

PROCESS MANAGER (c)

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INTRODUCTION TO THE PROCESS MANAGER MESSAGES

The message types accepted by the process manager are:

P_CREAT	1	Create a process from a pathname
P_INIT	4	Initialize the process manager (sent when the system is first booted)
P_WAIT	5	Sent to the process manager when a process it has created dies
MSTERM	9	Produce a core dump of a process

In the following descriptions, the arguments refer to the words which make up the body of the message. The structure of a message to the process manager is:

```
struct {  
    struct msghdr hdr;  
    int pm_arg[];  
}
```

Error codes are always returned in *msustat*. The possible errors are:

MSTYPERR	1	Message type is not recognized by the process manager
MSNOPRC	2	Process file does not exist or does not have the correct magic number.
MSNOFILE	3	A public library file does not exist.
MSNOSLOT	4	All the process slots in the system are in use
MSNOMEM	5	A kernel process could not be loaded because of insufficient memory
MSNOSWAP	6	All the system segments and/or swap space is allocated
MSREADERR	7	Process manager is unable to read the process file (the sender does not have read permissions on the process file)
MSTOOBIG	8	Segment too big for virtual address space available
MSNOSHARE	9	Segment not shareable
MSNOINTR	10	A kernel process has attempted to connect to a nonexistent interrupt or an interrupt which is attached to another process.
MSVERSIONERR	11	The version number of a public library or the system library
MSNOPCB	12	Cant create PCB segment
MSFORKERR	13	Error in FORK message to file manager

The P_INIT and P_WAIT messages are internal messages which are necessary for the process manager to maintain its internal tables.

SEE ALSO

(P-Mgr)precreat(c), (P-Mgr)pinit(c), (P-Mgr)pdump(c), (P-Mgr)pwait(c)