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.

-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(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 \mathbf{b} , \mathbf{c} , \mathbf{d} or \mathbf{f} for block special file,

character special file, directory or plain file.

-links n True if the file has n links.

–user uname True if the file belongs to the user *uname*.

-group gname As it is for **-user** so shall it be for **-group** (someday). **-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 com-

mand argument '{}' is replaced by the current pathname.

-ok command Like -exec except that the generated command line is printed with a ques-

tion 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
 -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 {} ";"

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*.