Subject: [PATCH] Make initializer for statically declared krefs
Posted by Pavel Emelianov on Mon, 01 Oct 2007 10:27:24 GMT
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Since the struct kref already has the _get, _put and _init
routines, this seems useful to have an initializer for those
statically declared (like for atomic_t or spinlock_t).

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

```
diff --git a/include/linux/kref.h b/include/linux/kref.h
index 6fee353..a84c582 100644
--- a/include/linux/kref.h
+++ b/include/linux/kref.h
@@ -24,6 +24,8 @@ struct kref {
  atomic_t refcount;
 };

+#define INIT_KREF(count) { .refcount = ATOMIC_INIT(count), }
+
 void kref_init(struct kref *kref);
 void kref_get(struct kref *kref);
 int kref_put(struct kref *kref, void (*release) (struct kref *kref));
diff --git a/init/version.c b/init/version.c
index 9d17d70..53d2ca7 100644
--- a/init/version.c
+++ b/init/version.c
@@ -19,9 +19,7 @@
 int version_string(LINUX_VERSION_CODE);

 struct uts_namespace init_uts_ns = {
- .kref = {
-  .refcount = ATOMIC_INIT(2),
- },
+ .kref = INIT_KREF(2),
  .name = {
   .sysname = UTS_SYSNAME,
   .nodename = UTS_NODENAME,
diff --git a/ipc/util.c b/ipc/util.c
index fd29246..526aa14 100644
--- a/ipc/util.c
+++ b/ipc/util.c
@@ -45,9 +45,7 @@ struct ipc_proc_iface {
 };

 struct ipc_namespace init_ipc_ns = {
```

```
- .kref = {
-  .refcount = ATOMIC_INIT(2),
- },
+ .kref = INIT_KREF(2),
 };

 static struct ipc_namespace *clone_ipc_ns(struct ipc_namespace *old_ns)
diff --git a/kernel/pid.c b/kernel/pid.c
index d7388d7..e9d3ff1 100644
--- a/kernel/pid.c
+++ b/kernel/pid.c
@@ -69,9 +69,7 @@ static inline int mk_pid(struct pid_name
  * the scheme scales to up to 4 million PIDs, runtime.
  */
 struct pid_namespace init_pid_ns = {
- .kref = {
-  .refcount       = ATOMIC_INIT(2),
- },
+ .kref = INIT_KREF(2),
  .pidmap = {
   [ 0 ... PIDMAP_ENTRIES-1] = { ATOMIC_INIT(BITS_PER_PAGE), NULL }
  },
diff --git a/kernel/user_namespace.c b/kernel/user_namespace.c
index 7af90fc..33d21e0 100644
--- a/kernel/user_namespace.c
+++ b/kernel/user_namespace.c
@@ -11,9 +11,7 @@
 #include <linux/user_namespace.h>

 struct user_namespace init_user_ns = {
- .kref = {
-  .refcount = ATOMIC_INIT(2),
- },
+ .kref = INIT_KREF(2),
  .root_user = &root_user,
 };
```

Subject: Re: [PATCH] Make initializer for statically declared krefs
Posted by serue on Mon, 01 Oct 2007 13:19:21 GMT

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Quoting Pavel Emelyanov (xemul@openvz.org):
> Since the struct kref already has the _get, _put and _init
> routines, this seems useful to have an initializer for those
> statically declared (like for atomic_t or spinlock_t).
>
> Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

Sure.

Acked-by: Serge Hallyn <serue@us.ibm.com>

```
> ---
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>
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>   .root_user = &root_user,
> };