

Re: Java performance on AMD64

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2007-04/msg00040.html>

- *From:* Kris Kennaway <kris@xxxxxxxxxxxxxxxx>
 - *Date:* Fri, 20 Apr 2007 03:09:34 -0400
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On Fri, Apr 20, 2007 at 04:59:12PM +1000, Michael Vince wrote:

Kris Kennaway wrote:

On Thu, Apr 19, 2007 at 12:32:53PM +1000, Michael Vince wrote:

Hey All,
I been benchmarking Diablo Java under AMD64 on 6.2R
and using the same
methods I posted a while ago detailed somewhat here
<http://lists.freebsd.org/pipermail/freebsd-java/2006-August/005576.html>

The difference here is that libthr now works under Amd64.
But it appears libthr to be about half the speed of libpthread
under
AMD64 mode which is the opposite behavior when using it
under i386.

That's contrary to my benchmarks :(Dunno what might be wrong though,
assuming you have checked all the obvious.

Kris

OK,
I did more testing and it appears the 6.1R Diablo Java binary package on
Amd64 on 6.2/libthr appears to be the problem, it's as much as 60%
slower then libpthread.

On 6.2R Amd64 I built the ports version of jdk1.5 and libthr appeared to
be around 25% faster then libpthread.
But using the Diablo jdk package for 6.1R on 6.2 under libpthread is
even faster by around 15% over anything I could do for any combination
of Java and libthr.

I would guess that a new 6.2R Amd64 Diablo package would probably turn

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it around again for libthr and I would guess it would again around 20% faster than anything I can get from Java under AMD64 6.2R, what's going on here exactly I don't know.

That's weird, I thought the diablo package was just compiled from jdk1.5. It could be there was a performance regression from a change made to the port after 6.1 – it would be great if you can follow it up with the java@ people.

Kris

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