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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sys\_ipc.h.0p' command***

***\$ man sys\_ipc.h.0p***

sys\_ipc.h(0P) POSIX Programmer's Manual sys\_ipc.h(0P)

### PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

### NAME

sys/ipc.h ? XSI interprocess communication access structure

### SYNOPSIS

```
#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>

The System Interfaces volume of POSIX.1-2017, ftok()

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