

Re: Network Stack Locking

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2004-05/0099.html>

From: Robert Watson (rwatson_at_freebsd.org)

Date: 05/25/04

Date: Tue, 25 May 2004 14:41:50 -0400 (EDT)

To: Luigi Rizzo <rizzo@icir.org>

On Tue, 25 May 2004, Luigi Rizzo wrote:

> On Tue, May 25, 2004 at 11:20:49AM -0700, Matthew Dillon wrote:
> ...
> > :Actually, this was the specific point I was making also :-). The question
> > :I was asking was about the depth of the message queues between protocol
> > :stack layers in actual measurements -- are you observing substantial
> > :coalescing between layers as a result of the queues at this point? I'm
> ...
> > It should also be noted that since today's processors are so damn fast,
> > actually maxing out the cpu before maxing out the PCI bus(es), at least
> > on a standard workstation, is difficult.
>
> that's where the soekris comes handy :) (yes i understand that much of
> the issues here are related to SMP, but there lot of evidence that a
> non-smp 5.x kernel is significantly slower than the equivalent 4.x code,
> even on heavy network i/o loads, so there is certainly something to
> clean up there too).

Happily, I'm well endowed with old and crufty hardware when it comes to UP. That said, it's hard to find a nice middle ground with SMP -- even relatively slow boxes can typically can max out 32-bit PCI, so you need to go with 64-bit if you want to not have that be the bottleneck for gig-E.

Robert N M Watson FreeBSD Core Team, TrustedBSD Projects
robert@fledge.watson.org Senior Research Scientist, McAfee Research

freebsd-arch@freebsd.org mailing list

<http://lists.freebsd.org/mailman/listinfo/freebsd-arch>

To unsubscribe, send any mail to "freebsd-arch-unsubscribe@freebsd.org"