

Routing performance HP-ML350

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Hello,

I've got a HP ML-350 machine, dual Xeon 3Ghz.

The system is running:

FreeBSD 6.1-RELEASE-p7

and has the following netcards and traffic:

2 x fxp cards
2 x em cards

each fxp card does about 80mbits traffic in/out

each em card does about 200 mbits traffic in/out (packets are routed from em0 to em1 --> cisco 3750 access layer equipment)

What I've noticed recently is that my CPU usage stays at about 80% when systat -ip 10 shows an average of 150-180 kpps being forwarded through this box.

With SMP enabled I had 85-90% CPU interrupt load so I disabled that.

Also I disabled the ipfw queueing code I had on one of the fxp cards (dynamic queueing with 6000 hash buckets - I have quite that many ip addresses and wanted each to hash to a different queue).

The load dropped to 60%.

Also I have polling disabled on the em cards (polling was causing packet drops with different Hz values; didn't try the idle poll as that used to crash my machine after a day or so of working a couple of months ago) and fast_forwarding enabled.

On the fxp cards I tried with both polling enabled/disabled.

I wanted to ask if there is any other tweaking possible to improve the routing performance.

Thanks,
Mihai

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