

Re: Simple/Fast Algorithm for binary logarithm in C (on ARM7)

Source: <http://coding.derkeiler.com/Archive/General/comp.arch.embedded/2007-05/msg00406.html>

- *From:* Vladimir Vassilevsky <antispam_bogus@xxxxxxxxxxxxx>
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Tilmann Reh wrote:

in a current ARM7 project I need to do some calculations which include a logarithm. All other math is done with integers (i.e. fixed point arithmetic), and I would like to calculate the log fast and with little code – so I don't prefer using FP conversion and the standard math libraries.

Can anyone point to fixed–point logarithmic routines I could use (resp. tailor to my needs)?

It all depends on how accurate the log function should be. If you are fine with 10% accuracy, just count the insignificant bits and then do a simplest linear approximation.

Vladimir Vassilevsky

DSP and Mixed Signal Design Consultant

<http://www.abvolt.com>

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