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Environment Modules

Environment Module

Environment Module modulefile

(load) (unload) (switch)

Environment Module

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

source Environment Module

module

Environment Modules

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- module 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
...
```

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```
$ module avail #❏❏❏❏❏❏❏❏❏❏❏❏

----- /fs00/software/modulefiles -----
gcc/5.2.0                impi/5.0.3.048
iccifort/15.0.3           ips/2011sp1u3
ics/2013                  ips/2015u3
ics/2013sp1u1             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 #❏❏❏❏❏❏❏❏❏❏❏❏
-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 #□□□□
```

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```
$ 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 ---

mkl32/2024.0

compiler/2024.0.2

mkl/2024.0

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

gcc/12.1.0

Revision #9

Created 2 February 2022 17:02:30 by Yao Ge

Updated 24 December 2023 22:26:28 by Yao Ge