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>
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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
```