Subject: Re: [PATCH 1/2] iptables 32bit compat layer Posted by Andi Kleen on Mon, 20 Feb 2006 21:23:25 GMT

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Mishin Dmitry <dim@openvz.org> writes:

```
> Hello,
```

>

- > This patch set extends current iptables compatibility layer in order to get
- > 32bit iptables to work on 64bit kernel. Current layer is insufficient
- > due to alignment checks both in kernel and user space tools.

_

> This patch introduces base compatibility interface for other ip_tables modules

Nice. But some issues with the implementation

```
+#if defined(CONFIG_X86_64)
+#define is_current_32bits() (current_thread_info()->flags & _TIF_IA32)
```

This should be is_compat_task(). And we don't do such ifdefs in generic code. And what you actually need here is a is_compat_task_with_funny_u64_alignment() (better name sought)

So I would suggest you add macros for that to the ia64 and x86-64 asm/compat.hs and perhaps a ARCH_HAS_FUNNY_U64_ALIGNMENT #define in there.

```
+ ret = 0:
```

- + switch (convert) {
- + case COMPAT TO USER:
- + pt = (struct ipt entry target *)target;

etc. that looks ugly. why can't you just define different functions for that? We don't really need in kernel ioctl

```
+#ifdef CONFIG COMPAT
```

- + down(&compat_ipt_mutex);
- +#endif

Why does it need an own lock?

Overall the implementation looks very complicated. Are you sure it wasn't possible to do this simpler?

-Andi