



Environment Modules

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Environment Module `modulefile`

(load) (unload) (switch)

Environment Modules

`/etc/profile` `~/.bashrc` `~/.bash_profile` Environment Module

`source` Environment Module

`module`

Environment Modules



- `module help`
- `module avail`
- `module list`
- `module load MODULEFILE`
- `module unload MODULEFILE`
- `module switch OLD_MODULEFILE NEW_MODULEFILE` `module unload OLD_MODULEFILE; module load NEW_MODULEFILE`
- `module purge`
- `module whatis MODULEFILE`
- `module display MODULEFILE`
- `module use`
- `module unuse`

□ Bash

□□□ Bash □□ Login Shell □□□□□□□□□□□□□□

Shell □□□ bsub □□ -L

□□□□□□ Login Shell □ Bash

□ Login Shell □ tcsh□□□□□□□□□□□□

```
#!/bin/tcsh #□□□□Shell
#BSUB ...
...
```

```
...
#BSUB -L /bin/bash #□□□□□□Login Shell□Bash
...
```



```
$ module avail #□□□□□□□□
```

```
----- /fs00/software/modulefiles -----
gcc/5.2.0                impi/5.0.3.048
iccifort/15.0.3          ips/2011splu3
ics/2013                 ips/2015u3
ics/2013splu1            openmpi/1.10.0-gcc-5.2.0
imkl/11.2.3              openmpi/1.10.0-iccifort-15.0.3
```

```
$ module list #□□□□□□□□
```

```
No Modulefiles Currently Loaded. #□□□□□□□□
```

```
$ icc --version #□icc□□□
```

```
-bash: icc: command not found
```

```
$ module whatis ips/2015u3 #□□□□□□□□
```

```
ips/2015u3                : Intel Parallel Studio XE 2015 Update 3 Cluster Edition
```

```
$ module load ips/2015u3 #□□□□
```

```
$ icc --version
```

icc (ICC) 15.0.3 20150407

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```
$ module list #□□□□□□□□
```

Currently Loaded Modulefiles:

1) ips/2015u3

```
$ module unload ips/2015u3 #□□□□
```



```
$ module use
```

Search path for module files (in search order):

/fs00/software/modulefiles

```
$ module avail
```

--- /fs00/software/modulefiles ---

gcc/12.1.0

.....

```
$ module use /fs00/software/modulefiles/oneapi/2024.0 #□□MODULEPATH□□□□
```

```
$ module use
```

Search path for module files (in search order):

/fs00/software/modulefiles/oneapi/2024.0

/fs00/software/modulefiles

```
$ module avail
```

--- /fs00/software/modulefiles/oneapi/2024.0 ---

mk132/2024.0

compiler/2024.0.2

mk1/2024.0

.....

--- /fs00/software/modulefiles ---

gcc/12.1.0

.....

