

---

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

Posted by [Arnd Bergmann](#) on Fri, 15 Jun 2007 10:43:01 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On Friday 15 June 2007, Mikael Pettersson wrote:

```
> ...
> > +#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?
>
```

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.

Still, the patch should be converted to use the `compat_u64` type and not add an `'attribute((packed))'` so that you `_can_` use the same code on all architectures. See my 'Introduce `compat_u64` and `compat_s64` types' patch that I just posted in another thread.

Arnd <><

---