
Subject: [PATCH 1/2] SUNRPC: register RPC stats /proc entries in passed network namespace context

Posted by [Stanislav Kinsbursky](#) on Tue, 06 Dec 2011 12:48:03 GMT

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This patch makes it possible to create NFS program entry ("/proc/net/rpc/nfs") in passed network namespace context instead of hard-coded "init_net".

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```
fs/nfs/inode.c      | 6 +++---
include/linux/sunrpc/stats.h | 8 ++++----
net/sunrpc/stats.c   | 15 ++++++++-----
3 files changed, 15 insertions(+), 14 deletions(-)
```

diff --git a/fs/nfs/inode.c b/fs/nfs/inode.c

index 98b2508..5cad6c5 100644

--- a/fs/nfs/inode.c

+++ b/fs/nfs/inode.c

```
@ @ -1623,14 +1623,14 @ @ static int __init init_nfs_fs(void)
    goto out0;
```

```
#ifdef CONFIG_PROC_FS
```

```
- rpc_proc_register(&nfs_rpcstat);
```

```
+ rpc_proc_register(&init_net, &nfs_rpcstat);
```

```
#endif
```

```
if ((err = register_nfs_fs()) != 0)
```

```
    goto out;
```

```
return 0;
```

```
out:
```

```
#ifdef CONFIG_PROC_FS
```

```
- rpc_proc_unregister("nfs");
```

```
+ rpc_proc_unregister(&init_net, "nfs");
```

```
#endif
```

```
nfs_destroy_directcache();
```

```
out0:
```

```
@ @ -1669,7 +1669,7 @ @ static void __exit exit_nfs_fs(void)
```

```
    nfs_dns_resolver_destroy();
```

```
    nfs_idmap_quit();
```

```
#ifdef CONFIG_PROC_FS
```

```
- rpc_proc_unregister("nfs");
```

```
+ rpc_proc_unregister(&init_net, "nfs");
```

```
#endif
```

```
nfs_cleanup_cb_ident_idr();
```

```
unregister_nfs_fs();
```

diff --git a/include/linux/sunrpc/stats.h b/include/linux/sunrpc/stats.h

index 680471d..f625b57 100644

```

--- a/include/linux/sunrpc/stats.h
+++ b/include/linux/sunrpc/stats.h
@@ -58,8 +58,8 @@ void  rpc_modcount(struct inode *, int);
#endif

#ifdef CONFIG_PROC_FS
-struct proc_dir_entry * rpc_proc_register(struct rpc_stat *);
-void  rpc_proc_unregister(const char *);
+struct proc_dir_entry * rpc_proc_register(struct net *, struct rpc_stat *);
+void  rpc_proc_unregister(struct net *, const char *);
void  rpc_proc_zero(struct rpc_program *);
struct proc_dir_entry * svc_proc_register(struct svc_stat *,
    const struct file_operations *);
@@ -69,8 +69,8 @@ void  svc_seq_show(struct seq_file *,
    const struct svc_stat *);
#else

-static inline struct proc_dir_entry *rpc_proc_register(struct rpc_stat *s) { return NULL; }
-static inline void rpc_proc_unregister(const char *p) {}
+static inline struct proc_dir_entry *rpc_proc_register(struct net *, struct rpc_stat *s) { return NULL;
}
+static inline void rpc_proc_unregister(struct net *, (const char *p) {}
static inline void rpc_proc_zero(struct rpc_program *p) {}

static inline struct proc_dir_entry *svc_proc_register(struct svc_stat *s,
diff --git a/net/sunrpc/stats.c b/net/sunrpc/stats.c
index 80df89d..f0f6e7c 100644
--- a/net/sunrpc/stats.c
+++ b/net/sunrpc/stats.c
@@ -213,28 +213,29 @@ EXPORT_SYMBOL_GPL(rpc_print_iostats);
 * Register/unregister RPC proc files
 */
static inline struct proc_dir_entry *
-do_register(const char *name, void *data, const struct file_operations *fops)
+do_register(struct net *net, const char *name, void *data,
+    const struct file_operations *fops)
{
    struct sunrpc_net *sn;

    dprintk("RPC:    registering /proc/net/rpc/%s\n", name);
- sn = net_generic(&init_net, sunrpc_net_id);
+ sn = net_generic(net, sunrpc_net_id);
    return proc_create_data(name, 0, sn->proc_net_rpc, fops, data);
}

struct proc_dir_entry *
-rpc_proc_register(struct rpc_stat *statp)
+rpc_proc_register(struct net *net, struct rpc_stat *statp)

```

```

{
- return do_register(statp->program->name, statp, &rpc_proc_fops);
+ return do_register(net, statp->program->name, statp, &rpc_proc_fops);
}
EXPORT_SYMBOL_GPL(rpc_proc_register);

void
-rpc_proc_unregister(const char *name)
+rpc_proc_unregister(struct net *net, const char *name)
{
    struct sunrpc_net *sn;

- sn = net_generic(&init_net, sunrpc_net_id);
+ sn = net_generic(net, sunrpc_net_id);
    remove_proc_entry(name, sn->proc_net_rpc);
}
EXPORT_SYMBOL_GPL(rpc_proc_unregister);
@@ -242,7 +243,7 @@ EXPORT_SYMBOL_GPL(rpc_proc_unregister);
struct proc_dir_entry *
svc_proc_register(struct svc_stat *statp, const struct file_operations *fops)
{
- return do_register(statp->program->pg_name, statp, fops);
+ return do_register(&init_net, statp->program->pg_name, statp, fops);
}
EXPORT_SYMBOL_GPL(svc_proc_register);

```
