

NAME

expr – evaluate expressions

SYNOPSIS

expr *EXPRESSION*

expr *OPTION*

DESCRIPTION

--help display this help and exit

--version

output version information and exit

Print the value of *EXPRESSION* to standard output. A blank line below separates increasing precedence groups. *EXPRESSION* may be:

ARG1 | *ARG2*

ARG1 if it is neither null nor 0, otherwise *ARG2*

ARG1 & *ARG2*

ARG1 if neither argument is null or 0, otherwise 0

ARG1 < *ARG2*

ARG1 is less than *ARG2*

ARG1 <= *ARG2*

ARG1 is less than or equal to *ARG2*

ARG1 = *ARG2*

ARG1 is equal to *ARG2*

ARG1 != *ARG2*

ARG1 is unequal to *ARG2*

ARG1 >= *ARG2*

ARG1 is greater than or equal to *ARG2*

ARG1 > *ARG2*

ARG1 is greater than *ARG2*

ARG1 + *ARG2*

arithmetic sum of *ARG1* and *ARG2*

ARG1 – *ARG2*

arithmetic difference of *ARG1* and *ARG2*

ARG1 * *ARG2*

arithmetic product of *ARG1* and *ARG2*

ARG1 / *ARG2*

arithmetic quotient of *ARG1* divided by *ARG2*

ARG1 % *ARG2*

arithmetic remainder of *ARG1* divided by *ARG2*

STRING : REGEXP

anchored pattern match of REGEXP in *STRING*

match *STRING* REGEXP

same as *STRING* : REGEXP

substr *STRING* POS LENGTH

substring of *STRING*, POS counted from 1

index *STRING* CHARS

index in *STRING* where any CHARS is found, or 0

length STRING
length of STRING

+ TOKEN
interpret TOKEN as a string, even if it is a
keyword like 'match' or an operator like '/'

(EXPRESSION)
value of EXPRESSION

Beware that many operators need to be escaped or quoted for shells. Comparisons are arithmetic if both ARGs are numbers, else lexicographical. Pattern matches return the string matched between \ (and \) or null; if \ (and \) are not used, they return the number of characters matched or 0.

Exit status is 0 if EXPRESSION is neither null nor 0, 1 if EXPRESSION is null or 0, 2 if EXPRESSION is syntactically invalid, and 3 if an error occurred.

AUTHOR

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REPORTING BUGS

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>

Report expr translation bugs to <<https://translationproject.org/team/>>

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SEE ALSO

Full documentation at: <<https://www.gnu.org/software/coreutils/expr>>
or available locally via: info '(coreutils) expr invocation'