

Re: tuning for high connection rates

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- *From:* Philipp Wuensche <cryx-freebsd@xxxxxxx>
 - *Date:* Thu, 06 Dec 2007 00:02:59 +0100
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Mike Tanca wrote:

At 05:19 PM 12/5/2007, Philipp Wuensche wrote:

After switching to `net.isr.direct=0` and 346609775 good packets later, RX overruns haven't increased by one! Thats nice. Still interrupt is using up the CPU. I'm not quite sure if polling would help now!?

Polling is helpful to prevent livelock. Not sure if thats happening to you.

No problems with livelock, system is usable all the time.

What firewall (if any) are you using ? pf used to be a lot slower than ipfw.

We use pf. Disabling it at all gives no noticable performance boost because instead performance drops due to connections from networks we currently filter. Maybe ipfw is faster, we could try that but would like to use pf furthermore.

Another thing to try is to turn back on Fast Interrupt handling. I think its currently disabled.

In `if_em.h`, try adding

```
#define EM_FAST_IRQ 1
```

and then recompile the kernel or just driver.

Seems to be enabled by default on `freebsd7`, from our `if_em.h`:

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```
/* Set FAST handling on by default */  
#if __FreeBSD_version > 700000  
#define EM_FAST_IRQ  
#endif
```

greetings,
cryx

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