

Subject: OFFICIAL COMMENT: Skein
From: Bruce Schneier <schneier@schneier.com>
Date: Thu, 19 Feb 2009 10:28:26 -0500
To: Multiple recipients of list <hash-forum@nist.gov>

In our Skein paper, we reference an unpublished paper detailing Skein's proofs of security.

We have posted a draft of that paper on the Skein website:

<http://www.skein-hash.info/sites/default/files/skein-proofs.pdf>

Bruce

I had sent this message to the forum in January, but we wanted to make sure it was an "official" comment on the NIST web site, so here it is again:

Just a note that we now have Skein-512 running at 20 clks/byte on a Core 2 Duo CPU in 32-bit code, using the SSE2 instruction set and registers. Because the SSE2 registers are in size, this approach can actually perform two different Threefish/Skein blocks in parallel (i.e., ~10 clks/byte!), which could be quite useful for counter mode or tree hash. Thanks to Randall Farmer for developing this code.

In 64-bit CPU code, straight C is still considerably faster than using SSE2.

See the Skein web page for details: <http://www.skein-hash.info/>

Doug Whiting

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From: hash-forum@nist.gov on behalf of Jon Callas [jon@pgpeng.com]
Sent: Monday, May 11, 2009 12:49 PM
To: Multiple recipients of list
Subject: OFFICIAL COMMENT: Skein

Our proofs paper is finally up at:

<<http://www.skein-hash.info/sites/default/files/skein-proofs.pdf>>

Jon

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