
Subject: [RFC][PATCH 2/4]: Use interface to access allocated_ptys
Posted by [Sukadev Bhattiprolu](#) on Wed, 06 Feb 2008 05:10:27 GMT
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From: Sukadev Bhattiprolu <sukadev@us.ibm.com>
Subject: [RFC][PATCH 2/4]: Use interface to access allocated_ptys

In preparation for supporting multiple PTY namespaces, use an inline function to access the 'allocated_ptys' idr.

Changelog:

- Version 0: Based on earlier versions from Serge Hallyn and Matt Helsley.

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

fs/devpts/inode.c | 13 ++++++-----
1 file changed, 9 insertions(+), 4 deletions(-)

Index: linux-2.6.24/fs/devpts/inode.c

```
=====
--- linux-2.6.24.orig/fs/devpts/inode.c 2008-02-05 17:17:11.000000000 -0800
+++ linux-2.6.24/fs/devpts/inode.c 2008-02-05 17:30:52.000000000 -0800
@@ -28,6 +28,11 @@ extern int pty_limit; /* Config limit o
 static DEFINE_IDR(allocated_ptys);
 static DECLARE_MUTEX(allocated_ptys_lock);

+static inline struct idr *current_pts_ns_allocated_ptys(void)
+{
+ return &allocated_ptys;
+}
+
 static struct vfsmount *devpts_mnt;
 static struct dentry *devpts_root;

@@ -167,12 +172,12 @@ int devpts_new_index(void)
 int idr_ret;

 retry:
- if (!idr_pre_get(&allocated_ptys, GFP_KERNEL)) {
+ if (!idr_pre_get(current_pts_ns_allocated_ptys(), GFP_KERNEL)) {
 return -ENOMEM;
 }

 down(&allocated_ptys_lock);
- idr_ret = idr_get_new(&allocated_ptys, NULL, &index);
+ idr_ret = idr_get_new(current_pts_ns_allocated_ptys(), NULL, &index);
```

```

if (idr_ret < 0) {
    up(&allocated_ptys_lock);
    if (idr_ret == -EAGAIN)
@@ -181,7 +186,7 @@ retry:
}

if (index >= pty_limit) {
- idr_remove(&allocated_ptys, index);
+ idr_remove(current_pts_ns_allocated_ptys(), index);
    up(&allocated_ptys_lock);
    return -EIO;
}
@@ -192,7 +197,7 @@ retry:
void devpts_kill_index(int idx)
{
    down(&allocated_ptys_lock);
- idr_remove(&allocated_ptys, idx);
+ idr_remove(current_pts_ns_allocated_ptys(), idx);
    up(&allocated_ptys_lock);
}

```

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