

Re: [RFC] Port of DfBSDs new IP Checksum Code

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2005-08/0042.html>

From: Gordon Bergling (*gbergling_at_0xfce3.net*)

Date: 08/06/05

Date: Sat, 06 Aug 2005 17:33:54 +0200

To: Bruce M Simpson <bms@spc.org>

Hi Bruce,

Bruce M Simpson wrote:

>On Sat, Aug 06, 2005 at 01:43:29PM +0200, Gordon Bergling wrote:

>

>

>>I have ported the new IP Checksum Code from DragonflyBSD to FreeBSD.

>>I have a patch available at

>><http://generic.0xfce3.net/freebsd/ipchecksum/20050805-ipchecksum.patch>

>>

>>

>

>There are inline i386 instructions in a machine-independent header; is this

>intentional? Also the `asm_ones32()` code seems to exist only for i386.

>

>

I can't say something about the internals of the rework of checksum code. I have the commit messages on the hand, but I can't find something related.

>Without support for other platforms, and some cleanup, I don't think that

>the patch can be committed as is, sadly.

>

>

As far as I understand the commit messages [1 - 3] correctly the new code should be machine independent.

What cleanup do you mean?

>I do like the general idea of rewriting `in_cksum()` to take advantage of

>branch prediction logic in modern microprocessors, however.

>

>

I am willing to spend more time on this and, if anyone could point me to the right direction regarding the next steps to get this into the tree.

freebsd-net: Re: [RFC] Port of DfBSDs new IP Checksum Code

regards,

Gordon

[1] <http://leaf.dragonflybsd.org/mailarchive/commits/2004-02/msg00187.html>

[2] <http://leaf.dragonflybsd.org/mailarchive/commits/2004-02/msg00198.html>

[3] <http://leaf.dragonflybsd.org/mailarchive/commits/2004-02/msg00200.html>

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