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Six "Most Wanted" numbers from the wanted lists issued with Page 148 were factored on Page 149. NFS@Home factored 2,1129+, 3,703−, 6,431−, 6,431+, and 7,397+, all by the Special Number Field Sieve. Eric Lu factored 2,1207−, also by the SNFS.

Eight "More Wanted" numbers from the wanted lists issued with Page 148 were factored on Page 149. NFS@Home factored 2,1168+, 3,709+, 6,436+, 7,398+, 7,401+, 12,311−, and 12,313−, all by the Special Number Field Sieve. Eric Lu factored 11,331−, also by the SNFS.

No "Smaller-but-Needed" numbers from the wanted lists issued with Page 148 were factored on Page 149.

New wanted lists are enclosed.

NFS@Home is a group led by Greg Childers.

There were five new champions for factoring Cunningham numbers on this page. Recall that a champion is one of the best two records in its class. The number 11,331− C344 in # 6886 was the champion (second place) for the Special Number Field Sieve by size and difficulty. The number 2,1277− C385 in # 6888 was the champion (first place) for the Special Number Field Sieve by size and difficulty. The 155-digit prime factor of 12,311− C335 in # 6876 was the champion (first place) for largest penultimate prime factor. The 159-digit prime factor of 3,709− C327 in # 6883 was the champion (first place) for largest penultimate prime factor. The 155-digit prime factor of 2,1159+ C318 in # 6897 was the champion (second place) for largest penultimate prime factor. A list of recent champions is enclosed.

No second, third, fourth or fifth hole was factored on Page 149. The first holes factored on Page 149 are in # 6872, # 6873, # 6874, # 6875, # 6876, # 6878, # 6879, # 6880, # 6883, # 6884, # 6886, # 6887, # 6890, # 6891, # 6892, and # 6896.

The smallest new factor reported on Page 149 has 75 digits. See # 6884. The largest number factored on Page 149 has 385 digits. See # 6888 and # 6889.

See the URL `http://www.prothsearch.com/fermat.html` for a list of all known Fermat factors. Some new factors were found since the last page.

No new Mersenne prime was found since the last page. The current largest known prime is $2^{136279841}-1$. See the URL `http://t5k.org/primes/` for the database of the largest known primes.

See the URL `http://homes.cerias.purdue.edu/~ssw/cun/index.html` for the online Cunningham book.

Please send me any address changes.

Keep the factors coming!

Sam Wagstaff