

RE: device polling takes more CPU hits??

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2004-07/0163.html>

From: Don Bowman (don_at_sandvine.com)

Date: 07/26/04

To: 'James' <haesu@towardex.com>, Don Bowman <don@sandvine.com>

Date: Mon, 26 Jul 2004 11:35:33 -0400

From: James [<mailto:haesu@towardex.com>]

```
> Hi Don,  
> root@r2.bos# sysctl kern.clockrate  
> kern.clockrate: { hz = 4000, tick = 250, tickadj = 1, profhz  
> = 1024, stathz = 128 }
```

That's a pretty high HZ, here's what i have:

```
kern.clockrate: { hz = 2500, tick = 400, tickadj = 1, profhz = 1024, stathz  
= 128 }
```

I have the same box spec as you, only with em (bge doesn't support polling, but it has its own interrupt coalescer that works... you can tune that in the if_bge.h I think, there's some comments). I'm doing ~800Kpps with polling. My polling params are below.

```
>  
> root@r2.bos# sysctl kern.polling  
> kern.polling.burst: 150  
> kern.polling.each_burst: 5  
> kern.polling.burst_max: 150  
> kern.polling.idle_poll: 1  
> kern.polling.poll_in_trap: 1  
> kern.polling.user_frac: 50  
> kern.polling.reg_frac: 20  
> kern.polling.short_ticks: 4909  
> kern.polling.lost_polls: 11464  
> kern.polling.pending_polls: 0  
> kern.polling.residual_burst: 0  
> kern.polling.handlers: 1  
> kern.polling.enable: 1  
> kern.polling.phase: 0  
> kern.polling.suspect: 10249  
> kern.polling.stalled: 3  
>  
> root@r2.bos# sysctl machdep.cpu_idle_hlt  
> machdep.cpu_idle_hlt: 1  
>
```

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kern.polling.burst: 1000
kern.polling.each_burst: 80
kern.polling.burst_max: 1000
kern.polling.idle_poll: 1
kern.polling.poll_in_trap: 0
kern.polling.user_frac: 5
kern.polling.reg_frac: 120
kern.polling.short_ticks: 29
kern.polling.lost_polls: 55004
kern.polling.pending_polls: 0
kern.polling.residual_burst: 0
kern.polling.handlers: 4
kern.polling.enable: 1
kern.polling.phase: 0
kern.polling.suspect: 50690
kern.polling.stalled: 25

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