
Subject: Re: [PATCH] diskquota: 32bit quota tools on 64bit architectures

Posted by [Mikael Pettersson](#) on Fri, 15 Jun 2007 10:03:57 GMT

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On Fri, 15 Jun 2007 13:01:48 +0400, Vasily Tarasov wrote:

> OpenVZ Linux kernel team has discovered the problem
> with 32bit quota tools working on 64bit architectures.
> In 2.6.10 kernel sys32_quotactl() function was replaced by sys_quotactl() with
> the comment "sys_quotactl seems to be 32/64bit clean, enable it for 32bit"
> However this isn't right. Look at if_dqblk structure:

Your patch only converts ia32 on x86-64 or ia64.

What about ppc32-on-ppc64 and sparc32-on-sparc64?

And, I guess, mips32-on-mips64?

> --- linux-2.6.22-rc4-fixed/fs/quota.c.orig 2007-06-14 15:55:26.000000000 +0400

> +++ linux-2.6.22-rc4-fixed/fs/quota.c 2007-06-14 19:50:13.000000000 +0400

...

> + #if defined(CONFIG_X86_64) || defined(CONFIG_IA64)

> + /*

> + * This code works only for 32 bit quota tools over 64 bit OS (x86_64, ia64)

> + * and is necessary due to alignment problems.

> + */

The #ifdef looks way too arch-specific. And isn't there a shared compat.c module somewhere that this should go into?

/Mikael
