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Re: crush: straw is dead, long live straw2

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- *Subject:* Re: crush: straw is dead, long live straw2
- *From:* Joe Landman <joe.landman@xxxxxxxxx>
- *Date:* Fri, 12 Dec 2014 13:18:57 -0500
- *Cc:* Thorsten Behrens <tbehrens@xxxxxxxxx>, ceph-devel@xxxxxxxxxxxxxxxxxxxxx
- *In-reply-to:* <alpine.DEB.2.00.1412120814050.23559@cobra.newdream.net>
- *References:* <alpine.DEB.2.00.1412081516010.18281@cobra.newdream.net>
<20141212091408.GN4150@thinkpad.thebehrens.net>
<alpine.DEB.2.00.1412120644340.23559@cobra.newdream.net> <548B0C16.4000509@gmail.com>
<alpine.DEB.2.00.1412120814050.23559@cobra.newdream.net>
- *User-agent:* Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101 Thunderbird/31.3.0

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On 12/12/2014 11:20 AM, Sage Weil wrote:

We can't use floating point. The code needs to run in the kernel. We also need the results to be perfectly deterministic and consistent across all architectures; I'm not sure if all floating point implementations (and log implementations) will do that?

Have a look at this (using the code I pointed to before):

<https://gist.github.com/joelandman/ec6f3abef9bc5f1c7b0e>

Running on my desktop box, library double function (with casts) is about 3x slower than the local log_2 version.

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 - *From:* Sage Weil
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 - *From:* Sage Weil
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 - *From:* Thorsten Behrens
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- *From:* Sage Weil
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