
Subject: [PATCH -mm] ipc namespace : remove CONFIG_IPC_NS

Posted by [Cedric Le Goater](#) on Tue, 16 Jan 2007 14:28:31 GMT

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CONFIG_IPC_NS has very little value as it only deactivates the unshare of the ipc namespace and does not improve performance.

Signed-off-by: Cedric Le Goater <clg@fr.ibm.com>

include/linux/ipc.h | 11 -----
init/Kconfig | 9 -----
ipc/msg.c | 4 +---
ipc/sem.c | 4 +---
ipc/shm.c | 4 +---
ipc/util.c | 4 +---
ipc/util.h | 8 ++-----
kernel/fork.c | 10 -----
8 files changed, 6 insertions(+), 48 deletions(-)

Index: 2.6.20-rc4-mm1/include/linux/ipc.h

=====

--- 2.6.20-rc4-mm1.orig/include/linux/ipc.h

+++ 2.6.20-rc4-mm1/include/linux/ipc.h

@@ -96,31 +96,20 @@ extern struct ipc_namespace init_ipc_ns;

#define INIT_IPC_NS(ns)

#endif

-#ifndef CONFIG_IPC_NS

extern void free_ipc_ns(struct kref *kref);

extern int copy_ipcs(unsigned long flags, struct task_struct *tsk);

extern int unshare_ipcs(unsigned long flags, struct ipc_namespace **ns);

-#else

-static inline int copy_ipcs(unsigned long flags, struct task_struct *tsk)

-{

- return 0;

-}

-#endif

static inline struct ipc_namespace *get_ipc_ns(struct ipc_namespace *ns)

{

-#ifndef CONFIG_IPC_NS

if (ns)

kref_get(&ns->kref);

-#endif

return ns;

}

static inline void put_ipc_ns(struct ipc_namespace *ns)

```

{
-#ifdef CONFIG_IPC_NS
    kref_put(&ns->kref, free_ipc_ns);
-#endif
}

#endif /* __KERNEL__ */
Index: 2.6.20-rc4-mm1/init/Kconfig
=====
--- 2.6.20-rc4-mm1.orig/init/Kconfig
+++ 2.6.20-rc4-mm1/init/Kconfig
@@ -138,15 +138,6 @@ config SYSVIPC
    section 6.4 of the Linux Programmer's Guide, available from
    <http://www.tldp.org/guides.html>.

-config IPC_NS
- bool "IPC Namespaces"
- depends on SYSVIPC
- default n
- help
-   Support ipc namespaces. This allows containers, i.e. virtual
-   environments, to use ipc namespaces to provide different ipc
-   objects for different servers. If unsure, say N.
-
config POSIX_QUEUE
 bool "POSIX Message Queues"
 depends on NET && EXPERIMENTAL
Index: 2.6.20-rc4-mm1/ipc/msg.c
=====
--- 2.6.20-rc4-mm1.orig/ipc/msg.c
+++ 2.6.20-rc4-mm1/ipc/msg.c
@@ -87,7 +87,7 @@ static int newque (struct ipc_namespace
 static int sysvipc_msg_proc_show(struct seq_file *s, void *it);
-#endif

-static void __ipc_init __msg_init_ns(struct ipc_namespace *ns, struct ipc_ids *ids)
+static void __msg_init_ns(struct ipc_namespace *ns, struct ipc_ids *ids)
{
    ns->ids[IPC_MSG_IDS] = ids;
    ns->msg_ctlmax = MSGMAX;
@@ -96,7 +96,6 @@ static void __ipc_init __msg_init_ns(str
    ipc_init_ids(ids, ns->msg_ctlmni);
}

-#ifdef CONFIG_IPC_NS
int msg_init_ns(struct ipc_namespace *ns)
{
    struct ipc_ids *ids;

```

```

@@ -128,7 +127,6 @@ void msg_exit_ns(struct ipc_namespace *n
    kfree(ns->ids[IPC_MSG_IDS]);
    ns->ids[IPC_MSG_IDS] = NULL;
}
-#endif

void __init msg_init(void)
{
Index: 2.6.20-rc4-mm1/ipc/sem.c
=====
--- 2.6.20-rc4-mm1.orig/ipc/sem.c
+++ 2.6.20-rc4-mm1/ipc/sem.c
@@ -122,7 +122,7 @@ static int sysvipc_sem_proc_show(struct
#define sc_semopm sem_ctls[2]
#define sc_semmni sem_ctls[3]

-static void __ipc_init __sem_init_ns(struct ipc_namespace *ns, struct ipc_ids *ids)
+static void __sem_init_ns(struct ipc_namespace *ns, struct ipc_ids *ids)
{
    ns->ids[IPC_SEM_IDS] = ids;
    ns->sc_semmni = SEMMSL;
@@ -133,7 +133,6 @@ static void __ipc_init __sem_init_ns(str
    ipc_init_ids(ids, ns->sc_semmni);
}

-#ifndef CONFIG_IPC_NS
int sem_init_ns(struct ipc_namespace *ns)
{
    struct ipc_ids *ids;
@@ -165,7 +164,6 @@ void sem_exit_ns(struct ipc_namespace *n
    kfree(ns->ids[IPC_SEM_IDS]);
    ns->ids[IPC_SEM_IDS] = NULL;
}
-#endif

void __init sem_init (void)
{
Index: 2.6.20-rc4-mm1/ipc/shm.c
=====
--- 2.6.20-rc4-mm1.orig/ipc/shm.c
+++ 2.6.20-rc4-mm1/ipc/shm.c
@@ -67,7 +67,7 @@ static void shm_destroy (struct ipc_name
static int sysvipc_shm_proc_show(struct seq_file *s, void *it);
#endif

-static void __ipc_init __shm_init_ns(struct ipc_namespace *ns, struct ipc_ids *ids)
+static void __shm_init_ns(struct ipc_namespace *ns, struct ipc_ids *ids)
{

```

```

ns->ids[IPC_SHM_IDS] = ids;
ns->shm_ctlmax = SHMMAX;
@@ -88,7 +88,6 @@ static void do_shm_rmid(struct ipc_names
    shm_destroy(ns, shp);
}

```

```

-#ifdef CONFIG_IPC_NS
int shm_init_ns(struct ipc_namespace *ns)
{
    struct ipc_ids *ids;
@@ -120,7 +119,6 @@ void shm_exit_ns(struct ipc_namespace *n
    kfree(ns->ids[IPC_SHM_IDS]);
    ns->ids[IPC_SHM_IDS] = NULL;
}
-#endif

```

```

void __init shm_init (void)
{

```

Index: 2.6.20-rc4-mm1/ipc/util.c

=====

```

--- 2.6.20-rc4-mm1.orig/ipc/util.c
+++ 2.6.20-rc4-mm1/ipc/util.c
@@ -51,7 +51,6 @@ struct ipc_namespace init_ipc_ns = {
    },
};

```

```

-#ifdef CONFIG_IPC_NS
static struct ipc_namespace *clone_ipc_ns(struct ipc_namespace *old_ns)
{
    int err;
@@ -144,7 +143,6 @@ void free_ipc_ns(struct kref *kref)
    shm_exit_ns(ns);
    kfree(ns);
}
-#endif

```

```

/**
 * ipc_init - initialise IPC subsystem
@@ -172,7 +170,7 @@ __initcall(ipc_init);
 * array itself.
 */

```

```

-void __ipc_init ipc_init_ids(struct ipc_ids* ids, int size)
+void ipc_init_ids(struct ipc_ids* ids, int size)
{
    int i;

```

Index: 2.6.20-rc4-mm1/ipc/util.h

```

=====
--- 2.6.20-rc4-mm1.orig/ipc/util.h
+++ 2.6.20-rc4-mm1/ipc/util.h
@@ -41,12 +41,8 @@ struct ipc_ids {
};

struct seq_file;
#ifndef CONFIG_IPC_NS
#define __ipc_init
#else
#define __ipc_init __init
#endif
void __ipc_init ipc_init_ids(struct ipc_ids *ids, int size);
+
+void ipc_init_ids(struct ipc_ids *ids, int size);
#ifdef CONFIG_PROC_FS
void __init ipc_init_proc_interface(const char *path, const char *header,
int ids, int (*show)(struct seq_file *, void *));
Index: 2.6.20-rc4-mm1/kernel/fork.c
=====
--- 2.6.20-rc4-mm1.orig/kernel/fork.c
+++ 2.6.20-rc4-mm1/kernel/fork.c
@@ -1595,16 +1595,6 @@ static int unshare_semundo(unsigned long
return 0;
}

#ifndef CONFIG_IPC_NS
static inline int unshare_ipcs(unsigned long flags, struct ipc_namespace **ns)
-{
- if (flags & CLONE_NEWIPC)
- return -EINVAL;
-
- return 0;
-}
#endif
-
/*
* unshare allows a process to 'unshare' part of the process
* context which was originally shared using clone. copy_*

```

Containers mailing list
Containers@lists.osdl.org
<https://lists.osdl.org/mailman/listinfo/containers>
