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

Posted by [Mikael Pettersson](#) on Fri, 15 Jun 2007 11:08:11 GMT

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On Fri, 15 Jun 2007 12:43:01 +0200, Arnd Bergmann wrote:

> On Friday 15 June 2007, Mikael Pettersson wrote:

> > > --- linux-2.6.22-rc4-fixed/fs/quota.c.orig=A0=A0=A0=A02007-06-14 15:55:=

> 26.0000000000 +0400

> > > +++ linux-2.6.22-rc4-fixed/fs/quota.c=A02007-06-14 19:50:13.0000000000 +=

> 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.

> > > + */

> > =20

> > The #ifdef looks way too arch-specific. And isn't there a shared

> > compat.c module somewhere that this should go into?

> > =20

>

> Only x86_64 and ia64 have this particular problem, the other architectures,

> and hopefully all future 64 bit platforms with 32 bit user space use

> the same alignment rules in elf32 and elf64.

Ah yes, alignof(u64) is the same in 32- and 64-bit modes on !x86,
thus they don't have a problem here.

Thanks for explaining that. I consider this is an essential
piece of information that should be included in the patch.
(In a comment in the code, not buried in some commit log.)

/Mikael
