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>

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

Signed-off-by: Dave Hansen <hansendc@us.ibm.com>

---
 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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