

UNIX / LINUX - C SHELL OPERATORS

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We will now list down all the operators available in C Shell. Here most of the operators are very similar to what we have in C Programming language.

Operators are listed in the order of decreasing precedence –

Arithmetic and Logical Operators

The following table lists out a few Arithmetic and Logical Operators –

Sr.No.	Operator & Description
1	() Change precedence
2	~ 1's complement
3	! Logical negation
4	* Multiply
5	/ Divide
6	% Modulo
7	+ Add
8	-

	Subtract
9	<< Left shift
10	>> Right shift
11	== String comparison for equality
12	!= String comparison for non equality
13	=~ Pattern matching
14	& Bitwise "and"
15	^ Bitwise "exclusive or"
16	 Bitwise "inclusive or"
17	&& Logical "and"
18	 Logical "or"
19	++

	Increment
20	-- Decrement
21	= Assignment
22	*= Multiply left side by right side and update left side
23	/= Divide left side by right side and update left side
24	&plus;= Add left side to right side and update left side
25	-= Subtract left side from right side and update left side
26	^= "Exclusive or" left side to right side and update left side
27	%= Divide left by right side and update left side with remainder

File Test Operators

The following operators test various properties associated with a Unix file.

Sr.No.	Operator & Description
1	-r file Checks if file is readable; if yes, then the condition becomes true.

2	-w file Checks if file is writable; if yes, then the condition becomes true.
3	-x file Checks if file is executable; if yes, then the condition becomes true.
4	-f file Checks if file is an ordinary file as opposed to a directory or special file; if yes, then the condition becomes true.
5	-z file Checks if file has size greater than 0; if yes, then the condition becomes true.
6	-d file Checks if file is a directory; if yes, then the condition becomes true.
7	-e file Checks if file exists; is true even if file is a directory but exists.
8	-o file Checks if user owns the file; returns true if the user is the owner of the file.