Subject: Re: [PATCH] diskquota: 32bit quota tools on 64bit architectures
Posted by Vasily Tarasov on Fri, 15 Jun 2007 10:41:49 GMT
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You can find a half-year back discussions of this patch:

First attempt: http://lkml.org/lkml/2006/10/19/123
Second attempt: http://lkml.org/lkml/2006/10/25/57

I think they will answer your questions.

Thank you,
Vasily

On Fri, 2007-06-15 at 12:03 +0200, Mikael Pettersson wrote:
> 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