
Subject: [RFC][PATCH 4/5] utsname namespaces: sysctl hack

Posted by [serue](#) on Fri, 07 Apr 2006 18:36:00 GMT

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Sysctl uts patch. This clearly will need to be done another way, but since sysctl itself needs to be container aware, 'the right thing' is a separate patchset.

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

```
kernel/sysctl.c | 38 ++++++-----
1 files changed, 28 insertions(+), 10 deletions(-)
```

```
40f7e1320c82efb6e875fc3bf44408cdfd093f21
```

```
diff --git a/kernel/sysctl.c b/kernel/sysctl.c
```

```
index e82726f..c2b18ef 100644
```

```
--- a/kernel/sysctl.c
```

```
+++ b/kernel/sysctl.c
```

```
@@ -233,8 +233,8 @@ static ctl_table kern_table[] = {
{
```

```
    .ctl_name = KERN_OSTYPE,
    .procname = "ostype",
-   .data = system_utsname.sysname,
-   .maxlen = sizeof(system_utsname.sysname),
+   .data = init_uts_ns.name.sysname,
+   .maxlen = sizeof(init_uts_ns.name.sysname),
    .mode = 0444,
    .proc_handler = &proc_doutsstring,
    .strategy = &sysctl_string,
```

```
@@ -242,8 +242,8 @@ static ctl_table kern_table[] = {
{
```

```
    .ctl_name = KERN_OSRELEASE,
    .procname = "osrelease",
-   .data = system_utsname.release,
-   .maxlen = sizeof(system_utsname.release),
+   .data = init_uts_ns.name.release,
+   .maxlen = sizeof(init_uts_ns.name.release),
    .mode = 0444,
    .proc_handler = &proc_doutsstring,
    .strategy = &sysctl_string,
```

```
@@ -251,8 +251,8 @@ static ctl_table kern_table[] = {
{
```

```
    .ctl_name = KERN_VERSION,
    .procname = "version",
-   .data = system_utsname.version,
-   .maxlen = sizeof(system_utsname.version),
+   .data = init_uts_ns.name.version,
+   .maxlen = sizeof(init_uts_ns.name.version),
```

```

.mode = 0444,
.proc_handler = &proc_doutsstring,
.strategy = &sysctl_string,
@@ -260,8 +260,8 @@ static ctl_table kern_table[] = {
{
.ctl_name = KERN_NODENAME,
.procname = "hostname",
- .data = system_utsname.nodename,
- .maxlen = sizeof(system_utsname.nodename),
+ .data = init_uts_ns.name.nodename,
+ .maxlen = sizeof(init_uts_ns.name.nodename),
.mode = 0644,
.proc_handler = &proc_doutsstring,
.strategy = &sysctl_string,
@@ -269,8 +269,8 @@ static ctl_table kern_table[] = {
{
.ctl_name = KERN_DOMAINNAME,
.procname = "domainname",
- .data = system_utsname.domainname,
- .maxlen = sizeof(system_utsname.domainname),
+ .data = init_uts_ns.name.domainname,
+ .maxlen = sizeof(init_uts_ns.name.domainname),
.mode = 0644,
.proc_handler = &proc_doutsstring,
.strategy = &sysctl_string,
@@ -1619,6 +1619,24 @@ static int proc_doutsstring(ctl_table *t
{
int r;

+ switch (table->ctl_name) {
+ case KERN_OSTYPE:
+ table->data = utsname()->sysname;
+ break;
+ case KERN_OSRELEASE:
+ table->data = utsname()->release;
+ break;
+ case KERN_VERSION:
+ table->data = utsname()->version;
+ break;
+ case KERN_NODENAME:
+ table->data = utsname()->nodename;
+ break;
+ case KERN_DOMAINNAME:
+ table->data = utsname()->domainname;
+ break;
+ }
+
if (!write) {

```

```
down_read(&uts_sem);  
r=proc_dostring(table,0,filp,buffer,lenp, ppos);
```

```
--
```

1.2.4
