
Subject: [PATCH 2/6] Move the UTS namespace under UTS_NS option

Posted by [Pavel Emelianov](#) on Wed, 14 Nov 2007 11:30:06 GMT

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Currently all the namespace management code is in the kernel/utsname.c file, so just compile it out and make stubs in the appropriate header.

The init namespace itself is in init/version.c and is in the kernel all the time.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

diff --git a/include/linux/utsname.h b/include/linux/utsname.h

index 923db99..1123267 100644

--- a/include/linux/utsname.h

+++ b/include/linux/utsname.h

@@ -35,6 +35,7 @@ struct new_utsname {

#include <linux/sched.h>

#include <linux/kref.h>

#include <linux/nsproxy.h>

+#include <linux/err.h>

#include <asm/atomic.h>

struct uts_namespace {

@@ -43,6 +44,7 @@ struct uts_namespace {

};

extern struct uts_namespace init_uts_ns;

+#ifdef CONFIG_UTS_NS

static inline void get_uts_ns(struct uts_namespace *ns)

{

kref_get(&ns->kref);

@@ -56,6 +58,25 @@ static inline void put_uts_ns(struct uts_namespace *ns)

{

kref_put(&ns->kref, free_uts_ns);

}

+#else

+static inline void get_uts_ns(struct uts_namespace *ns)

+{

+}

+

+static inline void put_uts_ns(struct uts_namespace *ns)

+{

+}

+

```

+static inline struct uts_namespace *copy_utsname(unsigned long flags,
+ struct uts_namespace *ns)
+{
+ if (flags & CLONE_NEWUTS)
+ return ERR_PTR(-EINVAL);
+
+ return ns;
+}
+
+
+static inline struct new_utsname *utsname(void)
+{
+ return &current->nsproxy->uts_ns->name;
+}
diff --git a/init/Kconfig b/init/Kconfig
index 4ccc1a0..2139218 100644
--- a/init/Kconfig
+++ b/init/Kconfig
@@ -413,6 +413,13 @@ config NAMESPACES
 or same user id or pid may refer to different tasks when used in
 different namespaces.

+config UTS_NS
+ bool "UTS namespace"
+ depends on NAMESPACES
+ help
+ In this namespace tasks see different info provided with the
+ uname() system call
+
+config BLK_DEV_INITRD
+ bool "Initial RAM filesystem and RAM disk (initramfs/initrd) support"
+ depends on BROKEN || !FRV
diff --git a/kernel/Makefile b/kernel/Makefile
index 876dbcd..19d2411 100644
--- a/kernel/Makefile
+++ b/kernel/Makefile
@@ -9,7 +9,7 @@ obj-y = sched.o fork.o exec_domain.o panic.o printk.o profile.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 nsproxy.o srcu.o \
- utsname.o notifier.o pm_qos_params.o
+ notifier.o pm_qos_params.o

obj-$(CONFIG_SYSCTL) += sysctl_check.o
obj-$(CONFIG_STACKTRACE) += stacktrace.o
@@ -48,6 +48,7 @@ obj-$(CONFIG_AUDIT) += audit.o auditfilter.o
obj-$(CONFIG_AUDITSYSCALL) += audit.o
obj-$(CONFIG_AUDIT_TREE) += audit_tree.o
obj-$(CONFIG_KPROBES) += kprobes.o

```

```
+obj-$(CONFIG_UTS_NS) += utsname.o
obj-$(CONFIG_SYSFS) += ksysfs.o
obj-$(CONFIG_DETECT_SOFTLOCKUP) += softlockup.o
obj-$(CONFIG_GENERIC_HARDIRQS) += irq/
```

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1.5.3.4

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