# Re: Divisibility of a java.math.BigInteger object

***Source:*** http://coding.derkeiler.com/Archive/Java/comp.lang.java.programmer/2008−07/msg00660.html

- *From*: rossum <rossum48@xxxxxxxxxxx>
- *Date*: Wed, 09 Jul 2008 16:39:14 +0100

On 9 Jul 2008 14:15:50 GMT, ram@xxxxxxxxxxxxxxxxx (Stefan Ram) wrote:

> Calculating the remainder of a java.math.BigInteger object
> seems to be slow. For a number > 100, it would be sufficient
> and possibly faster to just extract the two least significant
> digits and compare them with »00«. But I can not directly
> access the internal representation of a java.math.BigInteger
> object. Does anyone see a possibility to accelerate such a
> divisibility test for a java.math.BigInteger object using the
> same tricks one uses when testing this by mental arithmetic?

How fast is BigInteger.mod() compared with BigInteger.remainder()?
What about BigInteger.divideAndRemainder()?

To access the internal representation of a BigInteger use
BigInteger.toByteArray() or for the least significant bits use
BigInteger.longValue() and similar. Use toString() for the
represenataion in decimal digits, though I suspect that will be too
slow for your purposes.

rossum

.