

Re: [PATCH] Open Firmware device tree virtual filesystem

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-12/msg08130.html>

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 - *Date:* Sun, 31 Dec 2006 15:24:15 +0200
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On 12/31/06, Mitch Bradley <wmb@xxxxxxxxxxxxxxxx> wrote:

```
diff ---git a/arch/i386/kernel/ofw_fs.c b/arch/i386/kernel/ofw_fs.c
new file mode 100644
index 0000000..30ca359
--- /dev/null
+++ b/arch/i386/kernel/ofw_fs.c
@@ -0,0 +1,261 @@
+/* 1275 in little-endian ASCII (for IEEE 1275 - the Open Firmware Standard) */
+#define OFWFS_MAGIC 0x35373231
```

Please put this in <linux/magic.h>

On 12/31/06, Mitch Bradley <wmb@xxxxxxxxxxxxxxxx> wrote:

```
+ case S_IFREG:
+ inode->i_fop = &ofwfs_property_operations;
+ inode->i_bytes = ((struct propval *)data)->length;
+ inode->i_size = (loff_t)(((struct propval *)data)->length);
```

As you need the struct twice, use a local variable.

On 12/31/06, Mitch Bradley <wmb@xxxxxxxxxxxxxxxx> wrote:

```
+static int ofwfs_create_props(struct super_block *sb, struct dentry *dir,
+ phandle node)
+{
+ char proptype[32];
+ int security, len;
+ struct propval *propval;
+ int ret = 0;
+ int flag;
+
+ proptype[0] = '\0';
+
+ while ((void)calloc("nextprop", 3, 1, node, proptype, proptype,
```

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```
+ &flag), flag == 1) {
```

Please do the call within the loop body and use an explicit break.

```
+ security = strncmp(propname, "security-", 9) == 0;
+ len = 0;
```

Redundant assignment, no?

```
+ if (!security)
+ (void)callofw("getproplen", 2, 1, node, propname, &len);
```

We don't use void casts to suppress return value in Linux. You can just drop it (elsewhere too).

On 12/31/06, Mitch Bradley <wmb@xxxxxxxxxxxx> wrote:

```
+out:
+ if (ret) {
+ WARN_ON(1);
+ /*
+ ofwfs_remove_props(sb, dir);
+ */
+ }
```

Hmm?

On 12/31/06, Mitch Bradley <wmb@xxxxxxxxxxxx> wrote:

```
+static int __init ofwfs_init(void)
+{
+ int ret;
+
+ ret = register_filesystem(&ofwfs_type);
+ if (ret)
+ return ret;
+
+ kern_mount(&ofwfs_type);
```

kern_mount can fail so you'd better do IS_ERR/PTR_ERR here.

```
diff --git a/include/asm-i386/callofw.h b/include/asm-i386/callofw.h
new file mode 100644
```

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```
index 0000000..594cb63
--- /dev/null
+++ b/include/asm-i386/callofw.h
+#include <linux/types.h>
+
+typedef void *phandle;
```

The typedef seems useless and confusing at best. Can we drop it?

—

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