Subject: [PATCH -mm] remove CONFIG_UTS_NS and CONFIG_IPC_NS
Posted by Cedric Le Goater on Fri, 08 Jun 2007 11:48:38 GMT
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CONFIG_UTS_NS and CONFIG_IPC_NS have very little value as they only
deactivate the unshare of the uts and ipc namespaces and do not
improve performance.

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---
 include/linux/ipc.h | 11 ++++--------
 include/linux/utsname.h | 13 -------------
 init/Kconfig | 17 -----------------
 ipc/msg.c | 4 +---
 ipc/sem.c | 4 +---
 ipc/shm.c | 4 +---
 ipc/util.c | 11 +----------
 ipc/util.h | 8 ++------
 kernel/Makefile | 4 ++--
 kernel/nsproxy.c | 10 ----------
 kernel/utsname_sysctl.c | 5 +----
 11 files changed, 12 insertions(+), 79 deletions(-)

Index: 2.6.22-rc4-mm2/include/linux/utsname.h
===
--- 2.6.22-rc4-mm2.orig/include/linux/utsname.h
+++ 2.6.22-rc4-mm2/include/linux/utsname.h
@@ -48,7 +48,6 @@ static inline void get_uts_ns(struct uts
  kref_get(&ns->kref);
 }

-#ifdef CONFIG_UTS_NS
 extern struct uts_namespace *copy_utsname(int flags, struct uts_namespace *ns);
 extern void free_uts_ns(struct kref *kref);

@@ -56,18 +55,6 @@ static inline void put_uts_ns(struct uts
 {
  kref_put(&ns->kref, free_uts_ns);
 }
-#else
-static inline struct uts_namespace *copy_utsname(int flags,
-      struct uts_namespace *ns)
-{
- return ns;

```
-}
-
-static inline void put_uts_ns(struct uts_namespace *ns)
-{
-}
-#endif
-
 static inline struct new_utsname *utsname(void)
 {
  return &current->nsproxy->uts_ns->name;
Index: 2.6.22-rc4-mm2/init/Kconfig
===================================================================
--- 2.6.22-rc4-mm2.orig/init/Kconfig
+++ 2.6.22-rc4-mm2/init/Kconfig
@@ -142,15 +142,6 @@ 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 SYSVIPC_SYSCTL
  bool
  depends on SYSVIPC
@@ -240,14 +231,6 @@ config TASK_IO_ACCOUNTING

    Say N if unsure.

-config UTS_NS
- bool "UTS Namespaces"
- default n
- help
-   Support uts namespaces.  This allows containers, i.e.
-   vservers, to use uts namespaces to provide different
-   uts info for different servers.  If unsure, say N.
-
 config AUDIT
  bool "Auditing support"
  depends on NET
Index: 2.6.22-rc4-mm2/kernel/Makefile
===================================================================
--- 2.6.22-rc4-mm2.orig/kernel/Makefile
```

```
+++ 2.6.22-rc4-mm2/kernel/Makefile
@@ -8,7 +8,8 @@ obj-y     = sched.o fork.o exec_domain.o
      signal.o sys.o kmod.o workqueue.o pid.o \
      rcupdate.o extable.o params.o posix-timers.o \
      kthread.o wait.o kfifo.o sys_ni.o posix-cpu-timers.o mutex.o \
-     hrtimer.o rwsem.o latency.o nsproxy.o srcu.o die_notifier.o
+     hrtimer.o rwsem.o latency.o nsproxy.o srcu.o die_notifier.o \
+     utsname.o

 obj-$(CONFIG_STACKTRACE) += stacktrace.o
 obj-y += time/
@@ -53,7 +54,6 @@ obj-$(CONFIG_DEBUG_SYNCHRO_TEST) += sync
 obj-$(CONFIG_RCU_TORTURE_TEST) += rcutorture.o
 obj-$(CONFIG_RELAY) += relay.o
 obj-$(CONFIG_SYSCTL) += utsname_sysctl.o
-obj-$(CONFIG_UTS_NS) += utsname.o
 obj-$(CONFIG_TASK_DELAY_ACCT) += delayacct.o
 obj-$(CONFIG_TASKSTATS) += taskstats.o tsacct.o

Index: 2.6.22-rc4-mm2/include/linux/ipc.h
===================================================================
--- 2.6.22-rc4-mm2.orig/include/linux/ipc.h
+++ 2.6.22-rc4-mm2/include/linux/ipc.h
@@ -93,6 +93,7 @@ extern struct ipc_namespace init_ipc_ns;

 #ifdef CONFIG_SYSVIPC
 #define INIT_IPC_NS(ns)  .ns  = &init_ipc_ns,
+extern void free_ipc_ns(struct kref *kref);
 extern struct ipc_namespace *copy_ipcs(unsigned long flags,
       struct ipc_namespace *ns);
 #else
@@ -104,13 +105,9 @@ static inline struct ipc_namespace *copy
 }
 #endif

-#ifdef CONFIG_IPC_NS
-extern void free_ipc_ns(struct kref *kref);
-#endif
-
 static inline struct ipc_namespace *get_ipc_ns(struct ipc_namespace *ns)
 {
-#ifdef CONFIG_IPC_NS
+#ifdef CONFIG_SYSVIPC
   if (ns)
     kref_get(&ns->kref);
 #endif
@@ -119,7 +116,7 @@ static inline struct ipc_namespace *get_
```

```
 static inline void put_ipc_ns(struct ipc_namespace *ns)
 {
-#ifdef CONFIG_IPC_NS
+#ifdef CONFIG_SYSVIPC
  kref_put(&ns->kref, free_ipc_ns);
 #endif
 }
@@ -127,5 +124,3 @@ static inline void put_ipc_ns(struct ipc
 #endif /* __KERNEL__ */

 #endif /* _LINUX_IPC_H */
-
-
Index: 2.6.22-rc4-mm2/ipc/msg.c
===================================================================
--- 2.6.22-rc4-mm2.orig/ipc/msg.c
+++ 2.6.22-rc4-mm2/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: 2.6.22-rc4-mm2/ipc/sem.c
===================================================================
--- 2.6.22-rc4-mm2.orig/ipc/sem.c
+++ 2.6.22-rc4-mm2/ipc/sem.c
@@ -121,7 +121,7 @@ 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_semmsl = SEMMSL;
@@ -132,7 +132,6 @@ static void __ipc_init __sem_init_ns(str
  ipc_init_ids(ids, ns->sc_semmni);
 }

-#ifdef CONFIG_IPC_NS
 int sem_init_ns(struct ipc_namespace *ns)
 {
  struct ipc_ids *ids;
@@ -164,7 +163,6 @@ 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: 2.6.22-rc4-mm2/ipc/shm.c
===================================================================
--- 2.6.22-rc4-mm2.orig/ipc/shm.c
+++ 2.6.22-rc4-mm2/ipc/shm.c
@@ -77,7 +77,7 @@ 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;
@@ -98,7 +98,6 @@ 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;
@@ -130,7 +129,6 @@ 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: 2.6.22-rc4-mm2/ipc/util.c
===================================================================
--- 2.6.22-rc4-mm2.orig/ipc/util.c
+++ 2.6.22-rc4-mm2/ipc/util.c
@@ -50,7 +50,6 @@ struct ipc_namespace init_ipc_ns = {
  },
 };

-#ifdef CONFIG_IPC_NS
 static struct ipc_namespace *clone_ipc_ns(struct ipc_namespace *old_ns)
 {
  int err;
@@ -110,14 +109,6 @@ void free_ipc_ns(struct kref *kref)
  shm_exit_ns(ns);
  kfree(ns);
 }
-#else
-struct ipc_namespace *copy_ipcs(unsigned long flags, struct ipc_namespace *ns)
-{
- if (flags & CLONE_NEWIPC)
-  return ERR_PTR(-EINVAL);
- return ns;
-}
-#endif

 /**
  * ipc_init - initialise IPC subsystem
@@ -145,7 +136,7 @@ __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: 2.6.22-rc4-mm2/ipc/util.h
===================================================================
--- 2.6.22-rc4-mm2.orig/ipc/util.h
+++ 2.6.22-rc4-mm2/ipc/util.h
@@ -41,12 +41,8 @@ struct ipc_ids {
 };

 struct seq_file;
```

```
-#ifdef 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: 2.6.22-rc4-mm2/kernel/utsname_sysctl.c
===================================================================
--- 2.6.22-rc4-mm2.orig/kernel/utsname_sysctl.c
+++ 2.6.22-rc4-mm2/kernel/utsname_sysctl.c
@@ -18,10 +18,7 @@
 static void *get_uts(ctl_table *table, int write)
 {
  char *which = table->data;
-#ifdef CONFIG_UTS_NS
- struct uts_namespace *uts_ns = current->nsproxy->uts_ns;
- which = (which - (char *)&init_uts_ns) + (char *)uts_ns;
-#endif
+
  if (!write)
   down_read(&uts_sem);
  else
Index: 2.6.22-rc4-mm2/kernel/nsproxy.c
===================================================================
--- 2.6.22-rc4-mm2.orig/kernel/nsproxy.c
+++ 2.6.22-rc4-mm2/kernel/nsproxy.c
@@ -157,16 +157,6 @@ int unshare_nsproxy_namespaces(unsigned
  if (!(unshare_flags & (CLONE_NEWNS | CLONE_NEWUTS | CLONE_NEWIPC)))
   return 0;

-#ifndef CONFIG_IPC_NS
- if (unshare_flags & CLONE_NEWIPC)
-  return -EINVAL;
-#endif
-
-#ifndef CONFIG_UTS_NS
- if (unshare_flags & CLONE_NEWUTS)
-  return -EINVAL;
-#endif
-
  if (!capable(CAP_SYS_ADMIN))
   return -EPERM;
```

Containers mailing list
Containers@lists.linux-foundation.org
https://lists.linux-foundation.org/mailman/listinfo/containers