## Subject: [Q] missing unused dentry in prune\_dcache()? Posted by vaverin on Wed, 25 Oct 2006 12:30:51 GMT

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Hello folks.

I would like to ask you clarify me one question in the the following patch:
http://linux.bkbits.net:8080/linux-2.6/gnupatch@449b144ecSF1 rYskg3q-SeR2vf88zg
# ChangeSet
# 2006/06/22 15:05:57-07:00 neilb@suse.de
# [PATCH] Fix dcache race during umount

# If prune\_dcache finds a dentry that it cannot free, it leaves it where it
# is (at the tail of the list) and exits, on the assumption that some other

However as far as I see this comment is not correct: when we cannot take s\_umount rw\_semaphore (for example because it was taken in do\_remount) this dentry is already extracted from dentry\_unused list and we do not add it into the list again. Therefore dentry will not be found by prune\_dcache() and shrink\_dcache\_sb() and will leave in memory very long time until the partition will be unmounted.

Am I probably err?

The patch adds this dentry into tail of the dentry\_unused list.

Signed-off-by: Vasily Averin <vvs@sw.ru>

# thread will be removing that dentry soon.

```
--- linux-2.6.19-rc3/fs/dcache.c.prdch 2006-10-25 16:09:19.000000000 +0400
+++ linux-2.6.19-rc3/fs/dcache.c 2006-10-25 16:08:20.000000000 +0400
@ @ -477,6 +477,8 @ @ static void prune_dcache(int count, stru
}
up_read(s_umount);
}
+ list_add_tail(&dentry->d_lru, &dentry_unused);
+ dentry_stat.nr_unused++;
spin_unlock(&dentry->d_lock);
/* Cannot remove the first dentry, and it isn't appropriate
* to move it to the head of the list, so give up, and try
```