NAME

find - find files

SYNOPSIS

find pathname expression

DESCRIPTION

Find recursively descends the directory hierarchy from *pathname* seeking files that match a boolean *expression* written in the primaries given below. In the descriptions, the argument n is used as a decimal integer where +n means more than n, -n means less than n and n means exactly n.

- -ignore pathname True unless file is hierarchically below the given pathname. For maximum efficiency all *ignore* primaries should appear first in the boolean expression. In this case the files below the pathname will not be accessed.
- -name filename True if the filename argument matches the current file name. Normal Shell argument syntax may be used if escaped (watch out for [, ?, and *.
- -perm onum True if the file permission flags exactly match the octal number onum (see chmod(1)). If onum is prefixed by a minus sign, more flag bits (017777, see stat(2)) become significant and the flags will be compared: (flags&onum) == onum.
- -i n True if the file has inode n.
- -type c True if the file is c, where c is b, c, d, or f for block special file, character special file, directory or ; lain file.
- -links n True if the file has n links.
- -user uname True if the file belongs to the user uname. An integer may be supplied instead of uname.
- -group gname True if the file belongs to the group gname. An integer may be supplied instead of gname.
- -size n True if the file is n blocks long (512 bytes per block).
- -atime *n* True if the file has been accessed in *n* days.

- mtime n True if the file has been modified in n days.

-exec command True if the executed command returns exit status zero (most commands do). The end of the command is punctuated by an escaped semicolon. A command argument '{}' is replaced by the current pathname.

-ok command Like -exec except that the generated command line is printed with a question mark first, and is executed only if the user responds y.

- print Always true; causes the current pathname to be printed.

The primaries may be combined with the operators (ordered by precedence):

	prefix	not	

-a infix and second operand evaluated only if first is true

-o infix or, second operand evaluated only if first is false

(expression) parentheses for grouping. (Must be escaped.)

To remove files named 'a.out' and '*.o' not accessed for a week:

find / '(' = name a.out = o = name '*.o' ')' = a = atime +7 = a = exec rm {} ';'

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FILES

/etc/group /etc/passwd

SEE ALSO

sh(1), fs(5)

BUGS

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There is no way to check device type.