NAME

sys/ipc.h - XSI interprocess communication access structure

SYNOPSIS

[XSI] ⌦ #include <sys/ipc.h> ⌫

DESCRIPTION

The *<sys/ipc.h>* header is used by three mechanisms for XSI interprocess communication (IPC): messages, semaphores, and shared memory. All use a common structure type, **ipc_perm**, to pass information used in determining permission to perform an IPC operation.

The *<sys/ipc.h>* header shall define the **ipc_perm** structure, which shall include the following members:

uid_t	uid	Owner's user ID.
gid_t	gid	Owner's group ID.
uid_t	cuid	Creator's user ID.
gid_t	cgid	Creator's group ID.
mode_t	mode	Read/write permission.

The *<sys/ipc.h>* header shall define the **uid_t**, **gid_t**, **mode_t**, and **key_t** types as described in *<sys/types.h>*.

The *<sys/ipc.h>* header shall define the following symbolic constants.

Mode bits:

IPC_CREAT
: Create entry if key does not exist.

IPC_EXCL
: Fail if key exists.

IPC_NOWAIT
: Error if request must wait.

Keys:

IPC_PRIVATE
: Private key.

Control commands:

IPC_RMID
: Remove identifier.

IPC_SET
: Set options.

IPC_STAT
: Get options.

The following shall be declared as a function and may also be defined as a macro. A function prototype shall be provided.

```
key_t  ftok(const char *, int);
```

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

<sys/types.h>

XSH *ftok*

CHANGE HISTORY

First released in Issue 2. Derived from System V Release 2.0.

Issue 7

This reference page is clarified with respect to macros and symbolic constants.

End of informative text.

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