Information Technology **Rice University** June 8, 1998 Document No. UNIX 4.01 vi Reference Card

ENTERING vi

vi (visual) is a display-oriented text editor based on an underlying line editor ex. When using vi, changes you make to the file are reflected in what you see on your terminal screen. The position of the cursor on the screen indicates the position within the file. Many commands may be preceded by an integer, n, indicating that the command is to be repeated n times at the current cursor position. Typing the ESC (escape) character takes you out of input mode and into command mode. A partial command may be cancelled by typing ESC. To enter the vi editor type:

vi -options filename

OPTIONS

-1	lisp mode: indents appropriately for lisp code, the () { } [[and]] commands in vi are modified to have meaning for lisp
-r filename	recover filename after an editor or system crash. If file is not specified a list of all saved files will be printed.
-R	read only mode
+/string	search for string
vi filenamelist :n :n filenamelist :e filename :e#	edit next file in filenamelist specify new filenamelist return to original file
:e! filename :r filename CONTROL-g	edit filename, discard previous buffer place copy of filename below the current line display the current file name and line number of current line

Modes of Operation

- Command normal and initial mode: other modes return to command mode upon completion. ESC (escape) is used to cancel partial command.
- To enter the Input mode, type one of the following: Input a, i, A, I, o O, c, C, s, S, or R. Text may then be entered. Input mode is terminated with ESC character.

UNDOING/CANCELING COMMANDS

ESC	cancel unexecuted vi command
Control-C	stop in-progress command
u U	counteract last command that changed the buffer counteract changes to current line

REPEATING A COMMAND

repeat the last command that changed the buffer

SAVING WORK/EDITING

write file under original name
write file under original name, exit vi
exit vi, no changes are saved
write the file under <i>filename</i>
write the file under <i>filename</i> , overwrite existing
filename
write lines x through y under <i>filename</i>
filename write lines x through y under <i>filename</i> ,
overwrite existing filename

DISPLAYING LINE NUMBERS

CONTROL-g display line number of current line :set number display all line numbers, to the left of each line :set nonumber remove all displayed line numbers

INSERTING TEXT

Inserting Text

insert before the current character
insert after the current character
insert at end of current line
insert at beginning of current line
insert below current line (opens new line)
insert above current line (opens new line)
end text insertion

Replacing Text

- replace the current character, no ESC necessary r
- replace the current character s
- replace the current word cw
- S replace the current line
- С replace the current cursor position to end of line
- R replace from current cursor position to end of line, does not change characters typed over
- ESC end text insertion

Erasing During Insertion

Control-h erase character, move left or **DELETE Control-w** erase word, move left **Control-u** erase the current line

Setting Margins

set wrapmargin=*x* set right margin to *x*, automatic word wrap

Setting Automatic Indentation

:set autoindent	set automatic indentation
:set noai	turn off automatic indentation
Control-d	move left one tabstop
Control-t	move right one tabstop

JOINING LINES

J	join the current line and the line below it
# J	join # lines, starting with the current line

DELETING TEXT

x	delete the current character
# x	delete # characters, starting with current character
dw	delete current word
# dw	delete # words, starting with the current word
dd	delete the current line
# dd	delete # lines, starting with the current line
D	delete from current cursor position to end of line
: <i>x</i> , y d	delete lines x through y
d' /	delete from current line to line with marker /

COPYING TEXT

Making a Copy

- у yank current character
- yank # characters, starting with current character # y
- yank current word yw
- # **vw** yank # words, starting with current word
- yank current line уу
- yank # lines, starting with current line # yy
- :x,y y yank lines x through y
- yank from current line to line with marker / y'/

RETRIEVING TEXT

- **p** place most recently deleted or yanked character(s) or word(s) after the current character, place line(s) below current line
- **P** place most recently deleted or yanked character(s) or word(s) before the current character, place line(s) above the current line

SHELL COMMANDS

:!command	execute one shell command	
:sh	run subshell. Type exit and press RETURN to return	
	to vi.	
:r!command	insert output of shell command below current line	

MOVING AROUND IN A FILE

Moving by characters

h or backspace	move left one character
j	move down one line
k	move up one line
l or space bar	move right one character
Moving by words	
W	move right one word or group of
	punctuation marks
b	move left one word or group of

10	
	punctuation marks
W	move right one word
В	move left one word
Е	move to the end of a word

Moving by Lines •

0	move to the beginning of current lune
\$	move to the end of current line
RETURN	move to first non-white space character
	at beginning of next line
-(minus)	move to first non-whitespace character
	at beginning of previous line
н	move to top line on screen
L	move to bottom line on screen
Μ	move to middle line on screen
G	move to end of file
x G	moves to line number x
/	move to first character in line marked
	with /
	move to previous location (counteracts

G or simple search)

SCROLLING

Control-e	scrollup one line
00111010	1
Control-y	scroll down one line
Control-f	scroll forward one screen
Control-b	scroll backward one screen
Control-d	scroll forward half screen
Control-u	scroll backward half screen
z <return></return>	redraw screen, current line at top of
	screen
Z-	redraw screen, current line at bottom of
	screen
Ζ.	redraw screen, current line at center of
	screen.

TEXT BUFFERS

Automatic Numbered Buffers (1-9)

	c Numbered Bullers (1-9)
"#p p	lace text from buffer # below current line
"#P pl	lace text from buffer # above current line
Named B	uffers (a-z)
"b comma	<i>and</i> place text deleted or yanks with command into buffer
b	
"b р	place text from buffer b below current line
"bP	place text from buffer b above current line
	Ī
MOVING	BY LINE NUMBER
WOVING	F DI LINE NUMBER
:x mz	move line x below line z
:x, y mz	move lines x through y below z
, j	
CODVIN	
COPTIN	G BY LINE NUMBER
:xt z	copy line <i>x</i> below line z
$x, y \mathbf{m}z$	move lines x through y below line z
• <i>x</i> , <i>y</i> m	move mies w mough y below mie z
Recoverin	ng a File
vi -r filend	<i>ame</i> recover file lost during system crash or line
	disconnection
vi -r	list all recoverable files
SEARCH	ES
Searching	
fc	move forward to find character c on current
	line, cursor rests on c
tc	move forward to find character c on current
	line, cursor rests on character before c
Fc	move backwards to find character on current
	line, cursor rests on c
Тc	move backwards to find character c on current
	line, cursor rests on character after c
;	repeat last f, F, t, T
,	inverse of last f, F, t, T
Simple Se	arch
/string	search forward in the file for string

:set nowrapscanset no wrapping during a search		
:set wrapscan set wrapping during a search		
Ν	subsequent search in the opposite direction	
n	subsequent search in the same direction	
?string	search backward in the file for string	
/string	search forward in the file for string	

Global Search

:g/string/command command affects lines containing string :v/string/command command affects lines not containing string

SEARCHES (CONTINUED)

Substitution (Search and Replace) :x,ys/oldstring/newstring/flags

	0 00 0
х, у	line numbers in which the substitution is to occur. Give one line number, or two separated by a
	comma, which indicate a range of lines. Absence
	of line numbers indicates current line substitution
	command. Only the first occurrence of the string
	on the selected line(s) is replaces unless the g
	flag, described below, is used.
s	substitution command. Only the first occurrence of
	the string on the selected line(s) is replaced unless
	the g flag, described below, is used.
/oldstring	string to replace. If you do not specify an
	oldstring, vi searches for the oldstring specified in
	the last s command or search (if there was one).
/newstring	replacement string
/flags	optional, to specify the type of search:
	c wait for confirmation before substituting.
	Type y or n and press RETURN.
	g replace all occurrences of the string in
	specified lines
Special Cha	aracters in Searches
Character	
[cccc]	match any specified letter or number
[^cccc]	match all letters or numbers except those specified
[c1-c2]	match all letters or numbers in specified range
Character a	at Specified Locations
\ <cc< td=""><td>match words that begin with cc</td></cc<>	match words that begin with cc
\>cc	match words that end in cc
^	match beginning of lines
^cccc	match lines that begin with cc
\$	match end of lines

Wildcard and Multiplier Characters

cccc\$

•	match any one character
*	match zero or more occurrences of the preceding
	character
.*	match any number of characters

match lines that end with cccc