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Subject: [patch 01/22] document nlink function  
Posted by [Cedric Le Goater](#) on Thu, 07 Jun 2007 15:25:28 GMT  
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From: Dave Hansen <[hansendc@us.ibm.com](mailto:hansendc@us.ibm.com)>

These should have been documented from the beginning. Fix it.

Signed-off-by: Dave Hansen <[hansendc@us.ibm.com](mailto:hansendc@us.ibm.com)>

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```
include/linux/fs.h | 27 ++++++-----+
1 file changed, 27 insertions(+)
```

Index: 2.6.22-rc4-mm2-robindmount/include/linux/fs.h

```
=====
--- 2.6.22-rc4-mm2-robindmount.orig/include/linux/fs.h
+++ 2.6.22-rc4-mm2-robindmount/include/linux/fs.h
@@ -1403,6 +1403,14 @@ static inline void mark_inode_dirty_sync
     __mark_inode_dirty(inode, I_DIRTY_SYNC);
 }

+/**
+ * inc_nlink - directly increment an inode's link count
+ * @inode: inode
+ *
+ * This is a low-level filesystem helper to replace any
+ * direct filesystem manipulation of i_nlink. Currently,
+ * it is only here for parity with dec_nlink().
+ */
static inline void inc_nlink(struct inode *inode)
{
    inode->i_nlink++;
@@ -1414,11 +1422,30 @@ static inline void inode_inc_link_count(
    mark_inode_dirty(inode);
}

+/**
+ * drop_nlink - directly drop an inode's link count
+ * @inode: inode
+ *
+ * This is a low-level filesystem helper to replace any
+ * direct filesystem manipulation of i_nlink. In cases
+ * where we are attempting to track writes to the
+ * filesystem, a decrement to zero means an imminent
+ * write when the file is truncated and actually unlinked
+ * on the filesystem.
```

```
+ */
static inline void drop_nlink(struct inode *inode)
{
    inode->i_nlink--;
}

+/***
+ * clear_nlink - directly zero an inode's link count
+ * @inode: inode
+ *
+ * This is a low-level filesystem helper to replace any
+ * direct filesystem manipulation of i_nlink. See
+ * drop_nlink() for why we care about i_nlink hitting zero.
+ */
static inline void clear_nlink(struct inode *inode)
{
    inode->i_nlink = 0;
```

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Containers mailing list  
Containers@lists.linux-foundation.org  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

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