

Module

Cluster user software environment

Each cluster shell account has a default **bash** shell upon login. This should meet the needs of most users. To change to other shells, such as **cs**, **zsh**, **tcsh**, use the **chsh** command. Additional info on the chsh command is available through the man pages.

Module management for software package user environment

Software environments are managed through the use of the [module](#) approach. Many commercial packages and some public domain software require various settings that can often lead to clashes in the user shell environment. In order to use a package on the cluster, you must load that package's module. For example to use matlab:

```
> module load matlab  
before running matlab.
```

Note that there are several versions of many programs. Load the version of interest.

To see what packages and versions that are under module control:

```
> module avail
```

To unload a package from your environment:

```
> module unload matlab
```

To see loaded packages in your environment:

```
> module list
```

To unload all packages in your environment:

```
> module purge
```

From time to time there are some software that is not under module control.

For example, python built packages that are system-wide:

```
$ module load python/2.7.6
```

To see what python apps are available:

```
$ pip list
```