Department of Computer Sciences Purdue University West Lafayette, IN 47907 January 10, 2019

One "More Wanted" number from the wanted lists issued with Page 133 was factored on Page 135. NFS@Home factored 7,359+ by the Special Number Field Sieve.

Six "Most Wanted" numbers from the wanted lists issued with Page 134 were factored on Page 135. NFS@Home factored 7,359-, 11,292+, 12,281-, 3,647+, 6,397+ and 5,443+, all by the Special Number Field Sieve.

Five "More Wanted" numbers from the wanted lists issued with Page 134 were factored on Page 135. NFS@Home factored 7,361-, 11,293-, 11,293+, 11,298+ and 12,283-, all by the SNFS.

One "Smaller-but-Needed" number from the wanted lists issued with Page 134 was factored on Page 135. NFS@Home factored 12,299+ by the SNFS.

New wanted lists are enclosed.

NFS@Home is a group led by Greg Childers.

There were no new champions for factoring Cunningham numbers on this page. Recall that a champion is one of the best two records in its class. A list of recent champions is enclosed.

The first holes factored on Page 135 are in # 6453, # 6454, # 6455, # 6460, # 6461, # 6464, # 6465, # 6466, # 6472, # 6473, # 6474, # 6476, # 6477 and # 6482. The only fourth hole factored on Page 135 is in # 6469. No second, third or fifth holes were factored on Page 135.

The smallest new factor reported on Page 135 has 54 digits. See # 6479. The largest number factored on Page 135 has 384 digits. See # 6475.

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

One new Mersenne prime was found since the last page. The new largest known prime is $2^{82589933} - 1$. See the URL http://primes.utm.edu/primes/ for Chris Caldwell's database of the largest known primes (updated hourly).

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