

## Re: OT : Approximate / fast math libraries ?

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Fedora/2007-08/msg04911.html>

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- *From:* Mike McCarty <[Mike.McCarty@xxxxxxxxxxxxxx](mailto:Mike.McCarty@xxxxxxxxxxxxxx)>
  - *Date:* Fri, 31 Aug 2007 13:18:06 -0500
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Chris Jones wrote:

On Friday 31 August 2007 5:50:36 pm Rex Dieter wrote:

Chris Jones wrote:

[snip]

gcc -ffast-math

Yes, I tried that but it didn't seem to make as much difference as I had hoped it would...

If the math package is written at all well, then you aren't going to speed it up by lowering the precision, as you are already getting hardware boost. The Intel architecture (I presume that's what you are using) includes hardware computation of logs etc. For example, there is a single instruction FPATAN which does an arctangent. Writing some code to do a truncated series with lower precision is going to be SLOWER.

Mike

—

```
p="p=%c%s%c;main(){printf(p,34,p,34);}";main(){printf(p,34,p,34);}
```

Oppose globalization and One World Governments like the UN.

This message made from 100% recycled bits.

You have found the bank of Larn.

I can explain it for you, but I can't understand it for you.

I speak only for myself, and I am unanimous in that!

—

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