

Migrated Software

Table of Contents

- [ABINIT](#)
- [ARPACK \(Eigenvalue problem\)](#)
- [Emacs](#)
- [FFTW2 \(Fast fourier transform\)](#)
- [FFTW3 \(Fast fourier transform\)](#)
- [freeglut](#)
- [FrontFlow/red](#)
- [GAMESS](#)
- [Git](#)
- [GMT](#)
- [Gnuplot](#)
- [Grace](#)
- [GrADS](#)
- [gromacs](#)
- [HDF4](#)
- [HDF5](#)
- [Meep](#)
- [NAMD](#)
- [NCAR Graphics](#)
- [Ncview](#)
- [NetCDF](#)
- [octave](#)
- [OpenCV](#)
- [OpenFOAM](#)
- [paraview](#)
- [pdftk](#)
- [PETSc](#)
- [PHASE](#)
- [p1plot](#)
- [Python](#)
- [R](#)
- [SALS](#)
- [SLEPc](#)
- [SuperLU](#)
- [WRF](#)

We provide well-known packages and libraries, and also distribute software sources and environments of Configure and Make to provide the know-how of how to make various packages. If you have any suggestions or comments, please feel free to contact to our [programming support desk](#) [1]. Please also tell us if you require software that is not listed below.

Their usage conditions are in accordance with individual software conditions.

For more information about using the Migrated Software, please refer to the manual of each software.

Key:

+ = Available for all users.

– = Not available for use.

ABINIT

Distribution Website

-
- [Computing Services \(IIMC\)](#)
 - [User Portal](#)
 - [Contact Us](#)

[RSS21](#) [2]

Module File

Version	Module File	System A	System B	System C	System D	System E
5.0	abinit-mp/5.0	–	+	+	–	–
4.1	abinit-mp/4.1_	–	–	–	+	–
	cce-8.3					
	abinit-mp/4.1_	+	–	–	–	–
	cce-8.0.4					
	abinit-mp/4.1_	–	–	–	+	–
	intel-14.0					
	abinit-mp/4.1_	–	+	+	–	–
	intel-12.1					

Install Directory

/opt/app/abinit-mp

ARPACK

Distribution Website

[ARPACK – Arnoldi Package](#) [3]

Module File

Version	Module File	System A	System B	System C	System D	System E
96	arpack/96_cce-	–	–	–	+	–
	8.3					
	arpack/96_cce-	+	–	–	–	–
	8.0.4					
	arpack/96_inte-	–	–	–	+	–
	l-14.0					
	arpack/96_inte-	+	+	+	–	–
	l-12.1					

Install Directory

/opt/app/arpack

Emacs

Distribution Website

[GNU Emacs](#) [4]

Module File

Version	Module File	System A	System B	System C	System D	System E
24.3	emacs/24.3	+	+	+	+	–
24.2	emacs/24.2	+	+	+	+	–
23.4(default)	emacs/23.4	+	+	+	+	–

Install Directory

/use/local/emacs-XX

FFTW2

Distribution Website

[FFTW Home Page](#) [5]

Module File

Version	Module File	System A	System B	System C	System D	System E
2.1.5.3	fftw/2.1.5.3	+	-	-	-	-

FFTW3

Distribution Website

[FFTW Home Page](#) [5]

Module File

Version	Module File	System A	System B	System C	System D	System E
3.3.1	fftw/3.3.1_intel-12.1	-	+	+	-	-
	fftw/3.3.1_gnu-4.4.6	-	+	+	-	-
	fftw/3.3.1_pgi-12.8	-	+	+	-	-
	fftw/3.3.0.2	+	-	-	-	-
3.3.0	fftw/3.3.0.0	+	-	-	-	-

Install Directory

`/opt/app/fftw`

freeglut

Distribution Website

[The freeglut Project](#) [6]

Module File

Version	Module File	System A	System B	System C	System D	System E
2.8.0	freeglut/2.8.0_intel-12.1	-	+	+	-	-
	freeglut/2.6.0_intel-12.1	-	+	+	-	-

Install Directory

`/opt/app/freeglut`

FrontFlow/red

Distribution Website

- [Computing Services \(IIMC\)](#)
- [User Portal](#)
- [Contact Us](#)

[RSS21](#) [2]

Module File

Version	Module File	System A	System B	System C	System D	System E
3.0.0	frontflow_red/	–	–	–	+	–
	3.0.0_cce-8.3					
	frontflow_red/	–	–	–	+	–
	3.0.0_intel-14.0					
	frontflow_red/	+	+	+	–	–
	3.0.0_intel-12.1					

Install Directory

/opt/app/frontflow_red

GAMESS

Distribution Website

[Gordon Group / GAMESS Homepage](#) [7]

Module File

Version	Module File	System A	System B	System C	System D	System E
2013_r1	gamess/2013R	–	–	–	+	–
	1_cce-8.3					
	gamess/2013R	–	–	–	+	–
	1_intel-14.0					
	gamess/2013R	–	–	–	+	–
	1_pgi-14.3					
2011_r1	gamess/08.11.	+	–	–	–	–
	2011_r1_pgi-12					
	.3_xt-mpich2					
	gamess/08.11.	–	+	+	–	–
	2011_r1_intel-1					
	2.1_impj					

Install Directory

/opt/app/gamess

Git

Distribution Website

[Git](#) [8]

Module File

Version	Module File	System A	System B	System C	System D	System E
1.8.0.1	git/1.8.0.1	+	+	+	–	–

Install Directory

/opt/app/git

GMT

Distribution Website

[The GMT Home Page](#) [9]

Module File

Version	Module File	System A	System B	System C	System D	System E
4.5.8	gmt4/4.5.8_gc	+	–	–	–	–
	c-4.6.2					
	gmt4/4.5.8_gc	–	+	+	–	–
	c-4.4.6					

Install Directory

`/opt/app/gmt4`

Gnuplot

Distribution Website

[gnuplot homepage](#) [10]

Module File

Version	Module File	System A	System B	System C	System D	System E
5.0.2	gnuplot/5.0.2	–	+	+	–	–
4.6.5(default)	gnuplot/4.6.5	–	+	+	–	–

Install Directory

`/opt/app/gnuplot`

Grace

Distribution Website

[Grace Home](#) [11]

Module File

Version	Module File	System A	System B	System C	System D	System E
5.1.23	grace/5.1.23	–	+	+	–	–

Install Directory

`/opt/app/grace`

GrADS

Distribution Website

[GrADS Home Page](#) [12]

Module File

Version	Module File	System A	System B	System C	System D	System E
2.0.2	grads/2.0.2	+	–	–	–	–
2.0.1	grads/2.0.1	+	+	+	–	–

Install Directory

/opt/app/grads

gromacs

Distribution Website

[gromacs](#) [13]

Module File

Version	Module File	System A	System B	System C	System D	System E
4.5.5	gromacs/4.5.5	+	+	+	–	–
	_intel-12.1					
	gromacs_s/4.5.5	+	–	–	–	–
	_intel-12.1					

Install Directory

/opt/app/git

HDF4

Distribution Website

[HDF Group -HDF4](#) [14]

Module File

Version	Module File	System A	System B	System C	System D	System E
2.7	hdf4/2.7_intel-	–	+	+	–	–
	12.1					
	hdf4/2.7_gnu-	–	+	+	–	–
	4.4.6					
	hdf4/2.7_pgi-1	–	+	+	–	–
	2.8					
2.6	hdf4/2.6.0	+	–	–	–	–

Install Directory

/opt/app/hdf4

HDF5

Distribution Website

[HDF Group -HDF5](#) [15]

Module File

Version	Module File	System A	System B	System C	System D	System E
1.8.9	hdf5/1.8.9_intel-12.1	-	+	+	-	-
	hdf5/1.8.9_gnu-4.4.6	-	+	+	-	-
	hdf5-parallel/1.8.9_intel-12.1	-	+	+	-	-
	hdf5-parallel/1.8.9_gnu-4.4.6	-	+	+	-	-
	hdf5/1.8.8	+	-	-	-	-
1.8.8	hdf5/1.8.8_intel-12.1	-	+	+	-	-
	hdf5/1.8.8_gnu-4.4.6	-	+	+	-	-
	hdf5-parallel/1.8.8	+	-	-	-	-
	hdf5-parallel/1.8.8_intel-12.1	-	+	+	-	-
	hdf5-parallel/1.8.8_gnu-4.4.6	-	+	+	-	-
1.8.7	hdf5/1.8.7	+	-	-	-	-
	hdf5-parallel/1.8.7	+	-	-	-	-
1.8.6	hdf5/1.8.6	+	-	-	-	-
	hdf5-parallel/1.8.6	+	-	-	-	-

Install Directory

/opt/app/hdf5

Meep

Distribution Website

[Meep-AbInitio](#) [16]

Module File

Version	Module File	System A	System B	System C	System D	System E
1.2	meep/1.2_gcc-4.6.2	+	-	-	-	-
	meep_mpi/1.2_gcc-4.6.2	+	-	-	-	-
	meep/1.2_gnu-4.4.6	-	+	+	-	-
	meep_mpi/1.2_gnu-4.4.6	-	+	+	-	-

Install Directory

/opt/app/meep

/opt/app/meep_mpi

NAMD

Distribution Website

[NAMD](#) [17]

Module File

Version	Module File	System A	System B	System C	System D	System E
2.9	NAMD	+	–	–	–	–
	/2.9_gcc-4.6.2					
	NAMD	–	+	+	–	–
	/2.9_intel-12.1					

Install Directory

`/opt/app/NAMD`

NCAR Graphics

Distribution Website

[NCAR Graphics](#) [18]

Module File

Version	Module File	System A	System B	System C	System D	System E
6.1.0	ncarg/6.1.0-be	+	–	–	–	–
	ta					

Install Directory

`/opt/app/ncarg`

Ncview

Distribution Website

[Ncview](#) [19]

Module File

Version	Module File	System A	System B	System C	System D	System E
2.1.1	ncview/2.1.1_g	+	–	–	–	–
	cc-4.6.2					
	ncview/2.1.1_g	–	+	+	–	–
	cc-4.4.6					

Install Directory

`/opt/app/ncview`

NetCDF

Distribution Website

[Unidata | NetCDF](#) [20]

Module File

Version	Module File	System A	System B	System C	System D	System E
4.2.0	netcdf/4.2.0	+	–	–	–	–
	netcdf-hdf5par + allel/4.2.0	+	–	–	–	–
4.1.3	netcdf/4.1.3	+	–	–	–	–
	netcdf-hdf5par + allel/4.1.3	+	–	–	–	–
	netcdf/4.1.3_in – tel-12.1	–	+	+	–	–
	netcdf/4.1.3_g – nu-4.4.6	–	+	+	–	–
4.1.2	netcdf/4.1.2	+	–	–	–	–
	netcdf-hdf5par + allel/4.1.2	+	–	–	–	–
3.6.3	netcdf/3.6.3_in – tel-12.1	–	+	+	–	–
	netcdf/3.6.3_g – nu-4.4.6	–	+	+	–	–
	netcdf/3.6.3_p – gi-12.8	–	+	+	–	–
	netcdf/3.6.2	+	–	–	–	–

Install Directory

`/opt/app/netcdf`

octave

Distribution Website

[GNU Octave](#) [21]

Module File

Version	Module File	System A	System B	System C	System D	System E
3.4.3	octave/3.4.3	–	+	+	–	–

Install Directory

`/opt/app/octave`

OpenCV

Distribution Website

[Open Computer Vision Library](#) [22]

Module File

Version	Module File	System A	System B	System C	System D	System E
---------	-------------	----------	----------	----------	----------	----------

2.4.9	opencv/2.4.9_	-	-	+	-
	gcc-4.9				
2.3.1	opencv/2.3.1_i	+	+	-	-
	ntel-12.1				

Install Directory

```
/opt/app/opencv
```

OpenFOAM

Distribution Website

[OpenFOAM The open source CFD toolbox](#) [23]

Module File

Version	Module File	System A	System B	System C	System D	System E
2.3.0	openfoam/2.3.0	+	+	+	-	-
2.1.1	openfoam/2.1.1_gnu-4.4.6	-	+	+	-	-
2.1.0	openfoam/2.1.0_intel-12.1	-	+	+	-	-

Install Directory

```
/opt/app/openfoam
```

Important Notice

When you run the execution script “ Allrun ” by using the sample program for the tutorial, modify the Allrun script if it includes MPI, as described below.

When running in interactive mode.

Modify the Allrun script as shown below, and run ./Allrun directly.

```
(Before modifying)
# Source tutorial run functions
. $WM_PROJECT_DIR/bin/tools/RunFunctions
```

```
(After modifying)
# Source tutorial run functions
. $WM_PROJECT_DIR/bin/tools/RunFunctions.tssrun
```

When running in batch mode.

Modify the Allrun script as shown below, and run ./Allrun in the job script.

```
(Before modifying)
# Source tutorial run functions
. $WM_PROJECT_DIR/bin/tools/RunFunctions
```

```
(After modifying)
```

```
# Source tutorial run functions
. $WM_PROJECT_DIR/bin/tools/RunFunctions.impi
```

paraview

Distribution Website

[Paraview – Open Source Scientific Visualization](#) [24]

Module File

Version	Module File	System A	System B	System C	System D	System E
3.14	paraview/3.14	+	+	+	–	–

Install Directory

/opt/app/paraview

pdftk

Distribution Website

[PDF Labs](#) [25]

Module File

Version	Module File	System A	System B	System C	System D	System E
1.45	pdftk/1.45_gcc-4.6.2	+	–	–	–	–
	pdftk/1.45_gnu-4.4.6	–	+	+	–	–

Install Directory

/opt/app/pdftk

PETSc

Distribution Website

[PETSc Home Page](#) [26]

Module File

Version	Module File	System A	System B	System C	System D	System E
3.2	petsc/3.2.00	+	–	–	–	–
	petsc-complex/3.2.00	+	–	–	–	–
	petsc/3.2_intel-12.1	–	+	+	–	–
	petsc-complex/3.2_intel-12.1	–	+	+	–	–

Install Directory

`/opt/app/petsc`

PHASE

Distribution Website

[RSS21](#) [2]

Module File

Version	Module File	System A	System B	System C	System D	System E
2014.1	phase/2014.1_ gcc-4.9	–	–	–	+	–
10.01	phase/10.01_i ntel-12.1	–	+	+	–	–
7.01	phase/7.01_int el-12.1	+	+	+	–	–
Version	Module File	System A	System B	System C	System D	System E
3.3.0	phase-viewer/ 3.3.0	–	–	–	+	–
3.2.0	phase-viewer/ 3.2.0	–	+	+	–	–

Install Directory

`/opt/app/phase`

plplot

Distribution Website

[PLplot Home Page](#) [27]

Module File

Version	Module File	System A	System B	System C	System D	System E
5.9.9	plplot/5.9.9_in tel-12.1	–	+	+	–	–
	plplot/5.9.9_g nu-4.4.6	–	+	+	–	–

Install Directory

`/opt/app/plplot`

Python

Distribution Website

[Python Programming Language – Official Website](#) [28]

Module File

Version	Module File	System A	System B	System C	System D	System E
2.7.4	Python/2.7.4_intel-12.1	-	+	+	-	-

Install Directory

/opt/app/Python

R

Distribution Website

[The R Project for Statistical Computing](#) [29]

Module File

Version	Module File	System A	System B	System C	System D	System E
3.0.1	R/3.0.1_gcc-4.6	-	+	+	-	-
2.15.0	R/2.15.0_gcc-4.6	-	+	+	-	-

Install Directory

/opt/app/R

SALS

Module File

Version	Module File	System A	System B	System C	System D	System E
2.5	sals/2.5_cce-8.3	-	-	-	+	-
	sals/2.5_intel-4.0	-	-	-	+	-
	sals/2.5_intel-2.1	+	+	+	-	-

Install Directory

/opt/app/sals

Example of compiling and linking

```
$ ifort main.f $SALS_SLIB_D ?Static link library in double precision?
```

```
$ ifort main.f $SALS_SLIB_S ?Static link library in single precision?
```

```
$ ifort main.f $SALS_DLIB_D ?Dynamic link library in double precision?
```

```
$ ifort main.f $SALS_DLIB_S ?Dynamic link library in single precision?
```

Important Notice

When you publish a printed report of a research that uses SALS, you need to include the program name SALS and the name of the author in the report.

Copying an installed SALS and giving it to a third party is not allowed.

SLEPc

Distribution Website

[SLEPc Home Page](#) [30]

Module File

Version	Module File	System A	System B	System C	System D	System E
3.2	slepc/3.2_intel-12.1	–	+	+	–	–
	slepc-complex/3.2_intel-12.1	–	+	+	–	–

Install Directory

/opt/app/slepc

SuperLU

Distribution Website

[SuperLU](#) [31]

Module File

Version	Module File	System A	System B	System C	System D	System E
4.3	superlu/4.3_intel-12.1	–	+	+	–	–

Install Directory

/opt/app/superlu

WRF

Distribution Website

[WRF Model UsersSite](#) [32]

Module File

Version	Module File	System A	System B	System C	System D	System E
3.3.1	wrf/3.3.1_cce-8.3	–	–	–	+	–
	wrf/3.3.1_cce-8.0.4	+	–	–	–	–
	wrf/3.3.1_intel-12.1	+	+	+	–	–

We provide the compiled module file as a sample, because the WRF includes various simulation models. Please

copy the sample configuration file depending on the simulation model you use, compile in your own local environment.

How to Compile

The example below shows how to compile in the system A.

1. Set up the environment.

```
$ module switch PrgEnv-cray PrgEnv-intel
$ module load netcdf
$ export NETCDF=/opt/cray/netcdf/4.1.3/intel/120
```

2. Download the source at the WRF website, then overwrite the `configure_new.defaults` file in the `WRFV3/arch/` directory with the file in the following directory.

```
/opt/app/wrf/3.3.1/intel-12.1/WRFV3/arch/configure_new.defaults
```

3. Execute the `./configure` in the `WRFV3` directory.

Items for each compiler will be displayed.

Select one of the following: `serial`, `smpar`, `dmpar`, or `dm+sm`.

4. Compile by the model you need, according to the menu of the `./compile` command.

Install Directory

```
/opt/app/wrf
```

- [Administrator Login](#)

Source URL: <http://web.kudpc.kyoto-u.ac.jp/manual/en/application/software>

Links:

[1] <http://www.iimc.kyoto-u.ac.jp/en/services/comp/contact.html>

[2] <http://www.ciss.iis.u-tokyo.ac.jp/rss21/index.html>

[3] <http://www.caam.rice.edu/software/ARPACK/>

[4] <http://www.gnu.org/software/emacs/emacs.html>

[5] <http://www.fftw.org/>

[6] <http://freeglut.sourceforge.net/>

[7] <http://www.msg.ameslab.gov/GAMESS/>

[8] <http://git-scm.com/>

[9] <http://www.soest.hawaii.edu/gmt/>

[10] <http://www.gnuplot.info/>

[11] <http://plasma-gate.weizmann.ac.il/Grace/>

[12] <http://www.iges.org/grads/>

[13] <http://www.gromacs.org/>

[14] <http://www.hdfgroup.org/products/hdf4/>

[15] <http://www.hdfgroup.org/HDF5/>

[16] <http://ab-initio.mit.edu/wiki/index.php/Meep>

- [Computing Services \(IIMC\)](#)
- [User Portal](#)
- [Contact Us](#)

- [17] <http://www.ks.uiuc.edu/Research/namd/>
- [18] <http://ngwww.ucar.edu/>
- [19] http://meteora.ucsd.edu/~pierce/ncview_home_page.html
- [20] <http://www.unidata.ucar.edu/software/netcdf/>
- [21] <https://www.gnu.org/software/octave/>
- [22] <http://sourceforge.net/projects/opencvlibrary/>
- [23] <http://www.openfoam.com/>
- [24] <http://www.paraview.org/>
- [25] <http://www.pdf labs.com/>
- [26] <http://www.mcs.anl.gov/petsc/>
- [27] <http://plplot.sourceforge.net/>
- [28] <http://www.python.org/>
- [29] <http://www.r-project.org/>
- [30] <http://www.grycap.upv.es/slepc/>
- [31] <http://crd-legacy.lbl.gov/~xiaoye/SuperLU/>
- [32] <http://www.mmm.ucar.edu/wrf/users/>