
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:=
> 26.000000000 +0400

> > > +++ linux-2.6.22-rc4-fixed/fs/quota.c=A02007-06-14 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.`

> > > +`*/`

> > > =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
