

Ruby master - Feature #12497

GMP version of divmod may be slower

06/16/2016 05:04 PM - mame (Yusuke Endoh)

Status:	Assigned
Priority:	Normal
Assignee:	akr (Akira Tanaka)
Target version:	
Description	
<p>The benchmark program pidigits.rb runs faster if USE_GMP is disabled for divmod.</p>	
<pre>\$ time ./miniruby.orig pidigits.rb 10000 > /dev/null</pre>	
<pre>real 0m5.932s user 0m5.740s sys 0m0.188s</pre>	
<pre>\$ time ./miniruby.patched pidigits.rb 10000 > /dev/null</pre>	
<pre>real 0m3.212s user 0m3.056s sys 0m0.152s</pre>	
<pre>diff --git a/bignum.c b/bignum.c index 767659d..33a172e 100644 --- a/bignum.c +++ b/bignum.c @@ -2813,12 +2813,6 @@ rb_big_divrem_gmp(VALUE x, VALUE y) static void bary_divmod_branch(BDIGIT *qds, size_t qn, BDIGIT *rds, size_t rn, const BDIGIT *xds, size_t xn, const BDIGIT *yds, size_t yn) { -#ifdef USE_GMP - if (GMP_DIV_DIGITS < xn) { - bary_divmod_gmp(qds, qn, rds, rn, xds, xn, yds, yn); - return; - } -#endif bary_divmod_normal(qds, qn, rds, rn, xds, xn, yds, yn); }</pre>	
<p>We can possibly tune performance.</p>	

History

#1 - 08/10/2016 03:11 AM - shyouhei (Shyouhei Urabe)

- Assignee set to akr (Akira Tanaka)

- Status changed from Open to Assigned