

Re: sparse polynomial arithmetic

Source: <http://sci.tech-archive.net/Archive/sci.math.symbolic/2008-04/msg00020.html>

- *From:* Mike Hansen <mhansen@xxxxxxxx>
 - *Date:* Tue, 1 Apr 2008 15:27:09 -0700 (PDT)
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On Apr 1, 5:57 am, Roman Pearce <rpear...@xxxxxxxx> wrote:

A new library for high performance sparse polynomial arithmetic has been under development at Simon Fraser University in Vancouver. The program is faster than existing systems such as Pari, Magma, and Singular, and it now rivals Trip (which uses double precision coefficients). You can download a preliminary version of this software from <http://www.cecm.sfu.ca/~rpearcea>

I'll update the benchmarks later today, but so far April's build is 30% faster than February's on dense problems. That means the first benchmark should take about 54 seconds. Benchmarks here: http://www.cecm.sfu.ca/~rpearcea/sdmp/2008_04_01/benchmarks.txt

Also, for one day only we are releasing this under the GPL: http://www.cecm.sfu.ca/~rpearcea/sdmp/2008_04_01/sdmp_source.tgz

What is your motivation for making a closed-source library?

--Mike

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