
Subject: [patch -mm 3/5] mqueue namespace : add get_sb_single_per_data()

Posted by [Cedric Le Goater](#) on Tue, 02 Oct 2007 08:46:11 GMT

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From: Cedric Le Goater <clg@fr.ibm.com>

This is a new helper routine very similar to get_sb_single() which uses the 'data' argument and the 's_fs_info' attribute of the super_block to create a single super_block per 'data' value.

if 'data' is a pointer to a namespace, it makes it easy to create a single super_block per namespace. This is something we need for the mqueue file system, and other single super_block internal file systems.

Dave, can you review this one to make sure the helper routine belongs to fs/super.c ?

Thanks

Signed-off-by: Cedric Le Goater <clg@fr.ibm.com>

```
fs/super.c      | 32 ++++++=====
include/linux/fs.h |  4 +++
2 files changed, 36 insertions(+)
```

Index: 2.6.23-rc8-mm2/fs/super.c

=====

```
--- 2.6.23-rc8-mm2.orig/fs/super.c
+++ 2.6.23-rc8-mm2/fs/super.c
@@ -853,6 +853,38 @@ int get_sb_single(struct file_system_type
```

EXPORT_SYMBOL(get_sb_single);

```
+static int compare_data(struct super_block *sb, void *data)
+{
+    return (void *)sb->s_fs_info == data;
+}
+
+int get_sb_single_per_data(struct file_system_type *fs_type,
+    int flags, void *data,
+    int (*fill_super)(struct super_block *, void *, int),
+    struct vfsmount *mnt)
+{
+    struct super_block *s;
+    int error;
+
```

```

+ s = sget(fs_type, compare_data, set_anon_super, data);
+ if (IS_ERR(s))
+ return PTR_ERR(s);
+ if (!s->s_root) {
+ s->s_flags = flags;
+ s->s_fs_info = data;
+ error = fill_super(s, data, flags & MS_SILENT ? 1 : 0);
+ if (error) {
+ up_write(&s->s_umount);
+ deactivate_super(s);
+ return error;
+ }
+ s->s_flags |= MS_ACTIVE;
+ }
+ do_remount_sb(s, flags, data, 0);
+ return simple_set_mnt(mnt, s);
+}
+EXPORT_SYMBOL(get_sb_single_per_data);
+
struct vfsmount *
vfs_kern_mount(struct file_system_type *type, int flags, const char *name, void *data)
{
Index: 2.6.23-rc8-mm2/include/linux/fs.h
=====
--- 2.6.23-rc8-mm2.orig/include/linux/fs.h
+++ 2.6.23-rc8-mm2/include/linux/fs.h
@@ -1437,6 +1437,10 @@ extern int get_sb_single(struct file_sys
int flags, void *data,
int (*fill_super)(struct super_block *, void *, int),
struct vfsmount *mnt);
+extern int get_sb_single_per_data(struct file_system_type *fs_type,
+ int flags, void *data,
+ int (*fill_super)(struct super_block *, void *, int),
+ struct vfsmount *mnt);
extern int get_sb_nodev(struct file_system_type *fs_type,
int flags, void *data,
int (*fill_super)(struct super_block *, void *, int),

```

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