

UNIX

Reference Card Computing and Information Technology

Job and Process Control

Run job <i>j</i> in the background	<i>j</i> &
List jobs	<i>jobs</i>
Connect to job number <i>n</i>	% <i>n</i>
List all processes for <i>user</i>	<i>/bin/ps -u user</i>
Kill process with id <i>pid</i>	<i>kill -9 pid</i>
Kill job with number <i>n</i>	<i>kill -9 %n</i>

I/O Redirection

Standard output	> or >!
Append to standard output	>> or >>!
Standard input	<
Standard error and output	>&
Standard error separately	< <i>command</i> > <i>output</i> >& <i>errorfile</i>

C Shell History

Create history list of <i>n</i> items	<i>set history=n</i>
See history list	<i>history</i>
Repeat last command	!!
Display last command	!!:p
Execute previous command that starts with <i>str</i>	! <i>str</i>
Command line <i>n</i>	! <i>n</i>
First argument of last command	!^
Last argument of last command	!\$
All arguments of last command	!*
Replace <i>old</i> with <i>new</i> in last command	^ <i>old</i> ^ <i>new</i> ^

C Shell Customization

Create alias	<i>alias</i>
+Set environment variable	<i>setenv</i>
+Set shell variable	<i>set</i>

Programming Language Compilers

+*Ada	<i>ada</i>
Allegro Common Lisp	<i>acl</i>
* Ansi C	<i>acc</i>
Assembler	<i>as</i>
+C++	<i>CC</i>
+FORTRAN	<i>f77</i>
+Fortran 90	<i>f90</i>
GNUC	<i>gcc</i>
GNUC++	<i>g++</i>
*Quintus Prolog	<i>prolog</i>

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+ Additional CIT documents available.

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Reference cards summarize commands for a specific application.
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Basic Commands

Log out of system	<code>logout</code>
Exit current shell	<code>^D</code> or <code>exit</code>

Online Documentation

See online manual page	<code>man command</code>
Search for a manual page	<code>man -k keyword</code>

Files

List filenames	<code>ls</code>
hidden files	<code>ls -a</code>
file permissions	<code>ls -l</code>
group ownership	<code>ls -g</code>
Copy file	<code>cp old new</code>
Copy file to <i>dirname</i>	<code>cp file dirname</code>
Rename (move) file	<code>mv old new</code>
Remove (delete) file	<code>rm file</code>
Append <i>file1</i> to <i>file2</i>	<code>cat file1 >> file2</code>
Home directory	<code>~</code>
Home directory of <i>user</i>	<code>~user</code>
Change file permissions	<code>chmod (ugo+-rwx) file</code>
Wild cards	
single character	<code>?</code>
multiple characters	<code>*</code>
range (a, b are single chars)	<code>[a-b]</code>

File Editors

+emacs	<code>emacs file</code>
+vi	<code>vi file</code>
+pico	<code>pico file</code>

Using less

View file	<code>less file</code>
next line	<code><Return></code>
next page	<code><Space></code>
search for pattern	<code>/pattern</code>
next occurrence	<code>n</code>
next file	<code>:n</code>
help	<code>:h</code>
quit	<code>:q</code>

Directories

Make directory	<code>mkdir dirname</code>
Change directory	<code>cd dirname</code>
Remove directory	<code>rmdir dirname</code>
See current directory name	<code>pwd</code>
Current directory	<code>.</code>
Parent of current directory	<code>..</code>
Root of file system	<code>/</code>

Printing

+Print <i>file</i> to default printer (Bell Hall)	<code>lpr file</code>
+Print <i>file</i> to another site	<code>lpr -Pprinter file</code>
+View <i>printer</i> queue	<code>lpq -Pprinter</code>
+Remove job number <i>jn</i>	<code>lprm jn</code>
+View job turnaround	<code>prstat</code>

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