



No Prime Left Behind Forums (<http://www.noprimeleftbehind.net/forum/index.php>)

- **Drives & Primes** (<http://www.noprimeleftbehind.net/forum/forumdisplay.php?f=6>)

- - **Sieve for k=301-400 n=1M-2M** (<http://www.noprimeleftbehind.net/forum/showthread.php?t=20>)

MyDogBuster

21 Apr 2009 10:07 PM

Sieve for k=301-400 n=1M-2M

This is a sieving drive for k=301-400 and n=1M-2M. I'll consider this to be "low" priority at this point, but I would be grateful for any help that people can give.

I prefer that we use the more "modern" method of sieving by specifying the ranges and file name at the command prompt as in:

```
sr2sieve -p 4000e9 -P 4250e9 -i sieve301-400-1M-2M.txt
```

The above would be if you were sieving P=4000G-4250G.

When complete, you should have a factors.txt file. Just post the file here in this thread or if it is too big, please email the file to me at:

imgunn1654 at gmail dot com

Note: The sieve file has been emailed to all current sievers. If you would like to help sieve, please post your reservation here and I'll email you the file. All factors have now been removed up to P=77T. As we progress, I'll continue removing factors for contiguous P-ranges.

Reservations:

Code:

P-range	reserved by	status	est. completion date
0G-3000G	MyDogBuster	complete	
3000G-4000G	Flatlander	complete	
4000G-5000G	Flatlander	complete	
5000G-6000G	MyDogBuster	complete	
6000G-7000G	MyDogBuster	complete	
7000G-8000G	Flatlander	complete	
8000G-10000G	Lennart	complete	
10000G-14000G	MyDogBuster	complete	
14000G-15000G	Flatlander	complete	
15000G-16000G	MyDogBuster	complete	
16000G-17000G	Flatlander	complete	
17000G-18000G	Lennart	complete	
18000G-22000G	MyDogBuster	complete	
22000G-23000G	Lennart	complete	
23000G-26000G	MyDogBuster	complete	
26000G-38000G	MyDogBuster	complete	
38000G-40000G	Flatlander	complete	
40000G-52000G	MyDogBuster	complete	

52000G-55000G	MyDogBuster	complete	
55000G-57000G	Flatlander	complete	
57000G-85000G	MyDogBuster	complete	
85000G-93000G	MyDogBuster	in progress	New Years Day
93000G-120000G		available	

The 120000G may have to go higher based on optimal sieve depth

Once this is done, we'll have a well-sieved file for the entire range of k=300-400 for n=1M-2M.

Ian

Chris

9 May 2009 03:09 PM

Sieve for k=301-400 n=1M-2M

I know there is lots of work to do for $n < 1m$ but I was wondering if there was any desire to start a coordinated search for primes for $n > 1m$?

There more choice the better imho. :smile:

Mini-Geek

9 May 2009 04:07 PM

Where to search next, including the possibility of $n > 1M$, was briefly discussed starting here:

<http://www.mersenneforum.org/showthr...684#post170684>

I agree that we should make many choices available, and so should expand both with higher k's and higher n's, but I prefer higher k's and keeping the size of the n's low, so I'd say to do a bit more expanding in the k direction. :smile:

Chris

9 May 2009 04:33 PM

Thanks for digging out that reference. I vaguely remembered some comments on this but couldn't remember where.

I was thinking along the lines of:

Quote:

If we got k=300-400 for n=1M-2M fully sieved by year end (optimum depth likely P=150T-200T), that would make things more interesting for the people who like larger tests and have more resources.

Just thought it would be nice if NPLB had some $n > 1m$ primes to its name. :smile:

Chris

10 May 2009 09:32 AM

Out of boredom I've started sieving the above. (I'm not trying to force a direction here.:bow:)

Stats at sieve of 1bn. (n = 1m and 2m are included)
47,313,795 terms eliminated

2,686,255 candidates remaining

Sieve to 1T should complete 22nd May.

MyDogBuster

10 May 2009 11:21 AM

Quote:

Out of boredom I've started sieving the above. (I'm not trying to force a direction here.)

Stats at sieve of 1bn. (n = 1m and 2m are included)

47,313,795 terms eliminated

2,686,255 candidates remaining

Sieve to 1T should complete 22nd May.

Hey Chris, I have already started that range and am up to 2.1T already. If you want I could send you the sieve file. Gary knows about it.

Chris

10 May 2009 11:28 AM

Quote:

Originally Posted by **MyDogBuster** (Post 125)

Hey Chris, I have already started that range and am up to 2.1T already. If you want I could send you the sieve file. Gary knows about it.

Yes please.

Tell me which 1T block you want sieved.

I'll PM you my email.

edit:

We might as well coordinate sieving here for now.

Chris

10 May 2009 12:00 PM

Sieving 3T-4T.

Chris

20 May 2009 05:42 PM

I should be finished with 3-4T on the 22nd.

Reserving 4-5T to start on the 22nd. Unless you've already started that Ian?

Perhaps someone could make this an official reservation thread? :smile:

MyDogBuster

20 May 2009 10:16 PM

Quote:

I should be finished with 3-4T on the 22nd.
Reserving 4-5T to start on the 22nd. Unless you've already started that Ian?

4-5T is yours. I'm almost done with 2-3T. I'll take 5-6T.

If anyone else wants some of this just let me know.

Mini-Geek

21 May 2009 08:23 AM

Quote:

Originally Posted by **MyDogBuster** (Post 138)
Is there any way to move this post to the top of this thread?

This mod should let you change the date of your post to put it at the top of the thread:

<http://www.vbulletin.org/forum/showthread.php?t=96351>

Or you can use the database commands described here:

<http://www.vbulletin.com/forum/showt...38#post1356038>

Or you could just make a new thread for the sieve and lock this old one.

Chris

22 May 2009 03:32 AM

1 Attachment(s)

3T-4T complete. (Continuing to 5T. ETA 2nd June.)

MyDogBuster

22 May 2009 10:44 AM

Thanks Chris.

My ETA 5T-6T is Jun 2nd

mdettweiler

22 May 2009 12:44 PM

I've moved the reservation table stuff to the first post in this thread, as requested. For future reference, here's how I did it:

- I went to Ian's profile page, and did a search for all posts by him.
- I found one that predated the (at the time) first post in this thread. In this case, it was a now-useless "testing avatar" post from a while back.
- I moved the "testing avatar" post to this thread, and replaced the content with that of Ian's reservation table post.
- I then deleted the old reservation table post (the one in the middle of this thread).

If any of you admins are doing this in the future and can't find a "useless" post to use for this,

simply use "copy post" on a useful post instead.

Max :smile:

Edited by Ian: Thanks Max Nice solution.

gd_barnes

27 May 2009 02:32 AM

Quote:

Originally Posted by **mdettweiler** (Post 159)

I've moved the reservation table stuff to the first post in this thread, as requested. For future reference, here's how I did it:

-I went to Ian's profile page, and did a search for all posts by him.

-I found one that predated the (at the time) first post in this thread. In this case, it was a now-useless "testing avatar" post from a while back.

-I moved the "testing avatar" post to this thread, and replaced the content with that of Ian's reservation table post.

-I then deleted the old reservation table post (the one in the middle of this thread).

If any of you admins are doing this in the future and can't find a "useless" post to use for this, simply use "copy post" on a useful post instead.

Max :smile:

Edited by Ian: Thanks Max Nice solution.

Funny thing. I've done that myself a few times also Max; mainly at CRUS when I divided up the base 3 stuff; which was a mess.

gd_barnes

27 May 2009 02:35 AM

In addition to k=300-400 for n=1M-2M, we currently have sieving efforts going for:

k=2000-3400 for n=20K-1M...will be at P=4T on May 30th. Bruce and I have a combined 35-40 cores on it right now.

k=300-400 for n=2M-3M and k=400-1001 for n=1M-3M...currently around P=125G.

After we get k=2000-3400 up to P=4T, we'll be opening it up the sieving to the group. Karsten and Tim have already offered some help after the May 30th time frame.

BTW, the optimal sieve depth for your guy's k=300-400 range is likely P=75T-100T or higher; although may be a tad lower if you are just looking to break off n=1M-1.1M and start testing that lower range. This will be a LONG effort! I promise.

Chris

30 May 2009 10:40 AM

Quote:

Originally Posted by **Chris** (Post 149)
3T-4T complete. (Continuing to 5T. ETA 2nd June.)

I have suspended this until the sieve for k=2000-3400 is complete.

MyDogBuster

4 Jun 2009 01:55 PM

5T-6T complete

Reserving 6T-7T June 15th

Chris

7 Jun 2009 04:33 PM

Quote:

Originally Posted by **Chris** (Post 215)
I have suspended this until the sieve for k=2000-3400 is complete.

The sieve for k=2000-3400 is proceeding well, so I've restarted here.
4T-5T will complete in a few hours.
Reserving 7T-8T, ETA to follow.

Chris

8 Jun 2009 10:19 AM

1 Attachment(s)
4T-5T is complete.
ETA for 7T-8T, 14 June. (On two cores.)

Lennart

8 Jun 2009 07:44 PM

Reserving 8T-9T

Lennart

Lennart

9 Jun 2009 08:37 PM

Reserving 9T-10T

Lennart

Lennart

10 Jun 2009 12:23 PM

1 Attachment(s)
8T-9T complete

Lennart

Chris

10 Jun 2009 08:20 PM

I'll be finishing 7T-8T a bit earlier than I thought. Can you email me the latest sieve file please. (If you think it's worth it.)

MyDogBuster

11 Jun 2009 10:33 AM

Reserving 10000G-14000G

Edit: ETA June 22nd

Lennart

11 Jun 2009 05:06 PM

Factors

1 Attachment(s)
Factors 9T-10T

/Lennart

Chris

12 Jun 2009 03:53 PM

Taking 14T-15T (On 2 cores, starting tomorrow. ETA 19th June.)

I wasted a few hours trying to swap my C2Quad into my 64bit machine so I could run 4 concurrent sieves, but the Prime95 stress test failed at stock speeds.
I even tried replacing the BluTack holding the case fan on, but it didn't help. :grin:

Chris

13 Jun 2009 07:43 PM

1 Attachment(s)
7T-8T is complete.

MyDogBuster

16 Jun 2009 02:23 PM

6T-7T finished Results emailed (to different machine - lol)
Reserving 15T-16T

Chris

18 Jun 2009 05:11 PM

1 Attachment(s)
14T-15T is complete.

Chris

19 Jun 2009 03:56 PM

Reserving 16T-17T.

ETA: 30th June

Lennart

21 Jun 2009 01:30 PM

Reserving 17T-18T ETA Jun. 23

Lennart

MyDogBuster

22 Jun 2009 01:46 AM

Reserving 18T-22T.

10T-14T complete.

Lennart

22 Jun 2009 09:19 AM

Reserving 22T-23T ETA Jun. 24

Lennart

Lennart

22 Jun 2009 01:55 PM

1 Attachment(s)
Factors 17T-18T

Lennart

Lennart

23 Jun 2009 08:39 PM

1 Attachment(s)
Factors 22T-23T

Lennart

MyDogBuster

29 Jun 2009 12:49 AM

15T-16T complete

23T-26T Reserved

Chris

30 Jun 2009 02:24 PM

1 Attachment(s)
16T-17T is complete.

MyDogBuster

2 Jul 2009 10:52 AM

Reserving 26T-38T

18T-22G complete

Chris

5 Jul 2009 07:06 AM

Reserving 38-39T...

edit:... on two cores. ETA 10th July.

Chris

11 Jul 2009 07:08 AM

1 Attachment(s)
38-39T is complete.

Chris

31 Jul 2009 04:43 AM

Reserving 39-40T...

on two cores. ETA 6th Aug

MyDogBuster

3 Aug 2009 05:33 PM

Reserving 40G-55G

26G-38G complete

Chris

4 Aug 2009 10:18 AM

39-40T will finish 5th Aug.

Ian, when 23-26T is complete can you send me a new file to 40T please?

Thanks.

MyDogBuster

4 Aug 2009 12:51 PM

Quote:

39-40T will finish 5th Aug.

Ian, when 23-26T is complete can you send me a new file to 40T please?

Thanks.

Thats the plan. Great minds think alike. I'll also begin doing some LLR tests to figure out an optimal sieve depth.

Maybe we can free up some tests shortly over 1M.

Chris

5 Aug 2009 01:01 PM

1 Attachment(s)
39-40T is complete.

Chris

5 Aug 2009 07:13 PM

Reserving 55-57T on two cores.

edit: With the new file. :thumbs:

ETA 16th August.

Chris

16 Aug 2009 05:07 PM

1 Attachment(s)
55-57T is complete.

MyDogBuster

12 Sep 2009 03:23 PM

40T-52T Complete

57T-69T Reserved

MyDogBuster

18 Oct 2009 09:28 PM

Reserving 69T-77T

MyDogBuster

9 Nov 2009 10:31 AM

Reserving 77T - 85T

69T-77T Complete

MyDogBuster

2 Dec 2009 12:04 AM

77T-85T Complete

Reserving 85T - 93T

All times are GMT -5. The time now is 01:48 PM.

Powered by vBulletin® Version 3.8.2
Copyright ©2000 - 2009, Jelsoft Enterprises Ltd.