Subject: Re: [PATCH] diskquota: 32bit quota tools on 64bit architectures
Posted by Arnd Bergmann on Sat, 21 Oct 2006 16:28:32 GMT
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On Friday 20 October 2006 08:10, Vasily Tarasov wrote:
> Christoph Hellwig wrote:
>
> <snip>
>
> > Please allocate the structure using compat_alloc_userspace and copy
> > with copy_in_user instead of the set_fs trick.
>
> <snip>
>
> Good idea, thank you for your tip, I'll do it.

I think it would be even better to integrate this into fs/quota.c
and get rid of the extra copy entirely. The only thing you need
to do differently in case of 32 bit Q_GETQUOTA is the size
of the copy_{from,to}_user.

On a related topic, I just noticed

```
typedef struct fs_qfilestat {
 __u64  qfs_ino; /* inode number */
 __u64  qfs_nblks; /* number of BBs 512-byte-blks */
 __u32  qfs_nextents; /* number of extents */
} fs_qfilestat_t;

typedef struct fs_quota_stat {
 __s8  qs_version; /* version number for future changes */
 __u16  qs_flags; /* XFS_QUOTA_{U,P,G}DQ_{ACCT,ENFD} */
 __s8  qs_pad;  /* unused */
 fs_qfilestat_t qs_uquota; /* user quota storage information */
 fs_qfilestat_t qs_gquota; /* group quota storage information */
 __u32  qs_incoredqs; /* number of dquots incore */
 __s32  qs_btimelimit;  /* limit for blks timer */
 __s32  qs_itimelimit;  /* limit for inodes timer */
 __s32  qs_rtbtimelimit;/* limit for rt blks timer */
 __u16  qs_bwarnlimit; /* limit for num warnings */
 __u16  qs_iwarnlimit; /* limit for num warnings */
} fs_quota_stat_t;
```

This one seems to have a more severe problem in x86_64 compat
mode. I haven't tried it, but isn't everything down from
gs_gquota aligned differently on i386?

Arnd <><