PA-1C600-01 Section 3 (I) Issue 1, 1 October 1977 AT&TCo SPCS

FIND(I)

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 *filename* 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 b, c, d or 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 True if the file belongs to the group gname.

-size n True if the file is n blocks long (512 bytes per block).

True if the file has been accessed in n days.

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 escaped semicolon. A command argument '{}' is replaced by

the current pathname.

-ok command Like -exec except that the generated command line is print-

ed 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

-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:

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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.