Bell Telephone Laboratories, Incorporated   - 1 -   PA-1C600-01
PROGRAM APPLICATION INSTRUCTION   Section 17 (f)
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AT&TCo SPCS

PCREAT(f)   **PCREAT(f)**

NAME

pcreat — creat new process

SYNOPSIS

(pcreat = 65.)
sys pcreat; name; flag

pid = pcreat(name, flag)
char *name;
int flag;

DESCRIPTION

Pcreat sends off a message to the process manager to create a new process from the description given in the file *name*. *Name* is the address of a string of ASCII characters representing a path name, terminated by a null character. The file maust be an executable file with the first word being 0401. The word *flag* is sent as an argument in the message to the process manager. A user segment which has been created by using *getseg* (see *getseg(f)*) with child permissions equal to 07 may be shared with the newly created process. This is useful for setting up a share-able segment between a user process and a kernel process.

The process number of the new process is returned in r0. The process may be "waited" for using the standard "sys wait" system entry.

This system entry is used to set up a new environment other than the UNIX time-sharing environment. The file containing the initial process image is created using ldp (see section E).

SEE ALSO

fork(II), wait(II), ldp(e).

DIAGNOSTICS

The error bit (c-bit) is set if the file does not exist, the file is not in the correct format or a new process could not be created because of lack of process space. From C, a −1 value is returned on an error.