

Re: Low Cost Hardware Floating Point processor? whats available

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-05/msg01302.html>

- *From:* kensmith@xxxxxxxxxxxxxxxx (Ken Smith)
 - *Date:* Tue, 10 May 2005 01:23:47 +0000 (UTC)
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In article <cklt71bttrlebglmrs9d5q76k3s9g6e2ju@xxxxxxx>,
The Real Andy <pearson@wayit_dot_com_dot_au_remove_the_obvious_to_reply> wrote:
>I need to find a low cost FPU to interface to a Rabbit 2000 processor.
>Having done no embedded hardware design in the last 3-4 years I have
>found myself already drifting away from current trends.

How fast does it have to be?

The Rabbit could be programmed with a FP library to do it slowly.

You can use a FPGA to do it.

You can connect a few more processors to the main one.

Someone I work with put a $1/(1+X)$ table into a PROM to get the speed he needed on a calculation where X was a small value.

[...]

>and open on this one. I prefer to avoid DSP's if at all possible and
>need something that will interface to an 8 bit wide General IO port on
>the rabbit, so bitbashing serial would also be fine.

If you can stand the speed of serial transfers, the math can go on serially in the FPU. This could make it fit into a smallish CPLD.

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kensmith@xxxxxxxxx forging knowledge

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- *References:*
 - ◆ *Low Cost Hardware Floating Point processor? whats available*
 - ◇ *From:* The Real Andy

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