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 afilestat 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} */
  fs_qfilestat_t qs_uquota; /* user quota storage information */
fs_qfilestat_t qs_qquota; /* group quota storage information */
u32 as incoredas; /* number of dauots incore */
__s32 qs_btimelimit; /* limit for blks timer */
s32 gs itimelimit; /* limit for inodes timer */
 s32 gs rtbtimelimit;/* limit for rt blks timer */
__u16 qs_bwarnlimit; /* limit for num warnings */
 u16 gs 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?
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Arnd <><