Forum:Hack Forums

Thread: Calculated 1.000.000.000 prime numbers with my own program.

yawkat - *May 11, 2012, 9:40 pm*
Yes, I know this is odd, but I am so proud of it. I made a program that can calculate prime numbers up to a specific number. I had to make an own method of pseudo-boolean-arrays for it as the normal ones use an integer and not a long as index. It took about 4 hours to calculate them all and used like 1.5 GB ram all the time.

Kaiser - *May 11, 2012, 10:25 pm*
I guess when you reach the prime number that's not reached by others, you get paid some big money. I know this because this was on my listening exam, so I guess it's true.

Good luck.

yawkat - *May 11, 2012, 10:27 pm*
(May 11, 2012 10:25 PM)Blap Blap Wrote: *[CITE]* I guess when you reach the prime number that's not reached by others, you get paid some big money. I know this because this was on my listening exam, so I guess it's true.

Good luck.
That would be really really hard, first because my computer doesnt have enough memory so i would have to use some kind of file temporary storage, second because supercomputers are calculating primes with a similar method :D

Cosmo??? - *May 11, 2012, 10:30 pm*
Just go steal one of Japan's super computers, then duplicate it using the Tool Gun, then get that damn number!
Joking, but you would need a lot more computing power to get the highest number recorded.

yawkat - *May 11, 2012, 10:37 pm*
(May 11, 2012 10:30 PM)Crazyx1891 Wrote: *[CITE]* Just go steal one of Japan's super computers, then duplicate it using the Tool Gun, then get that damn number!
Joking, but you would need a lot more computing power to get the highest number recorded.
Exactly. Another problem is the method, it is the sieve of eratosthenes, so I actually need to start with two and have all numbers in memory all the time.

Greed™ - *May 11, 2012, 10:42 pm*
what you are trying to do is solving the rhieman's hypothesis
finding a method to identify all the prime numbers will bring you $1 million
I also wanted to try this but my math level isn't high enough so good luck to you:)

yawkat - *May 11, 2012, 10:44 pm*
(May 11, 2012 10:42 PM)Hades™ Wrote: *[CITE]* what you are trying to do is solving the rhieman's hypothesis
finding a method to identify all the prime numbers will bring you $1 million
I also wanted to try this but my math level isn't high enough so good luck to you:)
I am not going to try that, I am quite good at maths but there are many many people that are trying / tried it before that are much better than me.

Great Prosperity - *May 12, 2012, 2:06 am*

So your bragging that you wasted 4 hours and 1.5gb of ram on a program that has no useful purpose to you.

yawkat - *May 12, 2012, 2:09 am*

(May 12, 2012 02:06 AM)Spikeye Wrote: *[CITE]* So your bragging that you wasted 4 hours and 1.5gb of ram on a program that has no useful purpose to you.

:D thats what this section is for in my opinion. additionally I just calculated that this is a prime number:

Spoiler (Click to View)

2814112013697373133393152975842584191818662382013600787892419349345515176682276
3138107150947456332570741987893085350715373424450164188818017893905487094143918
5725757156575870647841835674707067463349718805305087541682162432568055582607111
0691946607460873056965360830571590242774934226866183966309185433462514537484258
6559823862350460292275078014109071633484395477810933972600969096770918439445557
5422111547734376020697965006708788499347801297727787853280743223655402093157180
2310429923167588432457036104110850960439769038450365514022349625383665751207169
6616973527322361119268464547517017345270113791481751078208212976289467956310989
6076749225049483425407333441412162783393946153921252893201072613668929368881566
5491671395174710452663709175753603774156855766515313827613727281696692633529666
3637872865397699416091077771835933360026801245176334514904395983248238364572512
1940639143263563922560455604239600430779936192737990058640042076309232081339226
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7670462618453279567257672892052623117520147862478133318340150844753867605266122
1734057972123741448580372535546302200953630100814586752470460461886203909355520
6195328240951895107040793284825095462530151872823997171764140663315804309008611
9425783809310647489915944074763284377858488254239211706149382940294832571629792
9938894069587737544894808110834529339432780845272978983413514019391241966179948
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0390683651120587895060198753121882187788657024007291784186518589977788510306743
9458961086452587664156928256641744706161533051448522738845496350592554106064584
2732386410950668763631444751426909493295321992421259469515765500915852117342092
3275882063327625408617963032962033572563553604056097832111547535908988433816919
7476158171616066205573070003771947300134318155607501590278421649014225445712245
4693679323497089495466842543641234778537619431003013908056838342077262861872264
6109707506566928102800033961704343991962002059794565527774913883237756792720065
5437686407921774415592782723508230928436835343966791502296761018342437878204200
8727402861721268457638873360576949122410986659257736066624146728015898860552348
6345880882227855505706309276349415034547677180618296352866263005509222254318459
7681941267276030474603441755810292983201712263552344396768163099191275742063348
0771902187541389158087152904918782930841213340091041975631302154047843660417844
6757738998632083586207992234085162634375406771169707323213988284943779122171985
9536058979022917817682865482878781804150606354600471641040954837772017374688733
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7544203128574874581960335232005637229319592369288171375276702260450911735069504
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5790571744941722201607053024391611670599045130425620631828929773830309515243054
9772239514964821601838628861446301936017710546777503109263030994747397618576207
3734477254414271353624283608636693271576359830454479718167188016398695475251463
0565557184371791687566914032072497856858671852758660243960233528351394498006432
7030278104224144971883680541689784796267391476087696392191

Luven - *May 12, 2012, 5:47 am*

well if you can find the nth term of prime numbers i guarantee you you'll be so much richer and well known :)

cadanc3 - *May 12, 2012, 6:14 am*

(May 11, 2012 09:40 PM)jonalu Wrote: *[CITE]* Yes, I know this is odd, but I am so proud of it. I made a program that can calculate prime numbers up to a specific number. I had to make an own method of pseudo-boolean-arrays for it as the normal ones use an integer and not a long as index. It took about 4 hours to calculate them all and used like 1.5 GB ram all the time.

Well done. They do pay hideous bux for the highest prime numbers...