find pathname expression

FIND(I)

NAME

find – find files

DESCRIPTION

SYNOPSIS

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.

-name filename	True if <i>filename</i> matches the current file name. Normal <i>Shell</i> 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 (I)). If onum is prefixed by a minus sign, more flag bits (017777, see stat (II)) become significant and the flags are compared: $(flags&onum) = = onum$.
-type c	True if the type of the file is c , where c is b , c , d or f for block special file, character special file, directory or plain file.
-links n	True if the file has <i>n</i> links.
-user uname	True if the file belongs to the user uname.
-group gname	True if the file belongs to the group 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 <i>n</i>	True if the file has been modified in n days.
-exec command	True if the executed command returns exit status zero (most commands do). of The command is ended by an es- caped 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 these operators (ordered by precedence):	
!	prefix not
- a	infix and, second operand evaluated only if first is true
-0	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:

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

FILES

/etc/passwd

SEE ALSO

sh (I), if (I), file system (V)

BUGS

There is no way to check device type. Syntax should be reconciled with if.