
Working with NFS files

Files saved on the UITS central Unix computers Chrome, Cobalt, Zinc, Steel, EZinfo, and STARRS/SP are stored on the Network File Server (NFS). That means that your files are really on one disk, in directories named for the central Unix hosts on which you have accounts.

No matter which of these computers you are logged into, you can get to your files on any of the others. Here are the commands to use to get to any system directory from any other system:

```
cd /N/u/username/Chrome/  
cd /N/u/username/Cobalt/  
cd /N/u/username/Zinc/  
cd /N/u/username/Steel/  
cd /N/u/username/EZinfo/  
cd /n/u/username/SP/
```

Be sure you use the capitalization just as you see above, and substitute your own username for *username*.

For example, if Jessica Rabbit is logged into her account on Steel, and wants to get a file on her EZinfo account, she would enter:

cd /N/u/jrabbit/EZinfo/

Now when she lists her files, she'll see her EZinfo files, even though she's actually logged into Steel.

You can use the ordinary Unix commands to move files, copy files, or make symbolic links between files. For example, if John Doe wanted to move "file1" from his Steel directory to his EZinfo directory, he would enter:

mv -i /N/u/jdoe/Steel/file1 /N/u/jdoe/EZinfo/

This shared file system means that you can access, for example, your Chrome files even when you are logged into Cobalt, and vice versa. However, if you are logged into Chrome, you can only use the software installed on Chrome —only users' directories are linked together, not system directories.

Unix commands reference card

Abbreviations used in this pamphlet

Ctrl/x	hold down control key and press x
d	directory
env	environment
f	filename
n	number
nd	computer node
var	variable
[y/n]	yes or no
[]	optional arg
...	list

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Environment Control

Command	Description
cd <i>d</i>	Change to directory <i>d</i>
mkdir <i>d</i>	Create new directory <i>d</i>
rmdir <i>d</i>	Remove directory <i>d</i>
mv <i>f1</i> [<i>f2...</i>] <i>d</i>	Move file <i>f</i> to directory <i>d</i>
mv <i>d1</i> <i>d2</i>	Rename directory <i>d1</i> as <i>d2</i>
passwd	Change password
alias <i>name1</i> <i>name2</i>	Create command alias
unalias <i>name1</i>	Remove command alias <i>name1</i>
rlogin <i>nd</i>	Login to remote node
logout	End terminal session
setenv <i>name</i> <i>v</i>	Set env var to value <i>v</i>
unsetenv <i>name1</i> <i>name2...</i>	remove environment variable

Output, Communication, & Help

Command	Description
lpr -P <i>printer</i> <i>f</i>	Output file <i>f</i> to line printer
script [<i>f</i>]	Save terminal session to <i>f</i>
exit	Stop saving terminal
session	
mail <i>username</i>	Send mail to user
biff [<i>y/n</i>]	Instant notification of mail
man <i>name</i>	UNIX manual entry for <i>name</i>
learn	Online tutorial

Process Control

Command	Description
Ctrl/c *	Interrupt processes
Ctrl/s *	Stop screen scrolling
Ctrl/q *	Resume screen output
sleep <i>n</i>	Sleep for <i>n</i> seconds
jobs	Print list of jobs
kill [% <i>n</i>]	Kill job <i>n</i>
ps	Print process status stats
kill -9 <i>n</i>	Remove process <i>n</i>
Ctrl/z *	Suspend current process
stop % <i>n</i>	Suspend background job <i>n</i>
command&	Run command in background
bg [% <i>n</i>]	Resume background job <i>n</i>
fg [% <i>n</i>]	Resume foreground job <i>n</i>
exit	Exit from shell

Environment Status

Command	Description
ls [<i>d</i>] [<i>f...</i>]	List files in directory
ls -l [<i>f...</i>]	List files in detail
alias [<i>name</i>]	Display command aliases
printenv [<i>name</i>]	Print environment values
quota	Display disk quota
date	Print date & time
who	List logged in users
whoami	Display current user
finger [<i>username</i>]	Output user information
chfn	Change finger information
pwd	Print working directory
history	Display recent commands
! <i>n</i>	Submit recent command <i>n</i>

File Manipulation

Command	Description
vi [<i>f</i>]	Vi fullscreen editor
emacs [<i>f</i>]	Emacs fullscreen editor
ed [<i>f</i>]	Text editor
wc <i>f</i>	Line, word, & char count
cat <i>f</i>	List contents of file
more <i>f</i>	List file contents by screen
cat <i>f1</i> <i>f2</i> > <i>f3</i>	Concatenates <i>f1</i> & <i>f2</i> into <i>f3</i>
chmod <i>mode</i> <i>f</i>	Change protection mode of <i>f</i>
cmp <i>f1</i> <i>f2</i>	Compare two files
cp <i>f1</i> <i>f2</i>	Copy file <i>f1</i> into <i>f2</i>
sort <i>f</i>	Alphabetically sort <i>f</i>
split [- <i>n</i>] <i>f</i>	Split <i>f</i> into <i>n</i> -line pieces
mv <i>f1</i> <i>f2</i>	Rename file <i>f1</i> as <i>f2</i>
rm <i>f</i>	Delete (remove) file <i>f</i>
grep 'ptn' <i>f</i>	Outputs lines that match <i>ptn</i>
diff <i>f1</i> <i>f2</i>	Lists file differences
head <i>f</i>	Output beginning of <i>f</i>
tail <i>f</i>	Output end of <i>f</i>

Compiler

Command	Description
cc [-o <i>f1</i>] <i>f2</i>	C compiler
lint <i>f</i>	Check C code for errors
f77 [-o <i>f1</i>] <i>f2</i>	Fortran77 compiler
pc [-o <i>f1</i>] <i>f2</i>	Pascal compiler

Press RETURN at the end of each command, except those marked by an asterisk (*).
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