

BUG in Linux 2.6.16/2.6.16.1 (compilation failure of third party software)

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-03/msg09657.html>

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Paragon_NTFS_3.x.v5.1 fails to compile (with gcc v3.4.3) with the following errors:

```
gcc -DMODULE -fshort-wchar -DUFSD_NTFS=1 -DUFSD_NTFS_SECURITY
-DUFSD_NTFS_OBJECTID -DUFSD_NTFS_WRITE_ENABLE -DNDEBUG -DUFSD_DEVICE=ufsd
-DUFSD_READONLY=0 -DKBUILD_BASENAME=_ufsdrvfs_ -include fs_conf.h -pipe -Wall
-fno-exceptions -Wno-multichar -Wstrict-prototypes -Wno-unknown-pragmas
-mpreferred-stack-boundary=2 -march=k8 -I /usr/src/linux/include/asm/mach-default -g0 -O2
-fomit-frame-pointer -fno-strict-aliasing -fno-common -c -I /usr/src/linux/include -I "/include"
-I/include ufsdrvfs.c -o objfre/vfs/ufsdrvfs.o
In file included from /usr/src/linux/include/linux/rwsem.h:27,
from /usr/src/linux/include/asm/semaphore.h:42,
from /usr/src/linux/include/linux/sched.h:20,
from /usr/src/linux/include/linux/module.h:10,
from ufsdrvfs.c:30:
/usr/src/linux/include/asm/rwsem.h: In function `__down_read':
/usr/src/linux/include/asm/rwsem.h:105: error: syntax error before "_ufsdrvfs_"
/usr/src/linux/include/asm/rwsem.h: In function `__down_write':
/usr/src/linux/include/asm/rwsem.h:157: error: syntax error before "_ufsdrvfs_"
/usr/src/linux/include/asm/rwsem.h: In function `__up_read':
/usr/src/linux/include/asm/rwsem.h:194: error: syntax error before "_ufsdrvfs_"
/usr/src/linux/include/asm/rwsem.h:188: warning: unused variable `tmp'
/usr/src/linux/include/asm/rwsem.h: In function `__up_write':
/usr/src/linux/include/asm/rwsem.h:220: error: syntax error before "_ufsdrvfs_"
/usr/src/linux/include/asm/rwsem.h: In function `__downgrade_write':
/usr/src/linux/include/asm/rwsem.h:245: error: syntax error before "_ufsdrvfs_"
In file included from /usr/src/linux/include/linux/sched.h:20,
from /usr/src/linux/include/linux/module.h:10,
from ufsdrvfs.c:30:
/usr/src/linux/include/asm/semaphore.h: In function `down':
/usr/src/linux/include/asm/semaphore.h:105: error: syntax error before "_ufsdrvfs_"
/usr/src/linux/include/asm/semaphore.h: In function `down_interruptible':
/usr/src/linux/include/asm/semaphore.h:130: error: syntax error before "_ufsdrvfs_"
/usr/src/linux/include/asm/semaphore.h: In function `down_trylock':
/usr/src/linux/include/asm/semaphore.h:155: error: syntax error before "_ufsdrvfs_"
/usr/src/linux/include/asm/semaphore.h: In function `up':
/usr/src/linux/include/asm/semaphore.h:179: error: syntax error before "_ufsdrvfs_"
ufsdrvfs.c: In function `ufsd_readdir':
```

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```
ufsdrvfs.c:864: warning: implicit declaration of function `update_atime'
ufsdrvfs.c: At top level:
ufsdrvfs.c:2219: warning: initialization from incompatible pointer type
make: *** [objfre/vfs/ufsdrvfs.o] Erreur 1
```

I tracked down the problem to a patch of include/linux/spinlock.h which was introduced somewhere in 2.6.16:

```
diff -urN linux-2.6.15/include/linux/spinlock.h linux-2.6.16.1/include/linux/spinlock.h
```

gives:

```
--- linux-2.6.15/include/linux/spinlock.h 2006-03-28 19:52:29.000000000 +0200
+++ linux-2.6.16.1/include/linux/spinlock.h 2006-03-24 19:55:28.000000000 +0100
@@ -59,8 +59,7 @@
/*
 * Must define these before including other files, inline functions need them
 */
-#define LOCK_SECTION_NAME \
- ".text.lock." __stringify(KBUILD_BASENAME)
+#define LOCK_SECTION_NAME ".text.lock."KBUILD_BASENAME

#define LOCK_SECTION_START(extra) \
".subsection 1\n\t" \
```

Reverting this patch fixes the compilation problem.

Thierry Godefroy.

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