

[patch 2/2] fs/devpts: use lib/parser

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-10/10119.html>

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Date: 10/31/04

To: akpm@osdl.org

Date: Sun, 31 Oct 2004 00:29:04 +0200

Hi.

Use lib/parser.c for parsing mount options (item from "2.6 should fix").

1 files changed, 49 insertions(+), 27 deletions(-)

Compile & boot tested.

Signed-off-by: Domen Puncer <domen@coderock.org>

```
---
 linux-2.6.10-rc1-max/fs/devpts/inode.c | 76 ++++++-----
 1 files changed, 49 insertions(+), 27 deletions(-)
diff -puN fs/devpts/inode.c~lib-parser-fs_devpts_inode fs/devpts/inode.c
--- linux-2.6.10-rc1/fs/devpts/inode.c~lib-parser-fs_devpts_inode      2004-10-24 17:06:16.00000
+++ linux-2.6.10-rc1-max/fs/devpts/inode.c      2004-10-24 17:06:16.000000000 +0200
@@ -19,6 +19,7 @@
 #include <linux/tty.h>
 #include <linux/devpts_fs.h>
 #include <linux/xattr.h>
+#include <linux/parser.h>

 #define DEVPTS_SUPER_MAGIC 0x1cd1

@@ -51,39 +52,60 @@ static struct {
     umode_t mode;
 } config = {.mode = 0600};

+enum {
+    Opt_uid, Opt_gid, Opt_mode,
+    Opt_err
+};
+
+static match_table_t tokens = {
+    {Opt_uid, "uid=%u"},
+    {Opt_gid, "gid=%u"},
+    {Opt_mode, "mode=%o"},
+    {Opt_err, NULL}
+};
+
+static int devpts_remount(struct super_block *sb, int *flags, char *data)
+{
-    int setuid = 0;
-    int setgid = 0;
```

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```

-     uid_t uid = 0;
-     gid_t gid = 0;
-     umode_t mode = 0600;
-     char *this_char;
-
-     this_char = NULL;
-     while ((this_char = strsep(&data, ",")) != NULL) {
-         int n;
-         char dummy;
-         if (!*this_char)
+     char *p;
+
+     config.setuid = 0;
+     config.setgid = 0;
+     config.uid = 0;
+     config.gid = 0;
+     config.mode = 0600;
+
+     while ((p = strsep(&data, ",")) != NULL) {
+         substring_t args[MAX_OPT_ARGS];
+         int token;
+         int option;
+
+         if (!*p)
+             continue;
-         if (sscanf(this_char, "uid=%i%c", &n, &dummy) == 1) {
-             setuid = 1;
-             uid = n;
-         } else if (sscanf(this_char, "gid=%i%c", &n, &dummy) == 1) {
-             setgid = 1;
-             gid = n;
-         } else if (sscanf(this_char, "mode=%o%c", &n, &dummy) == 1)
-             mode = n & ~S_IFMT;
-         else {
-             printk("devpts: called with bogus options\n");
+
+         token = match_token(p, tokens, args);
+         switch (token) {
+         case Opt_uid:
+             if (match_int(&args[0], &option))
+                 return -EINVAL;
+             config.uid = option;
+             config.setuid = 1;
+             break;
+         case Opt_gid:
+             if (match_int(&args[0], &option))
+                 return -EINVAL;
+             config.gid = option;
+             config.setgid = 1;
+             break;
+         case Opt_mode:
+             if (match_octal(&args[0], &option))
+                 return -EINVAL;
+             config.mode = option & ~S_IFMT;
+             break;
+         default:
+             printk(KERN_ERR "devpts: called with bogus options\n");
+             return -EINVAL;
+         }
+     }
-     config.setuid = setuid;
-     config.setgid = setgid;

```

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```
-     config.uid      = uid;
-     config.gid      = gid;
-     config.mode     = mode;

    return 0;
}
```

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