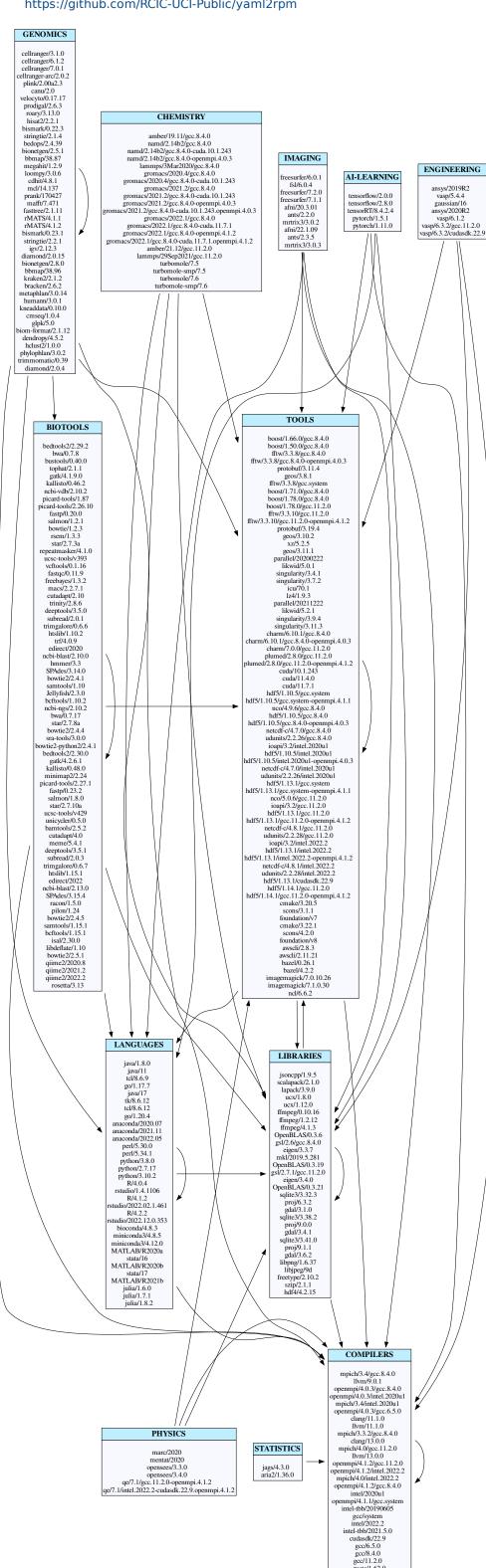# Software Modules by Category (2023-07-20)

Reusable packages created with yaml2rpm
https://github.com/RCIC-UCI-Public/yaml2rpm

Legend

modules in A depend on modules in B
A ───────► B

GENOMICS

cellranger/3.1.0
cellranger/6.1.2
cellranger/7.0.1
cellranger-arc/2.0.2
plink/2.00a2.3
canu/2.0
velocyto/0.17.17
prodigal/2.6.3
roary/3.13.0
hisat2/2.2.1
bismark/0.22.3
stringtie/2.1.4
bedops/2.4.39
bionetgen/2.5.1
bbmap/38.87
megahit/1.2.9
loompy/3.0.6
cdhit/4.8.1
mcl/14.137
prank/170427
mafft/7.471
fasttree/2.1.11
rMATS/4.1.1
rMATS/4.1.2
bismark/0.23.1
stringtie/2.2.1
igv/2.12.3
diamond/2.0.15
bionetgen/2.8.0
bbmap/38.96
kraken2/2.1.2
bracken/2.6.2
metaphlan/3.0.14
humann/3.0.1
kneaddata/0.10.0
cmseq/1.0.4
glpk/5.0
biom-format/2.1.12
dendropy/4.5.2
hclust2/1.0.0
phylophlan/3.0.2
trimmomatic/0.39
diamond/2.0.4

CHEMISTRY

amber/19.11/gcc.8.4.0
namd/2.14b2/gcc.8.4.0
namd/2.14b2/gcc.8.4.0-cuda.10.1.243
namd/2.14b2/gcc.8.4.0-openmpi.4.0.3
lammps/3Mar2020/gcc.8.4.0
gromacs/2020.4/gcc.8.4.0
gromacs/2020.4/gcc.8.4.0-cuda.10.1.243
gromacs/2021.2/gcc.8.4.0
gromacs/2021.2/gcc.8.4.0-cuda.10.1.243
gromacs/2021.2/gcc.8.4.0-openmpi.4.0.3
gromacs/2021.2/gcc.8.4.0-cuda.10.1.243.openmpi.4.0.3
gromacs/2022.1/gcc.8.4.0
gromacs/2022.1/gcc.8.4.0-cuda.11.7.1
gromacs/2022.1/gcc.8.4.0-openmpi.4.1.2
gromacs/2022.1/gcc.8.4.0-cuda.11.7.1.openmpi.4.1.2
amber/21.12/gcc.11.2.0
lammps/29Sep2021/gcc.11.2.0
turbomole/7.5
turbomole-smp/7.5
turbomole/7.6
turbomole-smp/7.6

IMAGING

freesurfer/6.0.1
fsl/6.0.4
freesurfer/7.2.0
freesurfer/7.1.1
afni/20.3.01
ants/2.2.0
mrtrix3/3.0.2
afni/22.1.09
ants/2.3.5
mrtrix3/3.0.3

AI-LEARNING

tensorflow/2.0.0
tensorflow/2.8.0
tensorRT/8.4.2.4
pytorch/1.5.1
pytorch/1.11.0

ENGINEERING

ansys/2019R2
vasp/5.4.4
gaussian/16
ansys/2020R2
vasp/6.1.2
vasp/6.3.2/gcc.11.2.0
vasp/6.3.2/cudasdk.22.9

BIOTOOLS

bedtools2/2.29.2
bwa/0.7.8
bustools/0.40.0
tophat/2.1.1
gatk/4.1.9.0
kallisto/0.46.2
ncbi-vdb/2.10.2
picard-tools/1.87
picard-tools/2.26.10
fastp/0.20.0
salmon/1.2.1
bowtie/1.2.3
rsem/1.3.3
star/2.7.3a
repeatmasker/4.1.0
ucsc-tools/v393
vcftools/0.1.16
fastqc/0.11.9
freebayes/1.3.2
macs/2.2.7.1
cutadapt/2.10
trinity/2.8.6
deeptools/3.5.0
subread/2.0.1
trimgalore/0.6.6
htslib/1.10.2
trf/4.0.9
edirect/2020
ncbi-blast/2.10.0
hmmer/3.3
SPAdes/3.14.0
bowtie2/2.4.1
samtools/1.10
Jellyfish/2.3.0
bcftools/1.10.2
ncbi-ngs/2.10.2
bwa/0.7.17
star/2.7.8a
bowtie2/2.4.4
sra-tools/3.0.0
bowtie2-python2/2.4.1
bedtools2/2.30.0
gatk/4.2.6.1
kallisto/0.48.0
minimap2/2.24
picard-tools/2.27.1
fastp/0.23.2
salmon/1.8.0
star/2.7.10a
ucsc-tools/v429
unicycler/0.5.0
bamtools/2.5.2
cutadapt/4.0
meme/5.4.1
deeptools/3.5.1
subread/2.0.3
trimgalore/0.6.7
htslib/1.15.1
edirect/2022
ncbi-blast/2.13.0
SPAdes/3.15.4
racon/1.5.0
pilon/1.24
bowtie2/2.4.5
samtools/1.15.1
bcftools/1.15.1
isal/2.30.0
libdeflate/1.10
bowtie/2.5.1
qiime2/2020.8
qiime2/2021.2
qiime2/2022.2
rosetta/3.13

TOOLS

boost/1.66.0/gcc.8.4.0
boost/1.50.0/gcc.8.4.0
fftw/3.3.8/gcc.8.4.0
fftw/3.3.8/gcc.8.4.0-openmpi.4.0.3
protobuf/3.11.4
geos/3.8.1
fftw/3.3.8/gcc.system
boost/1.71.0/gcc.8.4.0
boost/1.78.0/gcc.8.4.0
boost/1.78.0/gcc.11.2.0
fftw/3.3.10/gcc.11.2.0
fftw/3.3.10/gcc.11.2.0-openmpi.4.1.2
protobuf/3.19.4
geos/3.10.2
xz/5.2.5
geos/3.11.1
parallel/20200222
likwid/5.0.1
singularity/3.4.1
singularity/3.7.2
icu/70.1
lz4/1.9.3
parallel/20211222
likwid/5.2.1
singularity/3.9.4
singularity/3.11.3
charm/6.10.1/gcc.8.4.0
charm/6.10.1/gcc.8.4.0-openmpi.4.0.3
charm/7.0.0/gcc.11.2.0
plumed/2.8.0/gcc.11.2.0
plumed/2.8.0/gcc.11.2.0-openmpi.4.1.2
cuda/10.1.243
cuda/11.4.0
cuda/11.7.1
hdf5/1.10.5/gcc.system
nco/4.9.6/gcc.8.4.0
hdf5/1.10.5/gcc.8.4.0
hdf5/1.10.5/gcc.8.4.0-openmpi.4.0.3
netcdf-c/4.7.0/gcc.8.4.0
udunits/2.2.26/gcc.8.4.0
ioapi/3.2/intel.2020u1
hdf5/1.10.5/intel.2020u1
hdf5/1.10.5/intel.2020u1-openmpi.4.0.3
netcdf-c/4.7.0/intel.2020u1
udunits/2.2.26/intel.2020u1
hdf5/1.13.1/gcc.system
hdf5/1.13.1/gcc.system-openmpi.4.1.1
nco/5.0.6/gcc.11.2.0
ioapi/3.2/gcc.11.2.0
hdf5/1.13.1/gcc.11.2.0
hdf5/1.13.1/gcc.11.2.0-openmpi.4.1.2
netcdf-c/4.8.1/gcc.11.2.0
udunits/2.2.28/gcc.11.2.0
ioapi/3.2/intel.2022.2
hdf5/1.13.1/intel.2022.2
hdf5/1.13.1/intel.2022.2-openmpi.4.1.2
netcdf-c/4.8.1/intel.2022.2
udunits/2.2.28/intel.2022.2
hdf5/1.13.1/cudasdk.22.9
hdf5/1.14.1/gcc.11.2.0
hdf5/1.14.1/gcc.11.2.0-openmpi.4.1.2
cmake/3.20.5
scons/3.1.1
foundation/v7
cmake/3.22.1
scons/4.2.0
foundation/v8
awscli/2.8.3
awscli/2.11.21
bazel/0.26.1
bazel/4.2.2
imagemagick/7.0.10.26
imagemagick/7.1.0.30
ncl/6.6.2

LANGUAGES

java/1.8.0
java/11
tcl/8.6.9
go/1.17.7
java/17
tk/8.6.12
tcl/8.6.12
go/1.20.4
anaconda/2020.07
anaconda/2021.11
anaconda/2022.05
perl/5.30.0
perl/5.34.1
python/3.8.0
python/2.7.17
python/3.10.2
R/4.0.4
rstudio/1.4.1106
R/4.1.2
rstudio/2022.02.1.461
R/4.2.2
rstudio/2022.12.0.353
bioconda/4.8.3
miniconda/3/4.8.5
miniconda/3/4.12.0
MATLAB/R2020a
stata/16
MATLAB/R2020b
stata/17
MATLAB/R2021b
julia/1.6.0
julia/1.7.1
julia/1.8.2

LIBRARIES

jsoncpp/1.9.5
scalapack/2.1.0
lapack/3.9.0
ucx/1.8.0
ucx/1.12.0
ffmpeg/0.10.16
ffmpeg/1.2.12
ffmpeg/4.1.3
OpenBLAS/0.3.6
gsl/2.6/gcc.8.4.0
eigen/3.3.7
mkl/2019.5.281
OpenBLAS/0.3.19
gsl/2.7.1/gcc.11.2.0
eigen/3.4.0
OpenBLAS/0.3.21
sqlite3/3.32.3
proj/6.3.2
gdal/3.1.0
sqlite3/3.38.2
proj/9.0.0
gdal/3.4.1
sqlite3/3.41.0
proj/9.1.1
gdal/3.6.2
libpng/1.6.37
libjpeg/9d
freetype/2.10.2
szip/2.1.1
hdf4/4.2.15

COMPILERS

mpich/3.4/gcc.8.4.0
llvm/9.0.1
openmpi/4.0.3/gcc.8.4.0
openmpi/4.0.3/intel.2020u1
mpich/3.4/intel.2020u1
openmpi/4.0.3/gcc.6.5.0
clang/11.1.0
llvm/11.1.0
mpich/3.3.2/gcc.8.4.0
clang/13.0.0
mpich/4.0/gcc.11.2.0
llvm/13.0.0
openmpi/4.1.2/gcc.11.2.0
openmpi/4.1.2/intel.2022.2
mpich/4.0/intel.2022.2
openmpi/4.1.2/gcc.8.4.0
intel/2020u1
openmpi/4.1.1/gcc.system
intel-tbb/20190605
gcc/system
intel/2022.2
intel-tbb/2021.5.0
cudasdk/22.9
gcc/6.5.0
gcc/8.4.0
gcc/11.2.0
rustc/1.62.0

PHYSICS

marc/2020
mentat/2020
opensees/3.3.0
opensees/3.4.0
qe/7.1/gcc.11.2.0-openmpi.4.1.2
qe/7.1/intel.2022.2-cudasdk.22.9.openmpi.4.1.2

STATISTICS

jags/4.3.0
aria2/1.36.0