.3
fiji/2017-java6  nvidia-driver/440.33.01  tmux/2.8
fiji/2020        pdflib/7.0.5         topcat/4.7
fmri/20.0.0     pypy/6.0.0_2.7      transrate/1.0.3
fv/5.5         pypy/6.0.0_3.5     vscode/1.22
grads/2.2.0     pypy/7.3.0_3.6
hotnet/1.0      repeatmasker/4.0.7
~~~~~ category: Applied Maths
~~~~~
oof2/2.1.17
~~~~~ category: Astrophysics
~~~~~
polychord/1.0  polychord/2.0
~~~~~ category: Bioinformatics

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~~~~~
MultiQC/1.0      muscle/3.8.31
~~~~~ category: CAD
~~~~~
freecad/0.18    librecad/2.0
~~~~~ category: Chemistry
~~~~~
dalton/2018.0
~~~~~ category: Computer Architecture
~~~~~
risc/1.0
~~~~~ category: EDA tools
~~~~~
cadence/IC06.18.090 incisive/15.20.085
~~~~~ category: Executable for ceckpointings
~~~~~
dmtcp/2.6.0
~~~~~ category: Flag for CMAKE for fast build
~~~~~
ninja/1.9.0
~~~~~ category: GENETEICS
~~~~~
eigensoft/6.0
~~~~~ category: Genomic
~~~~~
Genrich/0.5    mcscanx/1.0
~~~~~ category: Genomic Library
~~~~~
redundans/1.0
~~~~~ category: Genomics
~~~~~
baypass/2.2      beast/2.5.2      kissplice/2.5.1
beast/1.10.4     kissplice/2.5.0
~~~~~ category: Genomics Sequencing Alignment
~~~~~
qualimap/2.2.1
~~~~~ category: Graphics
~~~~~
beagle/1.0.0
~~~~~ category: Helper function type
~~~~~
datamash/1.3
~~~~~ category: I/O
~~~~~
cdo/1.9.8                nco/4.6.6
cdo/1.9.9                nco/4.8.2
hdf5/1.10.0              nco/4.9.3
hdf5/1.10.1_parallel    netcdf/3.6.3
hdf5/1.10.5              netcdf/4.4.1.1_gcc
hdf5/1.10.5_fortran      netcdf/4.4.1.1_intel
hdf5/1.10.5_openmpi_3.1.3_gcc netcdf/4.4.1.1_pgi

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hdf5/1.10.5_openmpi_3.1.6_gcc  netcdf/4.7.0_intel2019.3
hdf5/1.10.5_openmpi_4.0.0_gcc  sqlite/3.25.2
hdf5/1.10.5_parallel           sqlite/3.31.1
hdf5/1.12.0_hpcx_2.6.0        udunits/1.12.11
jasper/1.900.1-intel           udunits/2.2.24
~~~~~ category: IDE
~~~~~
meshlab/20190129_qt59  spyder/3.3.5
~~~~~ category: Image processing and visualization
~~~~~
opencv-python/4.1.0.25
~~~~~ category: Library for optimizer
~~~~~
numbbo/2.3_python2  numbbo/2.3_python3
~ category: Material science:
https://icet.materialsmodeling.org/overview.html ~
icet/0.3
~~~~~ category: Medical imaging
~~~~~
mricrogl/1.0
~~~~~ category: Multifunctional Wavefunction Analyzer
~~~~~
multiwfn/3.3.9
~~~~~ category: Numerical Library
~~~~~
ngsolve/6.2.1901
~~~~~ category: Numerical Solver
~~~~~
dedalus/2.1810  dedalus/2.1905  dedalus/Sep2019  nektar++/4.5.0
~~~~~ category: Quantum Monte Carlo
~~~~~
casino/2.13
~~~~~ category: Tool for Image Manipulation
~~~~~
netpbm/10.47.71
~~~~~ category: Utility
~~~~~
globus/1.11
~~~~~ category: Visualization Package Qt's Python API
~~~~~
pyqt/4.12.1
~~~~~ category: X
~~~~~
turbovnc/2.1.1  turbovnc/2.2.1  turbovnc/2.2.b1
~~~~~ category: astronomy
~~~~~
ares/0.1          iraf/2.16          sexttractor/2.8.6
ares/0.5          iraf/2.16.1+2018.11.01  supermongo/2.4.34
ccfits/2.5        lsst/14.0          swarp/2.38
cfitsio/3.450     planck_likelihood/3.0  theli/1.9.5
cfitsio/3.48      planck_likelihood/3.01  wcstools/3.9.5

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ds9/7.6                scamp/2.0.4
galfit/3.0.5           sextractor/2.19.5
~~~~~ category: astrophysics
~~~~~
fiat/Oct2019
~~~~~ category: astropy computing
~~~~~
astropy/3.2.1
~~~~~ category: astroquery computing
~~~~~
astroquery/3.0.9
~~~~~ category: binary for genome studies
~~~~~
bedGraphToBigWig/1.04
~~~~~ category: bio
~~~~~
SNAP/2013-11-29       mira/4.0.2
abyss/2.1.1           mne/0.17.0
ale/20140120          moseq2/0.1.2
aliview/1.25          mothur/1.39.5
amplisat/20170208     mrbayes/3.2.6
angsd/0.920           msmc/1.0.0
anvio/5.2             msmc/1.1.0
anvio/5.5             msmc/2.1.2
anvio/6.1             msprime/0.7.0
arb/6.0.6             msprime/0.7.2
augustus/3.3          msprime/0.7.4
bamcleave/Oct2018     mummer/4.0.0.beta2
bamtools/2.3.0        namd/2.11-multicore
bamtools/2.4.1        namd/2.13b1-multicore
bbmap/38.23           nextclip/1.3.1
bbtools/38.12         nipype/1.5.0
bcftools/1.10.2       nseg/20181012
bcftools/1.9          obitools/1.2.12
bcl2fastq/2.20.0     oligotyping/2.0
bedops/2.4.35         omero/5.6.2
bedtools/2.25.0       opera/2.0.6
bedtools/2.26.0       orthomcl/2.0.9
biolite/1.0.0         paml/4.8
biomed/1.0            pandaseq/2.11
biopython/1.66        paris/1.1.3
biopython/1.73        paup/4.0a157
bismark/0.20.0        paup/4.0a166
blast/2.2.30+         pbsuite/15.8.24
blast/2.6.0+          pcangsd/0.98
blast/2.7.1+          picard-tools/2.17.11
blast/2.8.1+          picard-tools/2.9.2
blast/2.9.0+          pilon/1.22
blat/36x2             plink/1.07
bowtie/1.2.0          plink/1.90
bowtie/2.4.1          plink/2.00

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bowtie2/2.3.0	polyphen/2.2.2
bowtie2/2.3.5.1	poolparty/0.8
braker/2.1.0	popoolation2/1.201
busco/3.0.2	prinseq/0.20.4
bwa/0.7.15	prodigal/2.6.3
cantera/5.9.7	psmc/0.6.5
ccp4/7.0	psmc/0.6.5a
circlator/1.5.5	pymol/2.2b
conn/16b	qctool/2.0
conn/18a	qiime/1.9.1
conn/18b	quast/5.0.0
connectome_workbench/1.3.1	raremetal/4.14.1
connectome_workbench/1.3.2	raxml/8.2.10
connectome_workbench/1.4.2	raxml-ng/0.9.0
cpac/1.0.1	recon/1.08
cpac/1.5.0	repeatscout/1.0.5
cufflinks/2.2.1	revbayes/1.0.5
cutadapt/1.14	revbayes/1.0.6
dada2/1.4.1	rmblastn/2.10.0
dada2/1.8	rmblastn/2.6.0
dbg2olc/Sep2018	rsem/1.3.1
dendropy/4.2.0	salmon/0.11.3
diamond/0.9.12	salmon/0.8.2
diamond/0.9.24	salmon/1.0.0
dida/1.0.1	salmon/1.2.0
diffreps/1.55.6	salmon/1.3.0
dlcpar/1.1	sambalster/0.1.24
edge-pro/1.3.1	samtools/0.1.18
eems/1.0	samtools/1.10
emboss/6.6.0	samtools/1.2
entap/0.8.1-beta	samtools/1.3.1
entap/0.8.4-beta	samtools/1.4.1
exonerate/2.2.0	samtools/1.9
fastme/2.1.5	schrodinger/2017-3
fastqc/0.11.5	schrodinger/2020-1
fastsimcoal/2	selscan/1.2.0a
fasttree/2.1.10	seqkit/0.10.1
fasttree/2.1.11	seqtk/1.3
fastuniq/1.1	sga/0.10.15
fastx-toolkit/2.6	sift/6.2.1
fgap/1.8.1	sift4g/2.0.0
fgbio/0.6.1	skesa/1.68
figtree/1.4.4	slicer/4.10.0
flashpca/2.0	slim/3.1
freebayes/1.1.0	slim/3.2.1
freebayes/1.2.0	slim/3.3
garlic/1.1.6	snippy/Oct2017
gatk/4.0.9.0	spades/3.10.1
gatk/4.1.6.0	spades/3.13.0
gdccclient/1.4.0	span/0.10.0.4787
genemark/4.33	spm/spm12

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guppy/4.0.11
hapbin/1.3.0
hisat2/2.1.0
hmmer/3.1b2
homer/4.10
hotnet2/1.2.1
htseq/0.11.1
htseq/0.9.1
idba/1.1.3
idemp/20180928
interproscan/5.26-65.0
interproscan/5.27-66.0
interproscan/5.28-67.0
interproscan/5.32-71.0
interproscan/5.33-72.0
iq-tree/1.6.7
jellyfish/1.1.11
jellyfish/2.2.10
kneaddata/0.6.1
kraken/2.0.7-beta
kraken/2.0.9-beta
last/956
macs/2.1.1
macs/2.2.6
mafft/7.310-with-extensions
maker/2.31.10
marsbar/0.42
maxbin2/2.2.5
megahit/1.1.3
meraculous/2.2.6
metabat/2.12.1
metaphlan/2.6.0
metavelvet/1.2.01
migrate/3.6.11
sprint/0.1.8
sratoolkit/2.10.5
sratoolkit/2.8.2-1
stacks/2.2
stampy/1.0.32
star/2.6.1b
star/2.7.2a
star/2.7.3a
starfusion/1.7.0
starfusion/1.8.1
stringtie/1.3.3b
stringtie/1.3.4d
tabix/0.2.6
tablemaker/2.1.1
taxonkit/0.3.0
tophat/2.1.1
transabyss/2.0.1
transindel/20181017
trf/4.09
trimal/1.4
trimgalore/0.5.0
trimmomatic/0.36
trinity/2.4.0
trinity/2.8.4
usearch/5.2.32
usearch/8.1.1861
varscan/2.4.3
vcftools/0.1.16
velvet/1.2.10
velvet/1.2.10a
viennarna/2.4.9
vmd/1.9.3
vsearch/2.11.1
weblogo/2.8.2

```

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~~~~~ category: bioinformatics
~~~~~

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umitools/1.0.0
~~~~~ category: biology
~~~~~

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```

haplostrips/1.2.1 libBigWig/0.4.4 mmsplice/0.2.7
htslib/1.9 meme/5.0.5 wiggletools/1.2.3
~~~~~ category: build tool
~~~~~

```

```

scons/3.0.1
~~~~~ category: cave
~~~~~

```

```

gigapixelviewer/alpha minvr/dev_ben vrg3d/265_compat
minvr/0.3master planetaryviewer/alpha vrg3d/265_demos
minvr/0.4 scalable/20150828 vrpn/7.33
minvr/beta scalable/opengl32+
minvr/beta-bleeding vrg3d/265

```

```

~~~~~ category: chemistry
~~~~~
Molpro/2012.1.15      mrcc/2014-intel-threaded
Molpro/2015_gcc      mrcc/2018-intel
Molpro/2015_serial   mrcc/2018-intel-threaded
Molpro/2018.2_ga     n2p2/1.0.0
Molpro/2018.2_hpcx   n2p2/2.0.0
Molpro/2018.2_no_ga  n2p2/2.0.0_hpcx
Molpro/2019.2        nwchem/6.8-openmpi
Molpro/2019.2_ga     openbabel/2.4.1
ambertools/amber16-gpu openbabel/3.0.0
ambertools/amber17   openmolcas/18.09.617
ambertools/amber17_lic orca/4.0.1.2
ase/3.13.0           orca/4.1.1
ase/3.19.1          orca/4.2.1
ase/3.8.1            prophet/augustegm_1.2
bagel/1.2.2         pyscf/1.4.7
cp2k/7.1            pyscf/1.6.3
cp2k/7.1_mpi        qchem/5.0.2
crossrate/2016.3.23 qchem/5.0.2-openmpi
dacapo/2.7.16_mvapich2_intel qmcpack/3.7.0
elk/5.2.14          qmcpack/3.9.1
gaussian/g09         qmcpack/3.9.1_openmpi_3.1.6
gaussian/g09-D01     qmcpack/3.9.2_openmpi_4.0.1_gcc
gaussian/g09-D01-TEST qmcpack/3.9.2_openmpi_4.0.4_gcc
gaussview/14Aug20   quantumespresso/6.1
gromacs/2016.6       quantumespresso/6.3
gromacs/2018.2       quantumespresso/6.4
gromacs/2018.2_gpu   quantumespresso/6.4.1
gromacs/2020.1       quantumespresso/6.5
hande/1.1.1          rotd/2014-11-15_mvapich2
hande/1.1.1_64       sharc/2.0
hande/1.1.1_debug    sharc/2.1.1
hotbit/10mar17       sharc/2.1.1_intel
lammps/11Aug17       vasp/5.4.1
lammps/11Aug17_serial vasp/5.4.1_debug
lammps/16Mar18       vasp/5.4.4
lammps/17Nov16       vasp/5.4.4_intel
lammps/22Aug18       vasp/5.4.4a
lammps/7Aug19        vasp/6.1.1_yqi27
molden/5.7           xcrysden/1.5.60
mrcc/2014-intel

~~~~~ category: class
~~~~~
class/1435

~~~~~ category: clients
~~~~~
aspera/3.8.1

~~~~~ category: climate
~~~~~
cesm/1.2.1      cesm/2.1.1      esmf/8.0.0      esmf/8.1.0b11

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cesm/1.2.2      esmf/7.1.0r    esmf/8.0.0b    esmf/8.1.9b17
~~~~~
category: compilers
~~~~~
Xvfb/1.10.4    gcc/4.7.2      java/8u111
clang/3.9.1    gcc/4.9.4      java/jdk-12.0.2
clang/7.0.0    gcc/5.4        llvm/3.8.1
clang/7.1.0    gcc/6.2        llvm/4.0.0
cuda/10.0.130  gcc/6.3        llvm/7.1.0
cuda/10.1.105  gcc/7.2        mpi-hpcx/hpcx-v2.7.0-gcc
cuda/10.2      gcc/8.3        mpi-hpcx/hpcx-v2.7.0-icc
cuda/7.5.18    intel/2011.11.339  nag/6.2
cuda/8.0.61    intel/2013.1.106  pgi/16.7
cuda/9.0.176   intel/2017.0     pgi/2019
cuda/9.1.85.1  intel/2018.1     swig/3.0.10
cuda/9.2.148   intel/2019.3
gcc/4.5.4      intel/2020.2
~~~~~
category: computer architecture
~~~~~
llvmOpenmp/1.0  llvmOpenmp/2.0
~~~~~
category: containers
~~~~~
singularity2/2.5.2
~~~~~
category: cross webbrowser web application development environment
~~~~~
chromedriver/2.46
~~~~~
category: data analysis(http://www.mega-nerd.com/)
~~~~~
libsnd/1.0.28
~~~~~
category: data science
~~~~~
catboost/0.8.1    manureadr/1.0    pandas/py_3.6.6
catboost/0.8.1_py3  pandas/py_3.5.2
~~~~~
category: data structure library
~~~~~
dcm2bids/2.1.4
~~~~~
category: debugging and profiling
~~~~~
forge/18.2.3  forge/19.1.2
~~~~~
category: dev
~~~~~
googletest/1.8.0  qemu/4.1.0
~~~~~
category: devel
~~~~~
bazel/0.23.0      glew/1.13.0      opengl/nvidia-375.66
bazel/0.25.2      glew/2.1.0       opengl/nvidia-390.30
bazel/0.4.4       opengl/mesa-12.0.6  opengl/nvidia-410.72
bazel/0.5.4       opengl/mesa-18.3.3  protobuf/3.4.1
bazel/1.2.1       opengl/nvidia      protobuf/3.6.0_gcc5.4
~~~~~
category: editor
~~~~~
emacs/26.3

```

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~~~~~ category: engineering
~~~~~
abaqus/2017                spectre/191
abaqus/6.12sp2            su2/7.0.2
ansys/18.1                synopsys/2018.06
assura/04.16.107         synopsys/2020.06
comsol/5.2                synopsys/L_2016.03-SP2
mentor-calibre/2020.1_36.18
~~~~~ category: fMRI
~~~~~
brainiak/Feb2018
~~~~~ category: fonts
~~~~~
freetype/2.7.1
~~~~~ category: gene and species tree
~~~~~
phyllog/1.0
~~~~~ category: genomic
~~~~~
admixture/1.3.0           glactools/1.0.7           pybigwig/0.3.15
deeptools/3.2.1          partitionfinder/2.1.1     pysam/0.15.2
deeptoolsintervals/0.1.7 py2bit/0.3.0              pyslim/1.0
~~~~~ category: genomics
~~~~~
clustal_omega/1.2.4      relernn/6Dec2019
~~~~~ category: graphics
~~~~~
campari/3.0              gnuplot/5.2.3            inkscape/Sep-2019
~~~~~ category: image
~~~~~
c3d/1.0.0                imagej/1.52a             leptonica/1.79.0
ffmpeg/3.2.4             imagemagick/7.0.7        libgd/2.2.5
ffmpeg/4.0.1             isis/3.5.1               openexr/2.2.1
~~~~~ category: image converter
~~~~~
mriconvert/2.1.0
~~~~~ category: image processing
~~~~~
libgif/5.1.9             libjpeg-turbo/2.0.2      openjpeg/2.3.1
libjpeg/9.0              mayavi/4.6.0             openslide-python/1.1.1
~~~~~ category: languages
~~~~~
R/3.3.2                  julia/1.0.2              perl/5.8.9
R/3.4.0                  julia/1.1.0              python/2.7.12
R/3.4.3                  julia/1.2.0              python/2.7.12_clean
R/3.4.3_mkl              julia/1.4.1              python/2.7.16
R/3.4.4                  julia/1.4.2              python/3.5.2
R/3.5.2                  julia/1.5.0              python/3.6.6
R/3.6.0                  julia/1.5.1              python/3.6.6_test
R/3.6.3                  lua/5.3.4                python/3.6.8_gcc8.3
R/4.0.0                  maple/16                  python/3.7.4

```

anaconda/2-4.3.0	maple/20	qt/3.3.8b
anaconda/2-5.3.0	mathematica/10.3.1	qt/3.3.8b-51
anaconda/2020.02	mathematica/11.0	qt/5.10.1
anaconda/3-4.3.0	mathematica/12.0	qt/5.12
anaconda/3-5.2.0	matlab/R2016a	qt/5.12.0
idl/8.5.1	matlab/R2017a	qt/5.13.1
idl_DEEPS/8.7.2	matlab/R2017b	qt/5.14.2
java/8u111	matlab/R2018a	qt/5.7.0
java/jdk-12.0.2	matlab/R2018b	qt/5.9.0
julia/0.5.1	matlab/R2019a	ruby/2.4.0
julia/0.6.1	perl/5.16.0	rust/1.45.1
julia/0.6.4	perl/5.18.2	scala/2.12.2
julia/0.7.0	perl/5.24.1	
julia/1.0	perl/5.30.0	

~~~~~ category: lib

~~~~~  
lftp/4.8.4

~~~~~ category: libraries

|                     |                       |
|---------------------|-----------------------|
| Xvfb/1.10.4         | keras/2.0.9           |
| acml/5.2.0-gfortran | keras/2.1.1           |
| agalma/1.0.0        | keras/2.1.3_py3       |
| armadillo/9.200.4   | lemon/1.3.1           |
| assimp/4.1.0        | leveldb/1.20          |
| assimp/5.0.0        | libcutensor/10.2      |
| blast-legacy/2.2.26 | libint/2.5.0          |
| boost/1.44.0        | libpng12/1.2.57       |
| boost/1.49.0        | libspatialindex/1.9.3 |
| boost/1.55          | libtiff/4.0.10        |
| boost/1.57          | libxc/4.3.4           |
| boost/1.62.0-intel  | libzip/0.9-3.1.el6    |
| boost/1.63.0        | lp_solve/5.5.2.5      |
| boost/1.68          | metis/5.1.0           |
| bzip2/1.0.2         | mpfr/3.1.5            |
| c-blosc/1.16.3      | mpfr/4.0.2            |
| cdhit/4.6.8         | mpi4py/3.0.1_py3.6.8  |
| cellranger/3.1.0    | mxnet/1.3.0           |
| cuda/10.0.130       | node.js/6.10.3        |
| cuda/10.1.105       | occa/1.2              |
| cuda/10.2           | openblas/0.2.19       |
| cuda/7.5.18         | openblas/0.2.8        |
| cuda/8.0.61         | openblas/0.3.7        |
| cuda/9.0.176        | opencv/3.2.0          |
| cuda/9.1.85.1       | opencv/3.4.1          |
| cuda/9.2.148        | parmetis/4.0.3        |
| ea-utils/1.04.807   | pcre2/10.35           |
| fastq-tools/0.8     | phylobales/1.8b       |
| fftw/2.1.5          | proj/4.9.3            |
| fftw/2.1.5-double   | proj/5.2.0            |
| fftw/3.3.6          | proj/7.0.0            |
| fftw/3.3.8          | pytorch/1.3.1         |

```

fftw/3.3.8a                sparsehash/2.0.2
freelut/3.0.0              suiteparse/4.5.4
geos/3.4.2                 theano/1.0.1_py3
geos/3.7.1                 transdecoder/5.4.0
geos/3.8.1                 v8/3.14.5
global_arrays/5.6.1        voro++/0.4.6
global_arrays/5.6.1_i8     vrpn/7.33
global_arrays/5.6.1_openmpi_2.0.3 whatshap/Sep2018
gmp/6.1.2                  xeyes/1.0
gsl/1.15                    xz/5.2.4
gsl/2.3                     yaml-cpp/0.6.2
gsl/2.5                     yaml-cpp/0.6.2_intel2019.3
igraph/0.7.1               zlib/1.2.11
~~~~~ category: library
~~~~~
easydict/1.7                openslide/3.4.1          sprng/5.0
fastq_screen/0.13.0         p7zip/16.02              statsmodels/0.9.0
multinest/3.10             pmclib/1.1
nccl/2.4.7                  pstokes/1.0
~~~~~ category: libraryg
~~~~~
matplotlib/2.2.4
~~~~~ category: machine learning
~~~~~
1/1.01                      rapidjson/1.1.0
1/2.03                      scikit-learn/0.19.1
attend2u/20180216          scikit-learn/0.21.2
cudnn/5.1                   tensorflow/1.1.0_cpu
cudnn/6.0                   tensorflow/1.1.0_gpu
cudnn/7.0                   tensorflow/1.13.1_cpu_py3
cudnn/7.4                   tensorflow/1.13.1_gpu
cudnn/7.6                   tensorflow/1.13.1_gpu_keras
cudnn/7.6.5                tensorflow/1.13.1_gpu_py3
deeparg/Jan2019            tensorflow/1.14.0_gpu_py36
deeparg/Oct2018           tensorflow/1.4.1_cpu
deeplabcut/1.01           tensorflow/1.4.1_cpu_py3
deeplabcut/2.03           tensorflow/1.4.1_gpu
deeplabcut/2.1.4          tensorflow/1.4.1_gpu_py3
dlib/19.17                 tensorflow/1.4.1_gpu_py3_cuda9.1
flann/1.8.4                tensorflow/1.5.0_cpu_py3
hnn/1.0                    tensorflow/1.5.0_gpu
horovod/0.16               tensorflow/1.5.0_gpu_py3
horovod/0.19.5            tensorflow/2.0.0_cpu_py37
pcl/1.9.1                  tensorflow/2.0.0_gpu_py37
pcl/1.9.1_nurbs           tf-horovod/1.0
py-faster-rcnn/July2018
~~~~~ category: math
~~~~~
atlas/3.10.3                gmesh/3.0.1              magma/V2.25-5            rss/1.0
blas/3.7.0                  lapack/3.4.2             magma/V2.25-5-gpu       sage/8.7
cgal/3.14.1                 lapack/3.6.0             magma-gpu/2.4.0        sage/9.0

```

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fenics/2017.1      lapack/3.7.0      nlopt/2.5.0      scalapack/2.0.2
fenics/2018.1.0   macaulay2/1.12-1  numpy/intel_1.15.1  sympy/1.4
gap/4.9.1         magma/V2.23-10    ripser/0.5.3      trlan/2010.09
~~~~~
category: misc
~~~~~
mark/Dec18        mysql/8.0.13
mysql/5.7.28      netcdf4-python/4.1.4.2
~~~~~
category: molecular dynamics
~~~~~
mdanalysis/0.19.2
~~~~~
category: mpi
~~~~~
mpi/5.6.1_openmpi_2.0.3      mpi/openmpi_2.0.3_intel
mpi/cave_mvapich2_2.3b_gcc   mpi/openmpi_2.0.3_pgi
mpi/cave_mvapich2_2.3b_intel  mpi/openmpi_2.1.1_gcc
mpi/cave_mvapich2_2.3rc2_gcc  mpi/openmpi_3.1.3_gcc
mpi/mvapich2-2.0rc1_gcc      mpi/openmpi_3.1.6_gcc
mpi/mvapich2-2.3.1_gcc      mpi/openmpi_4.0.0_gcc
mpi/mvapich2-2.3a_gcc       mpi/openmpi_4.0.0_gcc_i8
mpi/mvapich2-2.3a_intel     mpi/openmpi_4.0.1_gcc
mpi/mvapich2-2.3a_pgi       mpi/openmpi_4.0.3_gcc
mpi/mvapich2-2.3b_gcc       mpi/openmpi_4.0.4_gcc
mpi/openmpi_1.10.7_gcc      mpi/openmpi_4.0.5_icc
mpi/openmpi_1.8.3_gcc      osu-mpi/5.3.2
mpi/openmpi_2.0.3_gcc      osu-mpi/5.6.2_mvapich2-2.3a_gcc
~~~~~
category: mri
~~~~~
afni/17.1.00      freesurfer/6.0.0_rh7
afni/18.2.06      freesurfer/6.0.0_rh7-30-Nov-2018
afni/19.0.17      fsl/5.0.10
afni/19.3.08      fsl/6.0.0
afni/19.3.10      fsl/6.0.3
afni/20.0.03      mmvt/2020-06
afni/20.1.06      mricron/05-2016
ants/2.1.0         mricron/12-2012
ants/2.3.1         mricron/2019-09
dsi/april2019     tortoise/3.1.0
freesurfer/6.0.0
~~~~~
category: neuro
~~~~~
dtitk/2.3.1  qit/1.0
~~~~~
category: neuroscience
~~~~~
sct/4.2.2
~~~~~
category: numerical optimization
~~~~~
bayop/1.0
~~~~~
category: other
~~~~~
sbt/1.2.3
~~~~~
category: package

```

```

~~~~~
ffte/6.0      fft/6.0/mpi
~~~~~
category: performance
~~~~~
ior/2.10.3    ipm/2.0.6_r
ior/3.0.1     osu-mpi/5.3.2
ior/3.2.1     osu-mpi/5.6.2_mvapich2-2.3a_gcc
ipm/2.0.6     papi/5.4.3
~~~~~
category: physics
~~~~~
casa/5.1.2    hoomd/2.9.0
geant/4.10.04.p01  jdftx/1.4.2
geant/4.10.3  lumericalfdtd/8.16.982
geant/4.10.5  mcx/20180525
geant/4.9.4.p04  mcxlab/2017.7
gpaw/0.10.0   mujoco-py/1.50.1.23
gpaw/1.2.0    pymultinest/2.9
gpaw/1.2.0_hpcx_2.7.0_gcc  root/6.10
gpaw/1.2.0_mvapich2-2.3a_gcc
~~~~~
category: profiling and debugging
~~~~~
cube/4.3.4    ncd/1.14
ddd/3.3.12    scalasca/2.3.1_intel
gdb/7.12.1    scorep/3.0_intel_mvapich2
gperftools/2.5  valgrind/3.12.0
~~~~~
category: python
~~~~~
numpydoc/0.9.1  pytables/3.5.2  six/1.12.0
plotly/3.9.0   python_igraph/0.7.1
~~~~~
category: python library
~~~~~
wx/1.0
~~~~~
category: software
~~~~~
annovar/2018Apr16  orthofinder/2.2.7  orthofinder/2.3.3
~~~~~
category: software management
~~~~~
maven/3.2.2
~~~~~
category: solvers
~~~~~
eigen/3.2.2    openfoam/4.1    petsc/3.7.5    suiteparse/4.5.4
eigen/3.3.2    openfoam/4.1a  petsc/3.7.7    trilinos/12.12.1
mcl/12.135    openfoam/7.0    petsc/3.8.3
mumps/5.0.2    pari/2.11.2    polyrate/17C
mumps/5.0.2-seq  pastix/5.2.3    scotch/6.0.4
~~~~~
category: stat
~~~~~
seaborn/0.10.0
~~~~~
category: statistical analysis package
~~~~~
glmnet/1.0

```

```

~~~~~ category: statistics
~~~~~
R/3.3.2          R/3.6.3          mallet/2.0.8rc3
R/3.4.0          R/4.0.0          rstudio/1.0.44
R/3.4.3          SAS/9.4          rstudio/1.1.463
R/3.4.3_mkl     SAS/9.4b        stata/14
R/3.4.4          caffe/1.0        stata/15
R/3.5.2          caffe/1.0_CPU_ONLY wfu_pickatlas/3.0.5b
R/3.6.0          caffe/1.0_with_cudnn
~~~~~ category: sys
~~~~~
dos2unix/7.4.0
~~~~~ category: system
~~~~~
wayland/1.18.0   xfce/4.10
wayland-protocols/1.20 xfce/4.12
~~~~~ category: tex
~~~~~
pandoc/2.9.2.1
~~~~~ category: text editing
~~~~~
texstudio/2.12.16
~~~~~ category: tool
~~~~~
dcm2niix/25.0
~~~~~ category: tool kit
~~~~~
subread/1.6.2
~~~~~ category: tools
~~~~~
idr/2.0.2   omero/5.6.2
~~~~~ category: util
~~~~~
libevent/2.1.8  pdftk/2.02
~~~~~ category: utilities
~~~~~
atom/1.19.3          firefox/68.0
bamaddrg/20180928   ghostscript/9.21
binutils/2.29.1     git/2.10.2
binutils/2.31       git/2.20.2
chrome/55.0         h4cf/1.2
chrome/73.0         itstool/2.0.4
cmake/3.10.1        json_fortran/8.1.0
cmake/3.15.4        kallisto/0.46.1
cmake/3.6.3         mercurial/5.1
cmake/3.8.0         perf-tools/2.7
colordiff/1.0.18    rclone/1.51.0
comsol/5.2          rsync/3.1.3
cppunit/1.14.0     spffft/0.9.12
curl/7.61.1        sublime/2.0.2
cvs/1.11.23        svn/1.8.17

```

```

depot_tools/Jan2019          svn/1.9.5
engineering/19.10.237       texinfo/4.13a
engineering/calibre2020.1_36 texlive/2018
express/1.5.1               vim/8.1
fileZilla/3.10.0           vim/8.1_py3
firefox/56.0.2             vnc-apps/7.2
firefox/59.0.2             xxdiff/4.0.1
firefox/66.0.3

~~~~~ category: utility
~~~~~

h5py/2.9.0
~~~~~ category: version record for large files
~~~~~

gitlfs/2.7.1
~~~~~ category: vision
~~~~~

opencv/3.2.0      scikit-image/0.13.1  tesseract/3.05.00
opencv/3.4.1      scikit-image/0.15.0  tesseract/4.00.00
~~~~~ category: visualization
~~~~~

atomeye/3.0          ovito/2.8.2
basemap/1.2.0        ovito/2.9.0
blender/2.78        paraview/5.1.0
blender/2.79        paraview/5.1.0_yurt
cartopy/0.16.0       paraview/5.4.1
cartopy/0.17.0       paraview/5.6.0_no_scalable
cave-demo/yurt       paraview/5.6.0_yurt
cave-utils/yurt     paraview/5.8.0
caviar/1.0           paraview/5.8.0_mesa
ferret/7.1           photoscan/1.3.0
gdal/2.1.3           pyshp/2.0.1
gdal/2.4.0           shapely/1.6.4
gdal/3.0.4           tecplot/2017
gephi/0.9.2         tecplot/2017R3
gimp/2.8.22         tecplot/2018R2
gimp/2.9.6          unity/Unity-2017.3.0b1
glm/0.9.9           unity/unity-editor-2017.2.0f3
glm/0.9.9.5        visit/2.13.2
grace/5.1.25        visit/2.7.2
graphviz/2.40.1     vmd/1.9.3
minvr/0.3master     vrg3d/265
minvr/0.4           vrg3d/265_compat
minvr/beta          vrg3d/265_demos
minvr/beta-bleeding vtk/5.6.1
minvr/dev_ben       vtk/7.1.1
ncview/2.1.7        vtk/7.1.1a
openscad/2015.03-3  vtk/8.1.0
openscenegraph/3.4.0 xcrysden/1.5.60
osgearth/2.7

~~~~~ category: vizualization
~~~~~

```



```

metashape/1.5.4
~~~~~
category: weather
~~~~~
wrf/3.6.1
~~~~~
category: workshop
~~~~~
workshop/1.0 workshop/3.0

```

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