Dal MSCS Unix Reference Card

Logging In

Type your **username** to the system login prompt.
Type your **password** to the system password prompt.

Logging Out

Type **logout**, or **exit**.

Change Password

Type **passwd**, and answer the system prompts for old password, new password, and verification of new password.

Help

help on a certain subject	`man -k` *subject*
help on a certain command	`man` *command*
online information	`info`

Files

The characters `?` and `*` are used for pattern matching. A `?` matches any single character, and a `*` matches an arbitrary number of characters.

Creating

create file	`see` *Editing*

Removing/Renaming/Moving/Copying

remove file	`rm` *filename*
rename file	`mv` *filename newname*
move file to another directory	`mv` *filename dirname*
copy file to another filename	`cp` *filename newfile*
copy file to another directory	`cp` *filename dirname*

Listing

list file(s)	`ls` *filename(s)*
list files sorted by time of last modification	`ls -t` *filenames*

Directories

Like filenames, directories use `?` and `*` as pattern matching characters (see *Files*). The current directory and parent directory, are named `.` and `..` respectively.

Creating/Traversing

create/make a directory	`mkdir` *dirname*
change directory to home directory	`cd`
change directory to parent directory	`cd ..`
change directory to another directory	`cd` *dirname*
print working directory	`pwd`

Removing/Renaming/Moving/Copying

remove empty directory	`rmdir` *dirname*
remove directory and contents	`rm -r` *dirname*
rename directory, or move directory to another directory	`mv` *dirname newdir*
copy directory and contents to another directory	`cp -r` *dirname dir*

Listing

list current directory contents	`ls`
list directory contents	`ls` *dirname*
list directory contents sorted by time of last modification	`ls -t` *dirname*

I/O Redirection

The standard input/output/error of a command, normally associated with the terminal, may be redirected by appending one the following to the command line:

open file as standard input	`<`*filename*
open file as standard output	`>`*filename*
open file as standard output and standard error	`>&`*filename*
append standard output to file	`>>`*filename*
append standard output and standard error to file	`>>&`*filename*
pipe standard output of command1 to standard input of command2	*cmd1* | *cmd2*

Editing

create/edit file - jove editor	`jove` *filename*
create/edit file - visual editor	`vi` *filename*
create/edit file - emacs editor	`emacs` *filename*
create/edit file - line editor	`ex` *filename*

Printing

print text file on screen	`more` *filename*
print text file on line printer	`lpr` *filename*
print text file on laser printer	`lw` *filename*
print tex document on laser printer	`lw -d` *filename*
print troff document on laser printer	`lwtroff` *filename*

Formatting Documents

format a tex document	`tex filename`
format a latex document	`latex filename`
format and print a troff document	`lwtroff filename`
format a nroff document	`nroff filename`

TeX and laTeX files must have **.tex** as a filename extension.
TeX and laTeX produce files with **.dvi** as a filename extension.

Electronic Mail

read mail	`pine`
send mail to some **address**	`pine` *address*
mail a file to some **address**	`mail` *address* `<`*file*

News

read/post news	`tin`
read news	`rn`
post news	`Pnews`

Languages and Compilers

compile C lanuage source file	`cc` *filename*
compile Fortarn lanuage source file	`f77` *filename*
compile Pascal lanuage source file	`pc` *filename*
run Common Lisp interpreter	`cl`
Awk pattern scanning and processing language	`awk -f` *programfile*
Splus statistical programming language	`Splus`

C, Fortran, and Pascal source files must have the extensions **.c**, **.f**, and **.p** respectively.

Commands

calulator	`bc`
monthly calendar	`cal` *month year*
yearly calendar	`cal` *year*
current date and time	`date`
show differences between two files	`diff` *file1 file2*
display information about a user	`finger` *username*
file transfers to/from a remote host	`ftp` *hostname*
find lines matching a specific **string**	`grep` *string file(s)*
find lines not matching a specific **string**	`grep -v` *string file(s)*
show the first num lines of filename	`head -`*num filename*
view online manual pages	`man` *command*
login to a remote unix host	`rlogin` *hostname*
execute a command on a remote unix host	`rsh` *host command*
spelling checker	`spell` *filename*
show the last num lines of filename	`tail -`*num filename*
talk to another user	`talk` *username*
connect to a remote host	`telnet` *hostname*
display information on the top CPU processes	`top`
show how long the system has been up	`uptime`
display number of lines, words, and character in a file	`wc` *filename*
show who is on the system	`who`

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September 1994 v1.1

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