## CS1020 – An Introduction to the Sunfire Programming Environment

( <a href="http://www.comp.nus.edu.sg/~cs1101x/3\_ca/labs/lab0/unix\_intro.html">http://www.comp.nus.edu.sg/~cs1101x/3\_ca/labs/lab0/unix\_intro.html</a>)

Host name: sunfire-r.comp.nus.edu.sg

Command		Note	Example
date	Query system's date		date Monday, August 21, 2017 08:12:54 PM SGT
echo	Simply "prints" whatever parameters you have typed after the echo command	A single-worded instruction to be followed by a number of parameters, each separated by one or more spaces	echo "Hello there"  Hello there echo Hello there echo Hello there Hello there The two words "Hello" and "there" were treated as 2 parameters, it doesn't matter how many spaces separates them. echo "Hello\nthere"
			Special character " $\n$ " is a newline character to indicate that whatever output that follows should begin on a new line.
	Create a simple test data file	Use ">" character	echo "The quick brown fox jumps over the lazy dog." > fox. dat  The string is redirected by ">" into a named file "fox. dat"
cat	Display the entire contents of a file (usually a text file) to the shell window		cat fox. dat  The quick brown fox jumps over the lazy dog.  Printing (to screen) the contents of a text file
echo >>	Appends more lines to an existing file	Use a double- redirect operator	echo "While it sleeps." >> fox.dat echo "While it sleeps." >> fox.dat cat fox.dat The quick brown fox jumps over the lazy dog. While it sleeps. While it sleeps.
<	Redirect input from a file	Use "<" character	
history	Gives list of history of commands		

-		T	
ctrl-c	Sends program the		
	"interrupt" signal		
ctrl-\	Sends the program a		
	stronger signal that it		
	should really die		
ps -fu	Queries the process		
e0104958	number (PID) and kill it		
kill			
<pre><pre>process</pre></pre>			
num>			
	C 1 1		
ctrl-z	Suspends the currently		
	running program in the		
	shell		
jobs	Tells you what		
	processes are stopped		
fg	Resumes the process		
fg <job num=""></job>	For more than one		
	process stopped		
bg	To put the process in		
	the background		
	T., .	T	
ls	Lists directory contents		1s <mark>-1</mark>
			drwx 2 e0104958 nusstu 4096 Aug 15
			13:20 doc
			Lists contents in "long" format – file type,
			permissions, ownership information, and date and
			time the file was last modified
			1s -al
			Lists "hidden" files – files beginning with a "."
	Online help facility in	To find more, type	man 1s
man	the form of pages from	the name of the	
	the system	utility as the	User Commands
	documentation – manual	argument	1s(1)
	pages	ai guilleile	
	ha903		NAME
			ls - list contents of directory
			If the man page spans more than one screen space,
			the display is automatically paginated – press "f"
			(or "space") to scroll and "b" to scroll back
1		Ť	
			man -k <keyword>  </keyword>
			man -k <keyword> When the exact command name is not know, the</keyword>
			man -k <keyword> When the exact command name is not know, the man pages can be queried by keyword</keyword>

chmod	"Change mode" – sets	u	Yourself	chmod <mark>a+r</mark> fox.dat
	the access permissions	g	Group of	<del>-</del>
			users	
		О	Other	
			users	
		a	Everybody	
		r	Read –	
			people	
			with	
			access can	
			read the	
			name of	
			the files in	
			the	
			directory, i.e. able to	
			1s the	
		***	directory Write –	
		W	people	
			with	
			access can	
			change	
			the	
			directory,	
			i.e. can	
			create and	
			remove	
			files in it	
		О	Execute –	
			people	
			with	Arranges for everyone ( $\rm "a"$ ) to also be able to
			access can	read ( " $+r$ " ) the file
			cd to it,	chmod <mark>go-r</mark> fox.dat
			i.e. make	Withdraws the read access from all "others" but
			this	yourself
			directory their	chmod go-rwx
			current	Clinica 80 1 m
			directory	Removes all permissions from group and others
			1 5565. /	on your home directory