

Op:ipc.h

sys/ipc.h - XSI interprocess communication access structure

```
#include <sys/ipc.h>
```

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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 `ipc_perm` structure shall contain the following members:

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

The `uid_t`, `gid_t`, `mode_t`, and `key_t` types shall be defined as described in `<sys/types.h>` .

Definitions shall be provided for the following 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.

RELATED

<sys/types.h> , the System Interfaces volume of IEEE Std 1003.1-2001, **ftok**
()

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