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Subject: [PATCH 2/5] Move the UST namespace under the option  
Posted by [Pavel Emelianov](#) on Mon, 01 Oct 2007 15:34:58 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 stub in .h file.

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

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```
diff --git a/include/linux/utsname.h b/include/linux/utsname.h
index 923db99..52b9116 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_NAMESPACES
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
{
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/kernel/Makefile b/kernel/Makefile
index 76f782f..5817bfe 100644
--- a/kernel/Makefile
+++ b/kernel/Makefile
@@ -4,8 +4,7 @@
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 \
- utsname.o notifier.o sysctl.o
+ hrtimer.o rwsem.o latency.o nsproxy.o srcu.o notifier.o sysctl.o

obj-$(CONFIG_SYSCTL) += sysctl_check.o
obj-$(CONFIG_STACKTRACE) += stacktrace.o
@@ -50,6 +49,7 @@
obj-$(CONFIG_AUDITSYSCALL) += auditsc.o
obj-$(CONFIG_AUDIT_TREE) += audit_tree.o
obj-$(CONFIG_KPROBES) += kprobes.o
obj-$(CONFIG_KGDB) += kgdb.o
+obj-$(CONFIG_NAMESPACES) += utsname.o
obj-$(CONFIG_SYSFS) += ksysfs.o
obj-$(CONFIG_DETECT_SOFTLOCKUP) += softlockup.o
obj-$(CONFIG_GENERIC_HARDIRQS) += irq/

```

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