
Subject: [PATCH 4/9] namespaces: utsname: switch to using uts namespaces

Posted by [serue](#) on Thu, 18 May 2006 15:49:36 GMT

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Replace references to system_utsname to the per-process uts namespace where appropriate. This includes things like uname.

Changes: Per Eric Biederman's comments, use the per-process uts namespace for ELF_PLATFORM, sunrpc, and parts of net/ipv4/ipconfig.c

Signed-off-by: Serge E. Hallyn <serue@us.ibm.com>

```
arch/alpha/kernel/osf_sys.c      | 24 ++++++++-----
arch/i386/kernel/sys_i386.c      | 12 +++++-----
arch/ia64/sn/kernel/sn2/sn_hwperf.c | 2 +-
arch/m32r/kernel/sys_m32r.c      | 2 +-
arch/mips/kernel/linux32.c       | 2 +-
arch/mips/kernel/syscall.c       | 18 +++++-----
arch/mips/kernel/sysirix.c       | 12 +++++-----
arch/parisc/hpux/sys_hpux.c      | 22 ++++++++-----
arch/powerpc/kernel/syscalls.c   | 14 +++++-----
arch/sh/kernel/sys_sh.c          | 2 +-
arch/sh64/kernel/sys_sh64.c      | 2 +-
arch/sparc/kernel/sys_sparc.c    | 4 ++-
arch/sparc/kernel/sys_sunos.c    | 10 +++++-----
arch/sparc64/kernel/sys_sparc.c  | 4 ++-
arch/sparc64/kernel/sys_sunos32.c | 10 +++++-----
arch/sparc64/solaris/misc.c      | 6 +++--
arch/um/drivers/mconsole_kern.c  | 6 +++--
arch/um/kernel/syscall_kern.c    | 12 +++++-----
arch/um/sys-x86_64/syscalls.c    | 2 +-
arch/x86_64/ia32/sys_ia32.c      | 10 +++++-----
arch/x86_64/kernel/sys_x86_64.c  | 2 +-
arch/xtensa/kernel/syscalls.c    | 2 +-
drivers/char/random.c            | 4 ++-
fs/cifs/connect.c                | 28 ++++++++-----
fs/exec.c                        | 2 +-
fs/lockd/clntproc.c              | 4 ++-
fs/lockd/mon.c                   | 2 +-
fs/lockd/svclock.c               | 2 +-
fs/lockd/xdr.c                   | 2 +-
fs/nfs/nfsroot.c                 | 2 +-
include/asm-i386/elf.h           | 2 +-
include/linux/lockd/lockd.h      | 2 +-
kernel/sys.c                     | 14 +++++-----
net/ipv4/ipconfig.c              | 14 +++++-----
```

net/sunrpc/clnt.c | 4 ++--
35 files changed, 131 insertions(+), 131 deletions(-)

9ee063adf4d2287583dbb0a71d1d5f80d7ae011f
diff --git a/arch/alpha/kernel/osf_sys.c b/arch/alpha/kernel/osf_sys.c
index 31afe3d..b793b96 100644

```
--- a/arch/alpha/kernel/osf_sys.c
+++ b/arch/alpha/kernel/osf_sys.c
@@ -402,15 +402,15 @@ osf_utsname(char __user *name)

    down_read(&uts_sem);
    error = -EFAULT;
- if (copy_to_user(name + 0, system_utsname.sysname, 32))
+ if (copy_to_user(name + 0, utsname()->sysname, 32))
    goto out;
- if (copy_to_user(name + 32, system_utsname.nodename, 32))
+ if (copy_to_user(name + 32, utsname()->nodename, 32))
    goto out;
- if (copy_to_user(name + 64, system_utsname.release, 32))
+ if (copy_to_user(name + 64, utsname()->release, 32))
    goto out;
- if (copy_to_user(name + 96, system_utsname.version, 32))
+ if (copy_to_user(name + 96, utsname()->version, 32))
    goto out;
- if (copy_to_user(name + 128, system_utsname.machine, 32))
+ if (copy_to_user(name + 128, utsname()->machine, 32))
    goto out;

    error = 0;
@@ -449,8 +449,8 @@ osf_getdomainname(char __user *name, int
```

```
    down_read(&uts_sem);
    for (i = 0; i < len; ++i) {
- __put_user(system_utsname.domainname[i], name + i);
- if (system_utsname.domainname[i] == '\0')
+ __put_user(utsname()->domainname[i], name + i);
+ if (utsname()->domainname[i] == '\0')
        break;
    }
    up_read(&uts_sem);
@@ -608,11 +608,11 @@ asmlinkage long
osf_sysinfo(int command, char __user *buf, long count)
{
    static char * sysinfo_table[] = {
- system_utsname.sysname,
- system_utsname.nodename,
- system_utsname.release,
- system_utsname.version,
```

```

- system_utsname.machine,
+ utsname()->sysname,
+ utsname()->nodename,
+ utsname()->release,
+ utsname()->version,
+ utsname()->machine,
  "alpha", /* instruction set architecture */
  "dummy", /* hardware serial number */
  "dummy", /* hardware manufacturer */
diff --git a/arch/i386/kernel/sys_i386.c b/arch/i386/kernel/sys_i386.c
index 8fdb1fb..4af731d 100644
--- a/arch/i386/kernel/sys_i386.c
+++ b/arch/i386/kernel/sys_i386.c
@@ -210,7 +210,7 @@ asmlinkage int sys_uname(struct old_utsn
  if (!name)
    return -EFAULT;
  down_read(&uts_sem);
- err=copy_to_user(name, &system_utsname, sizeof (*name));
+ err=copy_to_user(name, utsname(), sizeof (*name));
  up_read(&uts_sem);
  return err?-EFAULT:0;
}
@@ -226,15 +226,15 @@ asmlinkage int sys_olduname(struct oldol

  down_read(&uts_sem);

- error = __copy_to_user(&name->sysname,&system_utsname.sysname,__OLD_UTS_LEN);
+ error = __copy_to_user(&name->sysname,&utsname()->sysname,__OLD_UTS_LEN);
  error |= __put_user(0,name->sysname+__OLD_UTS_LEN);
- error |= __copy_to_user(&name->nodename,&system_utsname.nodename,__OLD_UTS_LEN);
+ error |= __copy_to_user(&name->nodename,&utsname()->nodename,__OLD_UTS_LEN);
  error |= __put_user(0,name->nodename+__OLD_UTS_LEN);
- error |= __copy_to_user(&name->release,&system_utsname.release,__OLD_UTS_LEN);
+ error |= __copy_to_user(&name->release,&utsname()->release,__OLD_UTS_LEN);
  error |= __put_user(0,name->release+__OLD_UTS_LEN);
- error |= __copy_to_user(&name->version,&system_utsname.version,__OLD_UTS_LEN);
+ error |= __copy_to_user(&name->version,&utsname()->version,__OLD_UTS_LEN);
  error |= __put_user(0,name->version+__OLD_UTS_LEN);
- error |= __copy_to_user(&name->machine,&system_utsname.machine,__OLD_UTS_LEN);
+ error |= __copy_to_user(&name->machine,&utsname()->machine,__OLD_UTS_LEN);
  error |= __put_user(0,name->machine+__OLD_UTS_LEN);

  up_read(&uts_sem);
diff --git a/arch/ia64/sn/kernel/sn2/sn_hwperf.c b/arch/ia64/sn/kernel/sn2/sn_hwperf.c
index 739c948..a27b223 100644
--- a/arch/ia64/sn/kernel/sn2/sn_hwperf.c
+++ b/arch/ia64/sn/kernel/sn2/sn_hwperf.c
@@ -420,7 +420,7 @@ static int sn_topology_show(struct seq_f

```

```

"coherency_domain %d, "
"region_size %d\n",

- partid, system_utsname.nodename,
+ partid, utsname()->nodename,
  shubtype ? "shub2" : "shub1",
  (u64)nasid_mask << nasid_shift, nasid_msb, nasid_shift,
  system_size, sharing_size, coher, region_size);
diff --git a/arch/m32r/kernel/sys_m32r.c b/arch/m32r/kernel/sys_m32r.c
index 670cb49..11412c0 100644
--- a/arch/m32r/kernel/sys_m32r.c
+++ b/arch/m32r/kernel/sys_m32r.c
@@ -206,7 +206,7 @@ asmlinkage int sys_utsname(struct old_utsn
  if (!name)
    return -EFAULT;
  down_read(&uts_sem);
- err=copy_to_user(name, &system_utsname, sizeof (*name));
+ err=copy_to_user(name, utsname(), sizeof (*name));
  up_read(&uts_sem);
  return err?-EFAULT:0;
}
diff --git a/arch/mips/kernel/linux32.c b/arch/mips/kernel/linux32.c
index a7d2bb3..66f999b 100644
--- a/arch/mips/kernel/linux32.c
+++ b/arch/mips/kernel/linux32.c
@@ -1040,7 +1040,7 @@ asmlinkage long sys32_newuname(struct ne
  int ret = 0;

  down_read(&uts_sem);
- if (copy_to_user(name,&system_utsname,sizeof *name))
+ if (copy_to_user(name,utsname(),sizeof *name))
    ret = -EFAULT;
  up_read(&uts_sem);

diff --git a/arch/mips/kernel/syscall.c b/arch/mips/kernel/syscall.c
index 2aeaa2f..8b13d57 100644
--- a/arch/mips/kernel/syscall.c
+++ b/arch/mips/kernel/syscall.c
@@ -232,7 +232,7 @@ out:
  */
  asmlinkage int sys_utsname(struct old_utsname __user * name)
  {
- if (name && !copy_to_user(name, &system_utsname, sizeof (*name)))
+ if (name && !copy_to_user(name, utsname(), sizeof (*name)))
    return 0;
    return -EFAULT;
  }
@@ -249,15 +249,15 @@ asmlinkage int sys_olduname(struct oldol

```

```

if (!access_ok(VERIFY_WRITE,name,sizeof(struct oldold_utsname)))
    return -EFAULT;

- error = __copy_to_user(&name->sysname,&system_utsname.sysname,__OLD_UTS_LEN);
+ error = __copy_to_user(&name->sysname,&utsname()->sysname,__OLD_UTS_LEN);
    error -= __put_user(0,name->sysname+__OLD_UTS_LEN);
- error -= __copy_to_user(&name->nodename,&system_utsname.nodename,__OLD_UTS_LEN);
+ error -= __copy_to_user(&name->nodename,&utsname()->nodename,__OLD_UTS_LEN);
    error -= __put_user(0,name->nodename+__OLD_UTS_LEN);
- error -= __copy_to_user(&name->release,&system_utsname.release,__OLD_UTS_LEN);
+ error -= __copy_to_user(&name->release,&utsname()->release,__OLD_UTS_LEN);
    error -= __put_user(0,name->release+__OLD_UTS_LEN);
- error -= __copy_to_user(&name->version,&system_utsname.version,__OLD_UTS_LEN);
+ error -= __copy_to_user(&name->version,&utsname()->version,__OLD_UTS_LEN);
    error -= __put_user(0,name->version+__OLD_UTS_LEN);
- error -= __copy_to_user(&name->machine,&system_utsname.machine,__OLD_UTS_LEN);
+ error -= __copy_to_user(&name->machine,&utsname()->machine,__OLD_UTS_LEN);
    error = __put_user(0,name->machine+__OLD_UTS_LEN);
    error = error ? -EFAULT : 0;

@@ -293,10 +293,10 @@ asmlinkage int _sys_sysmips(int cmd, lon
    return -EFAULT;

    down_write(&uts_sem);
-    strncpy(system_utsname.nodename, nodename, len);
+    strncpy(utsname()->nodename, nodename, len);
    nodename[__NEW_UTS_LEN] = '\0';
-    strncpy(system_utsname.nodename, nodename,
-        sizeof(system_utsname.nodename));
+    strncpy(utsname()->nodename, nodename,
+        sizeof(utsname()->nodename));
    up_write(&uts_sem);
    return 0;
}
diff --git a/arch/mips/kernel/sysirix.c b/arch/mips/kernel/sysirix.c
index 5407b78..1b4e7e7 100644
--- a/arch/mips/kernel/sysirix.c
+++ b/arch/mips/kernel/sysirix.c
@@ -884,7 +884,7 @@ asmlinkage int irix_getdomainname(char _
    down_read(&uts_sem);
    if (len > __NEW_UTS_LEN)
        len = __NEW_UTS_LEN;
-    err = copy_to_user(name, system_utsname.domainname, len) ? -EFAULT : 0;
+    err = copy_to_user(name, utsname()->domainname, len) ? -EFAULT : 0;
    up_read(&uts_sem);

    return err;
@@ -1127,11 +1127,11 @@ struct iuname {

```

```

asmlinkage int irix_uname(struct iuname __user *buf)
{
    down_read(&uts_sem);
- if (copy_from_user(system_utsname.sysname, buf->sysname, 65)
-     || copy_from_user(system_utsname.nodename, buf->nodename, 65)
-     || copy_from_user(system_utsname.release, buf->release, 65)
-     || copy_from_user(system_utsname.version, buf->version, 65)
-     || copy_from_user(system_utsname.machine, buf->machine, 65)) {
+ if (copy_from_user(utsname()->sysname, buf->sysname, 65)
+     || copy_from_user(utsname()->nodename, buf->nodename, 65)
+     || copy_from_user(utsname()->release, buf->release, 65)
+     || copy_from_user(utsname()->version, buf->version, 65)
+     || copy_from_user(utsname()->machine, buf->machine, 65)) {
    return -EFAULT;
}
    up_read(&uts_sem);
diff --git a/arch/parisc/hpux/sys_hpux.c b/arch/parisc/hpux/sys_hpux.c
index 05273cc..9fc2c08 100644
--- a/arch/parisc/hpux/sys_hpux.c
+++ b/arch/parisc/hpux/sys_hpux.c
@@ -266,15 +266,15 @@ static int hpux_uname(struct hpux_utsnam

    down_read(&uts_sem);

- error = __copy_to_user(&name->sysname,&system_utsname.sysname,HPUX_UTSLEN-1);
+ error = __copy_to_user(&name->sysname,&utsname()->sysname,HPUX_UTSLEN-1);
    error |= __put_user(0,name->sysname+HPUX_UTSLEN-1);
- error |= __copy_to_user(&name->nodename,&system_utsname.nodename,HPUX_UTSLEN-1);
+ error |= __copy_to_user(&name->nodename,&utsname()->nodename,HPUX_UTSLEN-1);
    error |= __put_user(0,name->nodename+HPUX_UTSLEN-1);
- error |= __copy_to_user(&name->release,&system_utsname.release,HPUX_UTSLEN-1);
+ error |= __copy_to_user(&name->release,&utsname()->release,HPUX_UTSLEN-1);
    error |= __put_user(0,name->release+HPUX_UTSLEN-1);
- error |= __copy_to_user(&name->version,&system_utsname.version,HPUX_UTSLEN-1);
+ error |= __copy_to_user(&name->version,&utsname()->version,HPUX_UTSLEN-1);
    error |= __put_user(0,name->version+HPUX_UTSLEN-1);
- error |= __copy_to_user(&name->machine,&system_utsname.machine,HPUX_UTSLEN-1);
+ error |= __copy_to_user(&name->machine,&utsname()->machine,HPUX_UTSLEN-1);
    error |= __put_user(0,name->machine+HPUX_UTSLEN-1);

    up_read(&uts_sem);
@@ -373,8 +373,8 @@ int hpux_utssys(char *ubuf, int n, int t
/* TODO: print a warning about using this? */
    down_write(&uts_sem);
    error = -EFAULT;
- if (!copy_from_user(system_utsname.sysname, ubuf, len)) {
-     system_utsname.sysname[len] = 0;
+ if (!copy_from_user(utsname()->sysname, ubuf, len)) {

```

```

+  utsname()->sysname[len] = 0;
    error = 0;
}
    up_write(&uts_sem);
@@ -400,8 +400,8 @@ int hpux_utssys(char *ubuf, int n, int t
    /* TODO: print a warning about this? */
    down_write(&uts_sem);
    error = -EFAULT;
- if (!copy_from_user(system_utsname.release, ubuf, len)) {
-     system_utsname.release[len] = 0;
+ if (!copy_from_user(utsname()->release, ubuf, len)) {
+     utsname()->release[len] = 0;
    error = 0;
}
    up_write(&uts_sem);
@@ -422,13 +422,13 @@ int hpux_getdomainname(char *name, int l

    down_read(&uts_sem);

- nlen = strlen(system_utsname.domainname) + 1;
+ nlen = strlen(utsname()->domainname) + 1;

    if (nlen < len)
        len = nlen;
    if (len > __NEW_UTS_LEN)
        goto done;
- if (copy_to_user(name, system_utsname.domainname, len))
+ if (copy_to_user(name, utsname()->domainname, len))
        goto done;
    err = 0;
done:
diff --git a/arch/powerpc/kernel/syscalls.c b/arch/powerpc/kernel/syscalls.c
index 9b69d99..d358866 100644
--- a/arch/powerpc/kernel/syscalls.c
+++ b/arch/powerpc/kernel/syscalls.c
@@ -260,7 +260,7 @@ long ppc_newuname(struct new_utsname __u
    int err = 0;

    down_read(&uts_sem);
- if (copy_to_user(name, &system_utsname, sizeof(*name)))
+ if (copy_to_user(name, utsname(), sizeof(*name)))
    err = -EFAULT;
    up_read(&uts_sem);
    if (!err)
@@ -273,7 +273,7 @@ int sys_uname(struct old_utsname __user
    int err = 0;

    down_read(&uts_sem);

```

```

- if (copy_to_user(name, &system_utsname, sizeof(*name)))
+ if (copy_to_user(name, utsname(), sizeof(*name)))
    err = -EFAULT;
    up_read(&uts_sem);
    if (!err)
@@ -289,19 +289,19 @@ int sys_olduname(struct oldold_utsname _
    return -EFAULT;

    down_read(&uts_sem);
- error = __copy_to_user(&name->sysname, &system_utsname.sysname,
+ error = __copy_to_user(&name->sysname, &utsname()->sysname,
    __OLD_UTS_LEN);
    error |= __put_user(0, name->sysname + __OLD_UTS_LEN);
- error |= __copy_to_user(&name->nodename, &system_utsname.nodename,
+ error |= __copy_to_user(&name->nodename, &utsname()->nodename,
    __OLD_UTS_LEN);
    error |= __put_user(0, name->nodename + __OLD_UTS_LEN);
- error |= __copy_to_user(&name->release, &system_utsname.release,
+ error |= __copy_to_user(&name->release, &utsname()->release,
    __OLD_UTS_LEN);
    error |= __put_user(0, name->release + __OLD_UTS_LEN);
- error |= __copy_to_user(&name->version, &system_utsname.version,
+ error |= __copy_to_user(&name->version, &utsname()->version,
    __OLD_UTS_LEN);
    error |= __put_user(0, name->version + __OLD_UTS_LEN);
- error |= __copy_to_user(&name->machine, &system_utsname.machine,
+ error |= __copy_to_user(&name->machine, &utsname()->machine,
    __OLD_UTS_LEN);
    error |= override_machine(name->machine);
    up_read(&uts_sem);
diff --git a/arch/sh/kernel/sys_sh.c b/arch/sh/kernel/sys_sh.c
index 917b2f3..e4966b2 100644
--- a/arch/sh/kernel/sys_sh.c
+++ b/arch/sh/kernel/sys_sh.c
@@ -267,7 +267,7 @@ asmlinkage int sys_uname(struct old_utsn
    if (!name)
        return -EFAULT;
    down_read(&uts_sem);
- err=copy_to_user(name, &system_utsname, sizeof (*name));
+ err=copy_to_user(name, utsname(), sizeof (*name));
    up_read(&uts_sem);
    return err?-EFAULT:0;
}
diff --git a/arch/sh64/kernel/sys_sh64.c b/arch/sh64/kernel/sys_sh64.c
index 58ff7d5..a8dc88c 100644
--- a/arch/sh64/kernel/sys_sh64.c
+++ b/arch/sh64/kernel/sys_sh64.c
@@ -279,7 +279,7 @@ asmlinkage int sys_uname(struct old_utsn

```

```

if (!name)
    return -EFAULT;
down_read(&uts_sem);
- err=copy_to_user(name, &system_utsname, sizeof (*name));
+ err=copy_to_user(name, utsname(), sizeof (*name));
    up_read(&uts_sem);
    return err?-EFAULT:0;
}
diff --git a/arch/sparc/kernel/sys_sparc.c b/arch/sparc/kernel/sys_sparc.c
index 0cdfc9d..c8ad73c 100644
--- a/arch/sparc/kernel/sys_sparc.c
+++ b/arch/sparc/kernel/sys_sparc.c
@@ -470,13 +470,13 @@ asmlinkage int sys_getdomainname(char __
    down_read(&uts_sem);

- nlen = strlen(system_utsname.domainname) + 1;
+ nlen = strlen(utsname()->domainname) + 1;

    if (nlen < len)
        len = nlen;
    if (len > __NEW_UTS_LEN)
        goto done;
- if (copy_to_user(name, system_utsname.domainname, len))
+ if (copy_to_user(name, utsname()->domainname, len))
        goto done;
    err = 0;
done:
diff --git a/arch/sparc/kernel/sys_sunos.c b/arch/sparc/kernel/sys_sunos.c
index 288de27..9f9206f 100644
--- a/arch/sparc/kernel/sys_sunos.c
+++ b/arch/sparc/kernel/sys_sunos.c
@@ -483,13 +483,13 @@ asmlinkage int sunos_uname(struct sunos_
{
    int ret;
    down_read(&uts_sem);
- ret = copy_to_user(&name->sname[0], &system_utsname.sysname[0], sizeof(name->sname) -
1);
+ ret = copy_to_user(&name->sname[0], &utsname()->sysname[0], sizeof(name->sname) - 1);
    if (!ret) {
- ret |= __copy_to_user(&name->nname[0], &system_utsname.nodename[0],
sizeof(name->nname) - 1);
+ ret |= __copy_to_user(&name->nname[0], &utsname()->nodename[0], sizeof(name->nname) -
1);
        ret |= __put_user('\0', &name->nname[8]);
- ret |= __copy_to_user(&name->rel[0], &system_utsname.release[0], sizeof(name->rel) - 1);
- ret |= __copy_to_user(&name->ver[0], &system_utsname.version[0], sizeof(name->ver) - 1);
- ret |= __copy_to_user(&name->mach[0], &system_utsname.machine[0], sizeof(name->mach) -

```

```

1);
+ ret |= __copy_to_user(&name->rel[0], &utsname()->release[0], sizeof(name->rel) - 1);
+ ret |= __copy_to_user(&name->ver[0], &utsname()->version[0], sizeof(name->ver) - 1);
+ ret |= __copy_to_user(&name->mach[0], &utsname()->machine[0], sizeof(name->mach) - 1);
}
up_read(&uts_sem);
return ret ? -EFAULT : 0;
diff --git a/arch/sparc64/kernel/sys_sparc.c b/arch/sparc64/kernel/sys_sparc.c
index 7a86913..0453bd2 100644
--- a/arch/sparc64/kernel/sys_sparc.c
+++ b/arch/sparc64/kernel/sys_sparc.c
@@ -707,13 +707,13 @@ asmlinkage long sys_getdomainname(char _

    down_read(&uts_sem);

- nlen = strlen(system_utsname.domainname) + 1;
+ nlen = strlen(utsname()->domainname) + 1;

    if (nlen < len)
        len = nlen;
    if (len > __NEW_UTS_LEN)
        goto done;
- if (copy_to_user(name, system_utsname.domainname, len))
+ if (copy_to_user(name, utsname()->domainname, len))
    goto done;
    err = 0;
done:
diff --git a/arch/sparc64/kernel/sys_sunos32.c b/arch/sparc64/kernel/sys_sunos32.c
index ae5b32f..ba98c47 100644
--- a/arch/sparc64/kernel/sys_sunos32.c
+++ b/arch/sparc64/kernel/sys_sunos32.c
@@ -439,16 +439,16 @@ asmlinkage int sunos_uname(struct sunos_
    int ret;

    down_read(&uts_sem);
- ret = copy_to_user(&name->sname[0], &system_utsname.sysname[0],
+ ret = copy_to_user(&name->sname[0], &utsname()->sysname[0],
        sizeof(name->sname) - 1);
- ret |= copy_to_user(&name->nname[0], &system_utsname.nodename[0],
+ ret |= copy_to_user(&name->nname[0], &utsname()->nodename[0],
        sizeof(name->nname) - 1);
    ret |= put_user('\0', &name->nname[8]);
- ret |= copy_to_user(&name->rel[0], &system_utsname.release[0],
+ ret |= copy_to_user(&name->rel[0], &utsname()->release[0],
        sizeof(name->rel) - 1);
- ret |= copy_to_user(&name->ver[0], &system_utsname.version[0],
+ ret |= copy_to_user(&name->ver[0], &utsname()->version[0],
        sizeof(name->ver) - 1);

```

```

- ret |= copy_to_user(&name->mach[0], &system_utsname.machine[0],
+ ret |= copy_to_user(&name->mach[0], &utsname()->machine[0],
    sizeof(name->mach) - 1);
    up_read(&uts_sem);
    return (ret ? -EFAULT : 0);
diff --git a/arch/sparc64/solaris/misc.c b/arch/sparc64/solaris/misc.c
index 5284996..5d0162a 100644
--- a/arch/sparc64/solaris/misc.c
+++ b/arch/sparc64/solaris/misc.c
@@ -239,7 +239,7 @@ asmlinkage int solaris_utssys(u32 buf, u
    /* Let's cheat */
    err = set_utsfield(v->sysname, "SunOS", 1, 0);
    down_read(&uts_sem);
- err |= set_utsfield(v->nodename, system_utsname.nodename,
+ err |= set_utsfield(v->nodename, utsname()->nodename,
    1, 1);
    up_read(&uts_sem);
    err |= set_utsfield(v->release, "2.6", 0, 0);
@@ -263,7 +263,7 @@ asmlinkage int solaris_utsname(u32 buf)
    /* Why should we not lie a bit? */
    down_read(&uts_sem);
    err = set_utsfield(v->sysname, "SunOS", 0, 0);
- err |= set_utsfield(v->nodename, system_utsname.nodename, 1, 1);
+ err |= set_utsfield(v->nodename, utsname()->nodename, 1, 1);
    err |= set_utsfield(v->release, "5.6", 0, 0);
    err |= set_utsfield(v->version, "Generic", 0, 0);
    err |= set_utsfield(v->machine, machine(), 0, 0);
@@ -295,7 +295,7 @@ asmlinkage int solaris_sysinfo(int cmd,
    case SI_HOSTNAME:
        r = buffer + 256;
        down_read(&uts_sem);
- for (p = system_utsname.nodename, q = buffer;
+ for (p = utsname()->nodename, q = buffer;
        q < r && *p && *p != '\0'; *q++ = *p++);
        up_read(&uts_sem);
        *q = 0;
diff --git a/arch/um/drivers/mconsole_kern.c b/arch/um/drivers/mconsole_kern.c
index 6d7173f..244244a 100644
--- a/arch/um/drivers/mconsole_kern.c
+++ b/arch/um/drivers/mconsole_kern.c
@@ -106,9 +106,9 @@ void mconsole_version(struct mc_request
{
    char version[256];

- sprintf(version, "%s %s %s %s %s", system_utsname.sysname,
- system_utsname.nodename, system_utsname.release,
- system_utsname.version, system_utsname.machine);
+ sprintf(version, "%s %s %s %s %s", utsname()->sysname,

```

```
+ utsname()->nodename, utsname()->release,
+ utsname()->version, utsname()->machine);
  mconsole_reply(req, version, 0, 0);
}
```

```
diff --git a/arch/um/kernel/syscall_kern.c b/arch/um/kernel/syscall_kern.c
index 37d3978..d90e9ed 100644
```

```
--- a/arch/um/kernel/syscall_kern.c
```

```
+++ b/arch/um/kernel/syscall_kern.c
```

```
@@ -110,7 +110,7 @@ long sys_uname(struct old_utsname __user
  if (!name)
    return -EFAULT;
  down_read(&uts_sem);
- err=copy_to_user(name, &system_utsname, sizeof (*name));
+ err=copy_to_user(name, utsname(), sizeof (*name));
  up_read(&uts_sem);
  return err?-EFAULT:0;
}
```

```
@@ -126,19 +126,19 @@ long sys_olduname(struct oldold_utsname
```

```
  down_read(&uts_sem);
```

```
- error = __copy_to_user(&name->sysname,&system_utsname.sysname,
+ error = __copy_to_user(&name->sysname,&utsname()->sysname,
  __OLD_UTS_LEN);
  error |= __put_user(0,name->sysname+__OLD_UTS_LEN);
- error |= __copy_to_user(&name->nodename,&system_utsname.nodename,
+ error |= __copy_to_user(&name->nodename,&utsname()->nodename,
  __OLD_UTS_LEN);
  error |= __put_user(0,name->nodename+__OLD_UTS_LEN);
- error |= __copy_to_user(&name->release,&system_utsname.release,
+ error |= __copy_to_user(&name->release,&utsname()->release,
  __OLD_UTS_LEN);
  error |= __put_user(0,name->release+__OLD_UTS_LEN);
- error |= __copy_to_user(&name->version,&system_utsname.version,
+ error |= __copy_to_user(&name->version,&utsname()->version,
  __OLD_UTS_LEN);
  error |= __put_user(0,name->version+__OLD_UTS_LEN);
- error |= __copy_to_user(&name->machine,&system_utsname.machine,
+ error |= __copy_to_user(&name->machine,&utsname()->machine,
  __OLD_UTS_LEN);
  error |= __put_user(0,name->machine+__OLD_UTS_LEN);
```

```
diff --git a/arch/um/sys-x86_64/syscalls.c b/arch/um/sys-x86_64/syscalls.c
index 6acee5c..3ad014e 100644
```

```
--- a/arch/um/sys-x86_64/syscalls.c
```

```
+++ b/arch/um/sys-x86_64/syscalls.c
```

```
@@ -21,7 +21,7 @@ asmlinkage long sys_uname64(struct new_u
```

```

{
    int err;
    down_read(&uts_sem);
- err = copy_to_user(name, &system_utsname, sizeof (*name));
+ err = copy_to_user(name, utsname(), sizeof (*name));
    up_read(&uts_sem);
    if (personality(current->personality) == PER_LINUX32)
        err |= copy_to_user(&name->machine, "i686", 5);
diff --git a/arch/x86_64/ia32/sys_ia32.c b/arch/x86_64/ia32/sys_ia32.c
index f182b20..6e0a19d 100644
--- a/arch/x86_64/ia32/sys_ia32.c
+++ b/arch/x86_64/ia32/sys_ia32.c
@@ -801,13 +801,13 @@ asmlinkage long sys32_olduname(struct ol

    down_read(&uts_sem);

- error = __copy_to_user(&name->sysname,&system_utsname.sysname,__OLD_UTS_LEN);
+ error = __copy_to_user(&name->sysname,&utsname()->sysname,__OLD_UTS_LEN);
    __put_user(0,name->sysname+__OLD_UTS_LEN);
- __copy_to_user(&name->nodename,&system_utsname.nodename,__OLD_UTS_LEN);
+ __copy_to_user(&name->nodename,&utsname()->nodename,__OLD_UTS_LEN);
    __put_user(0,name->nodename+__OLD_UTS_LEN);
- __copy_to_user(&name->release,&system_utsname.release,__OLD_UTS_LEN);
+ __copy_to_user(&name->release,&utsname()->release,__OLD_UTS_LEN);
    __put_user(0,name->release+__OLD_UTS_LEN);
- __copy_to_user(&name->version,&system_utsname.version,__OLD_UTS_LEN);
+ __copy_to_user(&name->version,&utsname()->version,__OLD_UTS_LEN);
    __put_user(0,name->version+__OLD_UTS_LEN);
    {
        char *arch = "x86_64";
@@ -830,7 +830,7 @@ long sys32_uname(struct old_utsname __us
    if (!name)
        return -EFAULT;
    down_read(&uts_sem);
- err=copy_to_user(name, &system_utsname, sizeof (*name));
+ err=copy_to_user(name, utsname(), sizeof (*name));
    up_read(&uts_sem);
    if (personality(current->personality) == PER_LINUX32)
        err |= copy_to_user(&name->machine, "i686", 5);
diff --git a/arch/x86_64/kernel/sys_x86_64.c b/arch/x86_64/kernel/sys_x86_64.c
index 6449ea8..76bf7c2 100644
--- a/arch/x86_64/kernel/sys_x86_64.c
+++ b/arch/x86_64/kernel/sys_x86_64.c
@@ -148,7 +148,7 @@ asmlinkage long sys_uname(struct new_uts
{
    int err;
    down_read(&uts_sem);
- err = copy_to_user(name, &system_utsname, sizeof (*name));

```

```
+ err = copy_to_user(name, utsname(), sizeof (*name));
  up_read(&uts_sem);
  if (personality(current->personality) == PER_LINUX32)
    err |= copy_to_user(&name->machine, "i686", 5);
diff --git a/arch/xtensa/kernel/syscalls.c b/arch/xtensa/kernel/syscalls.c
index f20c649..30060c1 100644
--- a/arch/xtensa/kernel/syscalls.c
+++ b/arch/xtensa/kernel/syscalls.c
@@ -129,7 +129,7 @@ out:
```

```
int sys_uname(struct old_utsname * name)
{
- if (name && !copy_to_user(name, &system_utsname, sizeof (*name)))
+ if (name && !copy_to_user(name, utsname(), sizeof (*name)))
  return 0;
  return -EFAULT;
}
```

```
diff --git a/drivers/char/random.c b/drivers/char/random.c
index 58f3512..a891421 100644
--- a/drivers/char/random.c
+++ b/drivers/char/random.c
@@ -888,8 +888,8 @@ static void init_std_data(struct entropy
```

```
do_gettimeofday(&tv);
add_entropy_words(r, (__u32 *)&tv, sizeof(tv)/4);
- add_entropy_words(r, (__u32 *)&system_utsname,
- sizeof(system_utsname)/4);
+ add_entropy_words(r, (__u32 *)utsname(),
+ sizeof(*(utsname()))/4);
}
```

```
static int __init rand_initialize(void)
diff --git a/fs/cifs/connect.c b/fs/cifs/connect.c
index d2ec806..b6c0886 100644
--- a/fs/cifs/connect.c
+++ b/fs/cifs/connect.c
@@ -765,12 +765,12 @@ cifs_parse_mount_options(char *options,
  separator[1] = 0;
```

```
memset(vol->source_rfc1001_name,0x20,15);
- for(i=0;i < strlen(system_utsname.nodename,15);i++) {
+ for(i=0;i < strlen(utsname()->nodename,15);i++) {
  /* does not have to be a perfect mapping since the field is
  informational, only used for servers that do not support
  port 445 and it can be overridden at mount time */
  vol->source_rfc1001_name[i] =
- toupper(system_utsname.nodename[i]);
+ toupper(utsname()->nodename[i]);
```

```

}
vol->source_rfc1001_name[15] = 0;
/* null target name indicates to use *SMBSEVR default called name
@@ -2077,7 +2077,7 @@ CIFSsessSetup(unsigned int xid, struct c
    32, nls_codepage);
    bcc_ptr += 2 * bytes_returned;
    bytes_returned =
-    cifs_strtoUCS((__le16 *) bcc_ptr, system_utsname.release,
+    cifs_strtoUCS((__le16 *) bcc_ptr, utsname()->release,
        32, nls_codepage);
    bcc_ptr += 2 * bytes_returned;
    bcc_ptr += 2;
@@ -2104,8 +2104,8 @@ CIFSsessSetup(unsigned int xid, struct c
    }
    strcpy(bcc_ptr, "Linux version ");
    bcc_ptr += strlen("Linux version ");
-    strcpy(bcc_ptr, system_utsname.release);
-    bcc_ptr += strlen(system_utsname.release) + 1;
+    strcpy(bcc_ptr, utsname()->release);
+    bcc_ptr += strlen(utsname()->release) + 1;
    strcpy(bcc_ptr, CIFS_NETWORK_OPSYS);
    bcc_ptr += strlen(CIFS_NETWORK_OPSYS) + 1;
    }
@@ -2346,7 +2346,7 @@ CIFSspnegoSessSetup(unsigned int xid, st
    32, nls_codepage);
    bcc_ptr += 2 * bytes_returned;
    bytes_returned =
-    cifs_strtoUCS((__le16 *) bcc_ptr, system_utsname.release, 32,
+    cifs_strtoUCS((__le16 *) bcc_ptr, utsname()->release, 32,
        nls_codepage);
    bcc_ptr += 2 * bytes_returned;
    bcc_ptr += 2;
@@ -2371,8 +2371,8 @@ CIFSspnegoSessSetup(unsigned int xid, st
    }
    strcpy(bcc_ptr, "Linux version ");
    bcc_ptr += strlen("Linux version ");
-    strcpy(bcc_ptr, system_utsname.release);
-    bcc_ptr += strlen(system_utsname.release) + 1;
+    strcpy(bcc_ptr, utsname()->release);
+    bcc_ptr += strlen(utsname()->release) + 1;
    strcpy(bcc_ptr, CIFS_NETWORK_OPSYS);
    bcc_ptr += strlen(CIFS_NETWORK_OPSYS) + 1;
    }
@@ -2622,7 +2622,7 @@ CIFSNTLMSSPNegotiateSessSetup(unsigned i
    32, nls_codepage);
    bcc_ptr += 2 * bytes_returned;
    bytes_returned =
-    cifs_strtoUCS((__le16 *) bcc_ptr, system_utsname.release, 32,

```

```

+   cifs_strtoUCS((__le16 *) bcc_ptr, utsname()->release, 32,
    nls_codepage);
    bcc_ptr += 2 * bytes_returned;
    bcc_ptr += 2; /* null terminate Linux version */
@@ -2639,8 +2639,8 @@ CIFSNTLMSSPNegotiateSessSetup(unsigned int xi
} else { /* ASCII */
    strcpy(bcc_ptr, "Linux version ");
    bcc_ptr += strlen("Linux version ");
-   strcpy(bcc_ptr, system_utsname.release);
-   bcc_ptr += strlen(system_utsname.release) + 1;
+   strcpy(bcc_ptr, utsname()->release);
+   bcc_ptr += strlen(utsname()->release) + 1;
    strcpy(bcc_ptr, CIFS_NETWORK_OPSYS);
    bcc_ptr += strlen(CIFS_NETWORK_OPSYS) + 1;
    bcc_ptr++; /* empty domain field */
@@ -3001,7 +3001,7 @@ CIFSNTLMSSPAuthSessSetup(unsigned int xi
    32, nls_codepage);
    bcc_ptr += 2 * bytes_returned;
    bytes_returned =
-   cifs_strtoUCS((__le16 *) bcc_ptr, system_utsname.release, 32,
+   cifs_strtoUCS((__le16 *) bcc_ptr, utsname()->release, 32,
    nls_codepage);
    bcc_ptr += 2 * bytes_returned;
    bcc_ptr += 2; /* null term version string */
@@ -3053,8 +3053,8 @@ CIFSNTLMSSPAuthSessSetup(unsigned int xi

    strcpy(bcc_ptr, "Linux version ");
    bcc_ptr += strlen("Linux version ");
-   strcpy(bcc_ptr, system_utsname.release);
-   bcc_ptr += strlen(system_utsname.release) + 1;
+   strcpy(bcc_ptr, utsname()->release);
+   bcc_ptr += strlen(utsname()->release) + 1;
    strcpy(bcc_ptr, CIFS_NETWORK_OPSYS);
    bcc_ptr += strlen(CIFS_NETWORK_OPSYS) + 1;
    bcc_ptr++; /* null domain */
diff --git a/fs/exec.c b/fs/exec.c
index 3a79d97..cbb3270 100644
--- a/fs/exec.c
+++ b/fs/exec.c
@@ -1337,7 +1337,7 @@ static void format_corename(char *corename,
case 'h':
    down_read(&uts_sem);
    rc = snprintf(out_ptr, out_end - out_ptr,
-   "%s", system_utsname.nodename);
+   "%s", utsname()->nodename);
    up_read(&uts_sem);
    if (rc > out_end - out_ptr)
        goto out;

```

```

diff --git a/fs/lockd/clntproc.c b/fs/lockd/clntproc.c
index f96e381..915e596 100644
--- a/fs/lockd/clntproc.c
+++ b/fs/lockd/clntproc.c
@@ -130,11 +130,11 @@ static void nlmclnt_setlockargs(struct n
    nlmclnt_next_cookie(&argp->cookie);
    argp->state = nsm_local_state;
    memcpy(&lock->fh, NFS_FH(fl->fl_file->f_dentry->d_inode), sizeof(struct nfs_fh));
- lock->caller = system_utsname.nodename;
+ lock->caller = utsname()->nodename;
    lock->oh.data = req->a_owner;
    lock->oh.len = snprintf(req->a_owner, sizeof(req->a_owner), "%u@%s",
        (unsigned int)fl->fl_u.nfs_fl.owner->pid,
-    system_utsname.nodename);
+    utsname()->nodename);
    lock->svid = fl->fl_u.nfs_fl.owner->pid;
    lock->fl.start = fl->fl_start;
    lock->fl.end = fl->fl_end;
diff --git a/fs/lockd/mon.c b/fs/lockd/mon.c
index 3fc683f..547aaa3 100644
--- a/fs/lockd/mon.c
+++ b/fs/lockd/mon.c
@@ -152,7 +152,7 @@ xdr_encode_common(struct rpc_rqst *rqstp
    */
    sprintf(buffer, "%u.%u.%u.%u", NIPQUAD(argp->addr));
    if (!(p = xdr_encode_string(p, buffer))
- || !(p = xdr_encode_string(p, system_utsname.nodename)))
+ || !(p = xdr_encode_string(p, utsname()->nodename)))
        return ERR_PTR(-EIO);
    *p++ = htonl(argp->prog);
    *p++ = htonl(argp->vers);
diff --git a/fs/lockd/svclock.c b/fs/lockd/svclock.c
index 3ef7391..ec93c35 100644
--- a/fs/lockd/svclock.c
+++ b/fs/lockd/svclock.c
@@ -326,7 +326,7 @@ static int nlmsvc_setgrantargs(struct nl
{
    locks_copy_lock(&call->a_args.lock.fl, &lock->fl);
    memcpy(&call->a_args.lock.fh, &lock->fh, sizeof(call->a_args.lock.fh));
- call->a_args.lock.caller = system_utsname.nodename;
+ call->a_args.lock.caller = utsname()->nodename;
    call->a_args.lock.oh.len = lock->oh.len;

    /* set default data area */
diff --git a/fs/lockd/xdr.c b/fs/lockd/xdr.c
index f22a376..4eec051 100644
--- a/fs/lockd/xdr.c
+++ b/fs/lockd/xdr.c

```

```

@@ -516,7 +516,7 @@ nlmclt_decode_res(struct rpc_rqst *req,
    */
#define NLM_void_sz 0
#define NLM_cookie_sz 1+XDR_QUADLEN(NLM_MAXCOOKIELEN)
-#define NLM_caller_sz 1+XDR_QUADLEN(sizeof(system_utsname.nodename))
+#define NLM_caller_sz 1+XDR_QUADLEN(sizeof(utsname()->nodename))
#define NLM_netobj_sz 1+XDR_QUADLEN(XDR_MAX_NETOBJ)
/* #define NLM_owner_sz 1+XDR_QUADLEN(NLM_MAXOWNER) */
#define NLM_fhandle_sz 1+XDR_QUADLEN(NFS2_FHSIZE)
diff --git a/fs/nfs/nfsroot.c b/fs/nfs/nfsroot.c
index c0a754e..1d656a6 100644
--- a/fs/nfs/nfsroot.c
+++ b/fs/nfs/nfsroot.c
@@ -312,7 +312,7 @@ static int __init root_nfs_name(char *na
    /* Override them by options set on kernel command-line */
    root_nfs_parse(name, buf);

- cp = system_utsname.nodename;
+ cp = utsname()->nodename;
    if (strlen(buf) + strlen(cp) > NFS_MAXPATHLEN) {
        printk(KERN_ERR "Root-NFS: Pathname for remote directory too long.\n");
        return -1;
diff --git a/include/asm-i386/elf.h b/include/asm-i386/elf.h
index 4153d80..1b06c44 100644
--- a/include/asm-i386/elf.h
+++ b/include/asm-i386/elf.h
@@ -108,7 +108,7 @@ typedef struct user_fxsr_struct elf_fpxr
    For the moment, we have only optimizations for the Intel generations,
    but that could change... */

-#define ELF_PLATFORM (system_utsname.machine)
+#define ELF_PLATFORM (utsname()->machine)

#ifdef __KERNEL__
#define SET_PERSONALITY(ex, ibcs2) do { } while (0)
diff --git a/include/linux/lockd/lockd.h b/include/linux/lockd/lockd.h
index 995f89d..ac15b87 100644
--- a/include/linux/lockd/lockd.h
+++ b/include/linux/lockd/lockd.h
@@ -80,7 +80,7 @@ struct nlm_wait;
    */
    * Memory chunk for NLM client RPC request.
    */
-#define NLMCLNT_OHSIZE (sizeof(system_utsname.nodename)+10)
+#define NLMCLNT_OHSIZE (sizeof(utsname()->nodename)+10)
struct nlm_rqst {
    unsigned int a_flags; /* initial RPC task flags */
    struct nlm_host * a_host; /* host handle */

```

```

diff --git a/kernel/sys.c b/kernel/sys.c
index 0b6ec0e..bcaa48e 100644
--- a/kernel/sys.c
+++ b/kernel/sys.c
@@ -1671,7 +1671,7 @@ asmlinkage long sys_newuname(struct new_
    int errno = 0;

    down_read(&uts_sem);
- if (copy_to_user(name,&system_utsname,sizeof *name))
+ if (copy_to_user(name,utsname(),sizeof *name))
    errno = -EFAULT;
    up_read(&uts_sem);
    return errno;
@@ -1689,8 +1689,8 @@ asmlinkage long sys_sethostname(char __u
    down_write(&uts_sem);
    errno = -EFAULT;
    if (!copy_from_user(tmp, name, len)) {
- memcpy(system_utsname.nodename, tmp, len);
- system_utsname.nodename[len] = 0;
+ memcpy(utsname()->nodename, tmp, len);
+ utsname()->nodename[len] = 0;
    errno = 0;
    }
    up_write(&uts_sem);
@@ -1706,11 +1706,11 @@ asmlinkage long sys_gethostname(char __u
    if (len < 0)
    return -EINVAL;
    down_read(&uts_sem);
- i = 1 + strlen(system_utsname.nodename);
+ i = 1 + strlen(utsname()->nodename);
    if (i > len)
    i = len;
    errno = 0;
- if (copy_to_user(name, system_utsname.nodename, i))
+ if (copy_to_user(name, utsname()->nodename, i))
    errno = -EFAULT;
    up_read(&uts_sem);
    return errno;
@@ -1735,8 +1735,8 @@ asmlinkage long sys_setdomainname(char _
    down_write(&uts_sem);
    errno = -EFAULT;
    if (!copy_from_user(tmp, name, len)) {
- memcpy(system_utsname.domainname, tmp, len);
- system_utsname.domainname[len] = 0;
+ memcpy(utsname()->domainname, tmp, len);
+ utsname()->domainname[len] = 0;
    errno = 0;
    }

```

```

up_write(&uts_sem);
diff --git a/net/ipv4/ipconfig.c b/net/ipv4/ipconfig.c
index cb8a92f..b9bdf0f 100644
--- a/net/ipv4/ipconfig.c
+++ b/net/ipv4/ipconfig.c
@@ -806,7 +806,7 @@ static void __init ic_do_bootp_ext(u8 *e
    }
    break;
    case 12: /* Host name */
-   ic_bootp_string(system_utsname.nodename, ext+1, *ext, __NEW_UTS_LEN);
+   ic_bootp_string(utsname()->nodename, ext+1, *ext, __NEW_UTS_LEN);
    ic_host_name_set = 1;
    break;
    case 15: /* Domain name (DNS) */
@@ -817,7 +817,7 @@ static void __init ic_do_bootp_ext(u8 *e
    ic_bootp_string(root_server_path, ext+1, *ext, sizeof(root_server_path));
    break;
    case 40: /* NIS Domain name (_not_ DNS) */
-   ic_bootp_string(system_utsname.domainname, ext+1, *ext, __NEW_UTS_LEN);
+   ic_bootp_string(utsname()->domainname, ext+1, *ext, __NEW_UTS_LEN);
    break;
    }
}
@@ -1369,7 +1369,7 @@ static int __init ip_auto_config(void)
    printk(", mask=%u.%u.%u.%u", NIPQUAD(ic_netmask));
    printk(", gw=%u.%u.%u.%u", NIPQUAD(ic_gateway));
    printk(",\n  host=%s, domain=%s, nis-domain=%s",
-   system_utsname.nodename, ic_domain, system_utsname.domainname);
+   utsname()->nodename, ic_domain, utsname()->domainname);
    printk(",\n  bootserver=%u.%u.%u.%u", NIPQUAD(ic_servaddr));
    printk(", rootserver=%u.%u.%u.%u", NIPQUAD(root_server_addr));
    printk(", rootpath=%s", root_server_path);
@@ -1479,11 +1479,11 @@ static int __init ip_auto_config_setup(c
    case 4:
        if ((dp = strchr(ip, '.')) {
            *dp++ = '\0';
-       strcpy(system_utsname.domainname, dp,
-       sizeof(system_utsname.domainname));
+       strcpy(utsname()->domainname, dp,
+       sizeof(utsname()->domainname));
        }
-       strcpy(system_utsname.nodename, ip,
-       sizeof(system_utsname.nodename));
+       strcpy(utsname()->nodename, ip,
+       sizeof(utsname()->nodename));
        ic_host_name_set = 1;
        break;
    case 5:

```

```
diff --git a/net/sunrpc/clnt.c b/net/sunrpc/clnt.c
index aa8965e..1d00e41 100644
--- a/net/sunrpc/clnt.c
+++ b/net/sunrpc/clnt.c
@@ -176,10 +176,10 @@ rpc_new_client(struct rpc_xprt *xprt, ch
 }

 /* save the nodename */
- clnt->cl_nodelen = strlen(system_utsname.nodename);
+ clnt->cl_nodelen = strlen(utsname()->nodename);
   if (clnt->cl_nodelen > UNX_MAXNODENAME)
     clnt->cl_nodelen = UNX_MAXNODENAME;
- memcpy(clnt->cl_nodename, system_utsname.nodename, clnt->cl_nodelen);
+ memcpy(clnt->cl_nodename, utsname()->nodename, clnt->cl_nodelen);
   return clnt;

out_no_auth:
--
1.1.6
```
