

# The PDC Cheat-Sheet

## Find and Help

```
man, man -k searchstr
command --help, -h
apropos, info command
which command
type command
grep pattern file
command | grep pattern file
```

## Environment

```
module avail
module add modulename
module show modulename
module list
echo $variable
export variable=value
```

## Kerberos and Login

```
module add heimdal
kinit -f user@NADA.KTH.SE
klist -Tf
kdestroy
kpasswd
rxtelnet -F -l user nodename.pdc.kth.se
ssh -l user nodename.pdc.kth.se
ftp -p ftp.pdc.kth.se
```

## AFS

```
module add afsws
afslog
unlog
tokens
fs listacl directory
fs setacl directory rights user
where rights is none, read, write, all—
fs listquota directory
fs help command
pts member user
pts creategroup groupname
pts adduser user groupname
pts examine groupname
pts help command
```

## Storage

```
Home directory, ~
/afs/pdc.kth.se/home/u/user
ls -lah
```

```
df -h
du -sh file
```

## Compile and run

```
Compiler modules gcc, i-compilers, pgi
ifort, icc, gcc
./example
source example
Bash script #!/bin/bash
chmod u+x script.sh
```

## Debug

```
gcc -g and gdb
trace and strace
```

## Monitoring

```
ps, ps -a, ps -ef
top (quit with q)
kill, kill -9 pid
Ctrl-c, Ctrl-z, bg
```

## Edit and Display

```
less, more (quit with q)
cat file
vi, emacs
```

## Computer info

```
uname, uname -a
less /proc/cpuinfo
less /proc/meminfo
```

## EASY

```
module add easy
esubmit -h -v
esubmit -n 1 -t 5 -c cacname job
esubmit -n 4 -t 30 job "> job.out"
spq -u $USER
cac members user
cac examine cacname
cac help
spfrees -h
spjobsummary -h
sprelease
spstatus
spsummary -h
spusage -h
```