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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'ipc_namespaces.7' command

$ man ipc_namespaces.7

IPC_NAMESPACES(7) Linux Programmer's Manual IPC_NAMESPACES(7)

NAME

ipc_namespaces - overview of Linux IPC namespaces

DESCRIPTION

IPC namespaces isolate certain IPC resources, namely, System V IPC ob? jects (see sysvipc(7)) and (since Linux 2.6.30) POSIX message queues (see mq_overview(7)). The common characteristic of these IPC mecha? nisms is that IPC objects are identified by mechanisms other than filesystem pathnames.

Each IPC namespace has its own set of System V IPC identifiers and its own POSIX message queue filesystem. Objects created in an IPC name? space are visible to all other processes that are members of that name? space, but are not visible to processes in other IPC namespaces.

The following /proc interfaces are distinct in each IPC namespace:

* The POSIX message queue interfaces in /proc/sys/fs/mqueue.
* The System V IPC interfaces in /proc/sys/kernel, namely: msgmax, ms? gmnb, msgmni, sem, shmall, shmmax, shmmni, and shm_rmid_forced.
* The System V IPC interfaces in /proc/sysvipc.

When an IPC namespace is destroyed (i.e., when the last process that is a member of the namespace terminates), all IPC objects in the namespace are automatically destroyed.

Use of IPC namespaces requires a kernel that is configured with the CONFIG_IPC_NS option.

SEE ALSO

nsenter(1), unshare(1), clone(2), setns(2), unshare(2), mq_overview(7), namespaces(7), sysvipc(7)

COLOPHON

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