
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>

```
> ---
>
> 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,
> };

```
