

sci.crypt: Try to calculate

Try to calculate

Source: <http://www.derkeiler.com/Newsgroups/sci.crypt/2003-05/2213.html>

From: IW I (john65537_at_yahoo.com.tw)

Date: 05/29/03

Date: 28 May 2003 20:02:53 -0700

I tried to calculate the number of primes of 512 bit long. Hope someone may verify the result.

According to Gauss's prime number theorem, the number of primes less than n should be $n/\ln(n)$.

$$2^{512}/\ln(2^{512}) - 2^{511}/\ln(2^{511}) = ?$$

Using my PC's Calculator got $1.885305082130081660668523138413e+151$,

Really big. Something you cannot store in any computer.