13 155- 2^2.3.311.1117.30941.100860853831.46458503064581.
100889415553845820735921.817050901143136340856815036 9.p86

13 183- 2^2.3^2.61^2.367.4027.4759.7687.27817.92110001.4672993939.
6274983367069.48401662036451.71639002544177046079.
871036710464094368 47.417324063726420174777931.
715867003033745576109669960047077.p41 [Boender, PPMPQS]

13 113+ 2.7.227.9719.1267183.2158975289.4427870101287797057.
852333015613949705733446242454881.p52

13 138+ 2.5.17.461.28393.160081.159686609.1445443990517.6533247341521.
602053110178724749481.548366377164502369909718120 89.p57

13 144+ 2.97.2017.2657.47521.54721.88993.441281.1590049.283763713.
127028743393.403791981344275297.829904283379720096947188956 9.p61

14 119- 13.103.8108731.2709038809.22771730193675277.
243116937361539697.613350110243193333262258716906211.p51

14 121- 13.67.4027.1154539.123299243.831510853163.
2879003390005532849687.810996712531202185567281370471.p55

14 143- 13^2.67.157.2861.4027.1154539.4710563287.
29914249171.219608124134422861646380 1.c101 [Montgomery, p-1]

14 149- 13.73309.2921184325571.3614646313204739.
8646132397451045285189 9.c114 [Montgomery, p+1]

14 171- 13.211.229.397.18973.428299.5231917.37573673070907.
459715689149916492091.979597292881313378323.
172583931359406979929545556988086 1.
775394364708130234316591967342755605 57.p45

14 211- 13.14771.1162074863209299261199.c216

14 94+ 197.123517.2368823735886785295559763711306363837271095782 9.p54
[Silverman, SNFS]
14 101+ 3.5.13933873747.91345330859266674719.712364863183862755941160105 7.p57

14 108+ 41.73.937.1475750641.44030132882434030723817977.
390267551541285967420352592033193.p50

14 113+ 3.5.227.634157.10795722697672567403907301 7.
744005452906228391543944913.p68

14 117+ 3^3.5.19.61.79.911.7307.40639.100621.132049.84710027970100651637689.
572872514779934486704405741075076905354 63.p42

14 119+ 3.5.137.239.19993.134471.7027567.1058810593.
14837638311110071.175314700664902074282791.p66

14 123+ 3^2.5.61.83.5167.86501473.95263009.888639331.
184881668452017238164508 3.169170612072631581938001415 3.p56

14 124+ 41.937.2729.118269961.146631476887771020062843377.c100

14 127+ 3.5.119881397.926953448405165864969027963371 9.p106 [Montgomery, p-1]

14 170+ 197.1061.2857.1383881.2774129.1253535423961.20442260426821.
475021736393117.10174250577999853023931141.p109

14 180+ 41.73.937.61001.698521.51111761.1475750641.59203797481.1411198114321.
44030132882434030723817977.80123309993635647613346281.
21501568166958140736048377191561.p67 [Montgomery, ECM]

14 201+ 3^2.5.61.3217.86029.16731682871.56826978889.
74234662271094840540223 7.142026762050293659096169 03.
385208529703063036206466231205052676 9.p112

15 107- 2.7.643.1499.194527.609913483.17221279121951.
829607950636581161215073 3.82388639108602402111865145845 51.p36

15 161- 2.7^2.829.25439.31741.45403.1743463.164006995391.
3046462151831565769.3001167062138973417187.c114

15 171- 2.7.241.541.7867.21061.4272113.8413543.292582141.370649274902657.
27356176273283847230561 83.27668755140233459139426 61.
69695219139396515155206340982824 21.p68

15 97+ 2^4.323912067331561466926628163233.p84 [Brent & Silverman, SNFS]

15 104+ 2.7121.179953.736921904993.290340653215025713.
588168656850303143392158491366473666874 89.p43

15 112+ 2.257.673.2526721.31845722644513.12779004583099009.
14986572761868048510608408236729729.p56 [Montgomery, ECM]

15 113+ 2^4.227.3391.6781.5171333.676653946487.
5358063355525776963451.164146647430823530959671 41.p57

15 132+ 2.17.89.1489.2562840001.3089451817.856420938543915930300022777.
12423723493048784603341007485390753083153128 09.p58

15 168+ 2.337.2129.3169.7121.66529.179953.198017.363217.745249.
1659649.1248882721.12515552561.1038405709913713.
777453109529036081.5840270932038540650689.p78

15 177+ 2^4.211.709.7907.12391.565322071603278863.
89262684549588799424589 1.76999987841800445663477 3071.
34273355136165018967113536849036352969191495671.p79

15 178+ 2.113.4761857.402910119444039736424873.c177

15 183+ 2^4.211.1831.7270591.234519435023.14563562998279.
1805790344137304843.107888962684389357049.
42046850228759333970319.581297171188805516982412738813981.
81395548488086772908775498506472824274649.p43

15 194+ 2.113.389.21341.928867025493931347538364789.p192

15 202+ 2.113.1213.6869.78749749441179985117.c209

17 115- 2^4.47.88741.335430126425379392951.
1070187968644717154676571.26552618219228090162977481.p64

17 173- 2^4.57170070771999284093.c192

17 183- 2^4.307.15103230859721.80513057603299.
1655148745882817700457.15139473539268769064239.
4722743517602912319810923441122498349478034813612513477513781.c91
[Montgomery, p+1]

17 187- 2^4.1123.10949.1749233.2699538733.2141993519227.
91770558155114643603180232777103.
5614979831517665327057800827580950979.
17698418369793929863938391176790894606430914025048146677182899.p64
[Aurifeuillian; Brent & Keller, ECM; Arjen Lenstra, PPMPQS]

17 189- 2^4.19.43.127.307.433.757.6427.13567.24733.1270657.
25646167.940143709.12135432683683.1313154695584063.
41643373496311819.219769291604284568749.1768003906672034233419799.
37387216988215606147063933.607701480905421954959792340923587.p36
[Boender, PPMPQS]

17 199- 2^4.760579.598591665856686529.1760811787300683499.c202

17 76+ 2.41761.11355003629541687711335762857918877977.p52 [Silverman, SNFS]

17 89+ 2.3^2.2171241054689323653068865180801586551155489.p66
[Silverman, SNFS]

17 94+ 2.5.29.8837.5863828311202467185926649.
238824108369072337553839623931699681.p50

17 98+ 2.5.29.197.578789.5766433.100688449.
139005288056819459473501243273273125071599637.p52
[Brent & Silverman, SNFS]

17 193+ 2.3^2.6949.138207259471.2249401867464340847383.c200

17 202+ 2.5.29.1213.33342121.255192827795307979630237.c213

18 103- 17.16327518523053828584399.9780184826774860381450393.
15936754604932361311519937275763087.p47 [Boender, PPMPQS]

18 109- 17.223795967.163382228315181914965513289.p102

18 125- 17.41.2711.602401.74813517001.21162386787273369601.
36775924395863544366841001.p90

18 173- 17.1039.12457.184073.85205658777352805361851273.c178

18 181- 17.65536068769.346355593522241.250524183190568846758799.c178

18 183- 7^3.17.367.1831.367831.5608951.4110876980385153863.
4169249212024569235842583.
1450744996988333189921892673782384233809551686747567.c114

18 193- 17.24697464417501280623919.35642806830567716625687623.p194

18 79+ 19.173597326288181048688462600646936748632 9.p59
[Brent & Silverman, SNFS]

18 89+ 19.179.9134249.5913313191525493627.
19707963950138874818292198421797573337.p46

18 92+ 113.929.18313945455473.124292740483707572652291223230113.p66
[Silverman, SNFS]

18 109+ 19.16949061269228757458811888432 1.c107 [Montgomery, p+1]

18 111+ 19.307.1259.239539.57095169829153516132919139336069139.
11649394637222394751695547613796367292670 89.p51

18 115+ 11.19.9041.24841.193077340805021108957537716 1.
39130375586327330480694093 07.751634240345319439347404233 1.p51

18 116+ 113.929.5569.26932417.51523455970414686913.p110

18 145+ 11.19.59.1451.4931.9041.1270201.21584216281.
312275133902139621761.158680111778898167941225 1.
225578152482423135869727994738268 9.p73

18 155+ 11.19.1427.8681.9041.19531.70619.984938339908206953441.
427906142457974033788659934939.c122

18 156+ 113.929.1249.1873.27457.11019855601.260800658620746193.
113633993486079374108113.366631391138486998383606548431419695380 9.p90

18 158+ 5^2.13.317.185026990267721725625447928330141280148587909.
373563363241911566814438588585900748859244677652 1.
157117159053799826120124454876526185475796305050 57.p52
[Montgomery, SNFS on Aurifeuillian factors]

18 181+ 19.17377.28356547.508510908627365936685036936 1.c187

18 184+ 97.113607841.7309231059435841.50341609490524764499407 37.c181

18 189+ 19.43.73.307.379.6427.46747.465841.32222107.337268233.607371619.
31865908033.1234749313729.443134151361467421266377.
45910202414313589117872813176668571 53.c106

18 190+ 5^3.13.15101.60497.145501.199501.269117.74792209.284647361.
6261053129.223962569921.3189146193161.54531393851401.
3697367283002441.202438500542522921.211447769376727722511921.
16593524588877028630213736 41.p64

18 194+ 5^2.13.389.1254793.62531633.3852395353.
285724807097.11986688438966689033246328331593.
42483571366125079581250704287511077869290098582519955732360841.p111
[Montgomery, ECM]

19 119- 2.3^2.701.70841.3044803.1543628017.99995282631947.19987548346939727.
19334422649069921660849.37334806992673560890088722562903 07.p42

19 135- 2.3^5.31.127.151.211.487.523.811.911.4861.29989.216919.
584911.907471.2460181.362063089.837400685143608576099315 1.
2650228472822453446927731244021.p56 [Montgomery, ECM]

19 159- 2.3^3.107.127.1226209.87097657.4739153047.323930821687153.
4086918000521042669809.2551089855701675251204783.
373341733149136785364745 17.p88

19 165- 2.3^3.31.67.127.151.211.331.911.2113.104281.2460181.
4378771.34451077.62060021.384180191671.484536191701.
7302593769703.304789931496543221071203161235 1.
2762720155370058278742863792112809157901.p52

19 171- 2.3^4.127.229.523.6841.29989.35232500053.7766130173689.
80558460464029837.814039783014241819107 37.
109912203092239643840221.
340801506876062492779357.652098348208287400914289.
175458472373381513151887694 1.p41

19 111+ 2^2.5.7^3.13167515699865341218291.
10300379826060720504760427912621791994517454717.p70

19 112+ 2.97.391311355715212577.1486811410142377153.
670126218677699760257.285637110869849515613428 49.p59

19 113+ 2^2.5.231494967593408932347161.c120

19 120+ 2.241.577.1009.4657.14929.15073.29569.563377.2772481.
457419700479928304181062062452 01.
300086633798351403312616140927120 01.p51

19 123+ 2^2.5.7^3.83.3651133.13912531.36743833051.
962356121193062757435287872191585643.
442957335092824299672459066584967392979 3119.p49

19 128+ 2.257.136816129.33225725139813889.754656840241231034881.
12318752177608821548801.p94

19 150+ 2.13^2.181.769.171434401.16936647121.1687178375041.
675303194549101.590165627314172101.3545449651653764401.
50354695689851837101.59398894883664842501847354681792720 1.p47

19 154+ 2.29.181.617.3697.5237.774797.50515081.61170649.
14533200697.289300378289693.48381877771677135533.
485650267130616203888487 61.c92 [Montgomery, p-1]

19 156+ 2.17.2393.3833.4297.7177.3952393.69034016679735329.
430418473330753413594903 37.258736314675653076939912808873.
202404761663902594933257658652674678 09.p68 [Montgomery, ECM]

19 165+ 2^2.5^2.7^3.11^2.23.61.271.859.2251.489061.519553.
1081291.181258778383.253239693257.150669382018464871.
815844583208676103515774 1.248195341904445230829138660 1.
897434095443561438837961170946421.p50
[Montgomery, p-1; Boender, PPMPQS]

19 178+ 2.181.586549711036607087773.692955604336994802553.c184

19 198+ 2.13^2.37.73.109.181.769.35533.211573.774797.100719037.
34422653233.205228610269.48381877771677135533.
78629467041907428777769.33617947809238664590420107 13.
690410667839084470867178743061765864422 9.p85 [Montgomery, p-1]

20 71- 19.20116109225531620123420204236 1.p62 [Silverman, SNFS]

20 117- 19.79.421.1171.3121.142559.363871.9690539.64008001.
172311318287603732461390609.506768466109707698081229280 09.p60

20 143- 19.3121.142559.461891.9690539.1037966360861.10778947368421.
89069400431539529.821651084995160038985081.p98

20 181- 19.5431.1679681.45404357846358829.p208

20 189- 19.29.71.379.421.6679.17389.32719.47251.460951.64008001.
879338701.8442733531.298114935351301.554814907753599944037466111.
102876009584581825049834199946093583638269 19.c103

20 191- 19.473879719151.206106071370102461.c219

20 193- 19.6949.817549.1751408411659171.1921978129885688939.c207

20 94+ 401.637455173.4378474774721.5634378340885013.
267067556675321437729722313331881.p51

20 97+ 3.7.389.1002204583.9446725241.1814565957918978949.
264533291201428766933949508995156 7.p52

20 103+ 3.7.10301.1023409.13949254290107.
410068205906893550382 89.466124620389646774905361.p64

20 108+ 73.31177.160001.821113.4468393.160408194049.51433451961886233152209.
60356159841096987900595 93.528141346839630540377604 73.p32

20 121+ 3.7.23.740521.149810827.424016563147.343040240510243.
90903843289299418643.c95

20 125+ 3.7.101.152381.3990001.1035087720001.3404655742001.
10381937349703984158099 01.382106408343942026422164625 01.
95504977065720311620692469001.p42

20 127+ 3.7.22861.206249.78732889.2824620209.57564425105062873850506481.c112

20 129+ 3^2.7.127.947.6233315089.77531278091661718849004376 1.
56781390795471593979129393750794 89.
74003558169193757115352363289528060034 1.p52
[Montgomery, ECM; Boender, PPMPQS]

20 138+ 13.277.401.12277.6373576093.103759810117.
10725299405489.14921505917722835301920190714 01.
25671002444875098778617582252548213.p71 [Montgomery, ECM]

20 150+ 13.41.401.601.2801.12277.71161.222361.
55191001.167283841.795206712572651793400201.
1099511627775892625817600010485759999998976000000001.p78

20 191+ 3.7.383.70018911943.1757822589992389.3297617194529801894390 3.c196

21 85- 2^2.5^2.40841.1502097124754084594737.
1150028788130629740057268920501316648506 1.p45

21 107- 2^2.5.1734899.4272624310883.352523466309500183.
5583700949480407686172 3.16339864316070753885738065827.p53

21 117- 2^2.5.79.463.547.1171.189437.61045219.85775383.516094151.
80459337199345300130638393.479667952955520596219571126379.p58

21 123- 2^2.5.83.463.14122861.83218931.17222085343.914531249431.
52899783148909.1474011104949958983856849.
367541000424902470501250402608394113.p47

21 153- 2^2.5.463.15607.38047.80031547.85775383.
625770304116639832567.150209712475408459473 7.
340983310555942800230 3.847586878961383719143557147.
512335691247057218495000099822966181 3.p45

21 108+ 2.73.7993.97241.816769.518118697.808208209.14697355609.
81967288802253121.303990417357972559486250800 3.p53

21 116+ 2.233.2089.97241.554017.1221702721.120641464859932258901716481 3.c100

21 123+ 2.11.421.1231.1766117.342306022057032544447.
380770063539669474313312691529545132713.
339852821175178812709034927847468354425381 3.p47

21 132+ 2.73.353.3433.97241.313433209.518118697.715521049.
29831330140869137.32775913825604401.1860536006903334289.
121328963242175651825534959690920155497.p46

21 135+ 2.11.19.31.37.199.271.421.541.613.2551.5077.17497.185641.
501001.658261.7101932659132249.822075756640950024957079 1.
28103216985135750792313441 1.p63 [Sosnowski, MPQS]

21 143+ 2.11^2.23.859.2003.6073.207923.5023019.10362529.944156929.
165238453381.7021471715414521.19725500031525136314134334713235761.p86
[Montgomery, ECM]

21 171+ 2.11.19^2.37.199.421.613.609673.5285953.67505443.
89287241422177.987749814642143197.134345642775344115470124 543.
116839318491602442765024012699505 .c101

21 187+ 2.11^2.23.1871.6073.11969.1172491.10362529.
114089969144083169.21871159470059504243.p183

22 95- 3.7.45943.245411.341203.50218172111.97404596002423.
962435791906840355509151236741426 .p52 [Boender, PPMPQS]

22 111- 3^2.7.13^2.310727.1084328143.1886989139768881.
310496548763781474766081.379552191177534120431758469 3.
35781628429886658331140591695821.p33

22 135- 3^4.7.13^2.61.109.127.163.271.433.541.13591.245411.
297613.396091.2558953.858794191.1818246421.24678723493.
3069425977792523683470 1.230578992060497937475215676741.p53

22 147- 3^2.7^3.13^2.883.2647.51647.737353.16968421.1545133367.
1987506739.1204702623931759.12271836836138419.
201939160064253158758623 31.294211349582600267301405853.p67

22 159- 3^2.7.13^2.18127.84328737834789969061594 49.
98620085581337761407456901 63.
794707274884890838322656596210406344305917819.c108

22 89+ 23.136883.33382650615125103824616300998 9.p84

22 95+ 23.191.571.224071.15187651.23967703.5816700265537656 1.
776710554668428978476301691384524 81.p50

22 103+ 23.12546019.87217943058345922522845 43.c105

22 159+ 23.107.463.44839.180413.359129.94763047.103442452777.3157235118397.
9726491634314765764189.660681544043841038937651312571.
279553697320395979848008032335324462330605717.p65 [Montgomery, p-1]

22 173+ 23.347.2423.9689.28374708516071709023.c202

22 174+ 5.97.157.929.1489.8229211681.5905440414034349.
29261015312845339213.97894581646815123664522 9.
272587378658923696504296965026924118844464526649734902689.p97

23 83- 2.11.338309.364419547069027138439.
277360745032630710629507788059921647 59.p49

23 89- 2.11.11393.66751.70667.460843.31062781.470991383.
123947354355621132967704100189122333 53.p48

23 111- 2.7.11.79.258631.1736163069253.1925658337781.
318133754124000327882209421002909251.
571383924213830762788953842459796286 1.p45

23 127- 2.11.509.7621.98317389091.123971678128031.
231341492176352686686007.p117

23 129- 2.7.11.79.173.4129.92107.127711.810379.
23148176671.17976443246823233651441703 43.
10221991785038781199082463693047534035751933680922 3.p63

23 133- 2.11.29.2129.16759.5336717.63877469.24939218613613.
770041982060401.28422100122687079956425111.p103

23 153- 2.7.11.19.79.103.23869.42331.7792003.
189909327709.62246266355102810647.
2820969191101751999389.40333150102393233358849567.
84989008991373925794866275870849990869 1.p69

23 163- 2.11.4317384634959051641.139527966254606992 5421.p181

23 124+ 2.139921.32809657.21488713821793.120377277700913.
193794572237529420929.903306714396084899161.
24826733754645519536393.p65

23 138+ 2.5.37.53.3313.7549.428353.20694209521.43166461432817.
212620343166625553.209243275915196555829361.
15934243655985916238122009.
122718211887325892007825251037722590536 1.p42

23 147+ 2^3.3^2.13^2.71.673.2969.8821.11173.315569899.171913108319.
14284335193633.1414566930063953.22865554874031409.
448514601593253553.773977042634867278551813 1.p74

23 162+ 2.5.37.53.73.109.757.2269.4789.5689.7549.30781.101089.
289657.1636741.6908329.18996553.558162674404286293.
917439914123974009.131705278579739461146450 49.
44714816409197297105084430356371 3.p67

23 164+ 2.139921.23838755702749293353.c199

24 107- 23.643.20343269.10066705949.247528789079201840261.c106

24 109- 23.4842653.5449327253.6639169291.11290904027914827389.
527454078571971053333.752941050854636892247795591364154 29.p49
[Brent, ECM; Denny, MPQS]

24 111- 23.601.3701.319681.48844975391.49955829499.
211905972652074960927395011.2811571465819427016103623342907808 11.p57

24 115- 23^2.47.3911.124799.304751.346201.5576648219381.58769065453824529.
3428056481945787850 1.82372668081358904766190778376 1.p56
[Montgomery, ECM]

24 123- 23.601.2789.33457.40462534363.5079389540237737.
276860310353632356116778 91.29418461615149475645830439.
90435365932534444012977337.p55

24 135- 19.23.241.379.601.2017.2377.4987.14851.17881.24481.346201.
2400571.4965841.3227151869857.165676809383264877731 2531.
133363929712156077072616283070720 1.p65

24 153- 19.23.307.601.1531.2017.2347.4987.120574031.6166060753.
16533114211.178335684937.341563234253.61083809012629860337.
140093847809479663761368 89.635055477787059362352196248 1.p67

24 177- 23.601.2872003.3156383.155993712571.40322995067713.
20058520782729629621.10326478712952941483977.
46099269535984502131186978763710590316939.c121

24 101+ 5^2.8978093.5225862612935168717.p113

24 104+ 17.1249.2801.2311681.2599263473.33800927079259295567990 57.p96

24 106+ 577.152010807624705722836249.c121

24 108+ 97.433.114769.331777.1134793633.101611758035521.
213069751616028318695713.377988824364409346206939489.
116210455510659157780300 78.p33

24 109+ 5^2.2617.5233.252889825244820344418209334 73.c114

24 112+ 193.12097.349409.2356609.76243169.446839545624518415611873.p105

24 113+ 5^2.227.80438852477.205842102561384701.265208480927538696575678 71.c99

24 115+ 5^3.11.461.5791.98809.124281991781.492913612417684781.
224968673037591738345204 97.248909422709035742190488 7101.p63
[Sosnowski, MPQS]

24 125+ 5^5.11.151.251.5791.7951.86501.46739551.
165634351.145825129938217465672 4501.c111

24 129+ 5^2.7.79.173.3011.20641.597271.6559590140985663005209.
831104803596232295006163713627588347048485714991.p89

24 130+ 61.577.8581.20749.854881.1801385941.680640416821.
30030953107741.2136732643031689.270441025993377649647213 61.
684989928644194001785075922656446841.p50

24 141+ 5^2.7.79.659.22091.9127777.48198971.202112597.12844652726099.
857469439154338058761.162754889847697678105114690 1.c100

24 144+ 193.349409.436417.2356609.76243169.256684033.13240554433.
1216141647361.1719691754689.14499137918017.29754067200769.
20891409541764481.2944679942505092560416 1.p63

24 153+ 5^2.7.79.103.127.199.409.919.7561.10133.36941239.131771863.
1585038487.11144891198810483.414685897598848074528792 7.
638531768638627329872 3473.c97

24 154+ 577.1321.11617.178333.97238233.374925097.261501808988233731193.
137412478671342905091 7.310834213034583485690 53.p117

24 156+ 97.521.24337.331777.2999569.3714049.1134793633.14694225937.
64223630017.456617644577953.156981927006735707137.
531625398119464122952006822528263461889167556848351 93.p71

24 159+ 5^2.7.79.107.1061.450077.1918728367.818799399503055904719731503.
110884239044159568894544885405741235293973649215508688031377 07.c108
[Montgomery, p+1]

24 165+ 5^3.7.11^2.31.79.991.3391.5791.9241.126127.1090681.28295741.65397751.
60867245726761.3625112557571473.11135075053055350258751725441.
16368540352878007335186846657001.
826992956635033305972373470696688983601.p52
[Montgomery, p-1; Boender, PPMPQS]

26 71- 5^2.1475239.2270440490478175159386113.
4403142471175115841662119256O9.p39

26 79- 5^2.936941.4153979.621140503.
13879182464833427374853629783470163645033 63.p47 [Sosnowski, MPQS]

26 97- 5^2.46670952869.358859264713874450688221 83.p100

26 101- 5^2.607.2836081.1164723277843.123325145485121572437880777.p95

26 123- 5^2.19.37.83.739.34687.2633923.2227332988104129559.
188923547140324017002414902389814762308872280359 9.c88

26 125- 5^5.11.751.4001.8641.295751.317701.2906801.
4315817869647001.20099560745902897862501.c107

26 159- 5^2.19.37.4241.150097.358043142577.1344577540363.
1971203353831.264386780671677019.1471041807055513352503.
87728430468489003278234446945154202781697.p97

26 112+ 33377.101377.77143422497.430164069753779201.
66677281918682026467736O1.p96 [Montgomery, p-1]

26 119+ 3^3.71^2.239.953.3299.4999.59011.1935281.6024019.1315750871.
5432384987.11829879544883.11845893623281649.
196194737038969543419763.p62

26 126+ 29.181.677.757.1621.2521.4733.7309.77768062633.
694230517093.95340546766204237.95658746231358073.
154931425506203856971990677659954487371 7.p59 [Montgomery, ECM]

26 132+ 17.89.26881.240769.262153.2383015361.208826607601.
12295864997249593.4954045390051164 1.2412690603599756569.p97

26 140+ 17.41.113.281.1721.2081.26881.748217.16947835297.
296985885709361.635534529301207 3.12990940388357989654 81.p113

26 154+ 29.677.4733.11518277.18244381.648056861.52999049489.
694230517093.1290219273113.2665780306333.28031538253489.
15522208618145378743441.c105 [Montgomery, p+1]

26 159+ 3^4.7.31.107.2333.504200449.5156527199.867851084599.
5878320799289242027.54865399436668796181164201.
51673669552845013169091626817 5579.p108

26 169+ 3^3.937.4057.6449.38299.397073.1470977.96128103348353458186897.c188

26 180+ 17.41.73.1721.1801.2081.26881.1586737.3555001.208826607601.
1209711929761.2253596398489.34886419791409.296985885709361.
7528533299625721.277836197703837841.13016305794792229561.
252602537987029726871796517081.
45132311008608215665287883318562521.p43

28 93- 3^4.271.373.1117.10789.1675799.14307617.104175305182941687128096479.
97512831549426058505928284666426595134447.p42

28 121- 3^3.11617.70423.6077039.50545507.2510904286447886473.
334379886633189962093.c112

28 129- 3^4.271.1549.3613.56503.60029.684217.44447209.
105942074311.23321405465263.17068111104046291434149.
17099177332843917300171371646570885790052006726133 11.p56

28 153- 3^5.19^2.103.271.307.57427.444979.8061059901399457.
366725909655733758769.14802080735210735220478 1.
412037760199357579738273.c116

28 165- 3^4.31.199.271.15991.637421.734941.2054581.6077039.
50545507.16071033331.829366011211.94275090945167441.
5906633396655970661.38681906982937869421.75223260922213952461.
42514107614978695557218181 1.455489018772398209896229132530 1.p40
[Boender, PPMPQS]

28 173- 3^3.123736064025936372104807.c226

28 73+ 29.877.1081277.361030699.819657058077783329568757 1.p62

28 87+ 29^2.757.40427.1074509.254041893558435224697786979 43.
789860765946204145019367408174514372 63.p44

28 104+ 17.22223646961.19789341205087347551633.c117

28 107+ 29.249636137.4043254583.154682142051150320956255 43.c111
[Montgomery, p-1]

28 111+ 29.757.1999.6661.57930214687.1004690609843.10896566818756621961520 19.
93268366116497859600383042170 39.207165302711549983706216506556 77.p41

28 117+ 29.37.79.127.547.757.2237.102547.114661.284467.1598039.
1672698885245389.362421235545671159911.
24851576917027369280519242 57.p69

28 140+ 41.449.23633.29201.41641.614657.23803361.54034289.213827041.
856213121.439840060577.2863024493281.15463990974881.
3003033748840445350801.48834914196295858039920 1.p65

28 141+ 29.757.34687.40763101.175323719489.1892292333735833.
29837733926988190223311.10794451258505794581848338245438995963581.c99

28 161+ 29.1289.13007.35771.1227143.115152031.140668620541.1490362205711.
4099849287367.53604041674789946568937664587612204 1.
13809105492012610953977444908132927791345 1.
19392365997036732253185233225933315357379170 9.p49
[Aurifeuillian; Arjen Lenstra, PPMPQS]

28 176+ 97.353.1409.3169.453377.2012449.4338337.168542177.
1113035644744321.9322693790553541578049.c180

29 103- 2^2.7.1031.340519.1469224961.636627836172717848527.
15290755863085981013017.p89

29 119- 2^2.7^2.239.3911.199921.1977917.9118019.88009573.
33505187587603.94537265603472288554609.c103

29 123- 2^2.7.13.67.83.1231.2789.446983.40053229.248807517236987713.
401205645161248412766 73.126031403391760996696610042 7937.
913895996627083667480895272358121.p51

29 133- 2^2.7^2.1386659.88009573.82876670522336069.
78885870548026497089.157193380600163813309.c122

29 135- 2^2.7.13.67.181.811.14437.22111.41203.52813.120691.732541.
2284147.1710290161.1744612878442321.208015951433360864196786211.
125179767972033304003588319121811441.p67

29 141- 2^2.7.13.67.283.179917.659693.4440937.7823903.4225321621.
16200263293163.100338952626091.1830331915418999963.
6871818784474993543.3576995681195463204429511.p77

29 163- 2^2.7.2609.25092000277.1719379794329501.135064014764676865979.c188

29 165- 2^2.7.13.23.67.181.991.22111.120691.338141.732541.17607980281.
1193512007711.18944890940537.13323049382040421.2018520940769719651.
9705731115425038321.562537796324217972 6741631.p96

29 167- 2^2.7.4270376106287262589.638712371513198542453.
640330616130442247229277.c180

29 169- 2^2.7.521.148123.501931.3616939.82162393.4748492087.
449033250265336621.749736600837401225647.c170

29 171- 2^2.7.13.67.571.2053.3079.11971.14437.41203.73303.1386659.82947313.
25870658059.644657071033.274773085966123.157193380600163813309.
119916055173246032971792999.3106299207271799583804145 09.p95

[Montgomery, p+1]

29 83+ 2.3.5.2776655773.192681282257.64443883030197805066024 7.p76

29 96+ 2.193.577.31805569.63354497.675108764149059653091508213868465857.
256077358253602700102019471691674880 1.p48

29 103+ 2.3.5.619.14627.42052841.10617820935965413.1151869947110526846443.c98

29 109+ 2.3.5.30088361.34203329.210063929.166772124645094118958218 9.p111

29 110+ 2.421.1061.470925821.402546025333.439165605149799397.
9582461125713211290721.c96

29 115+ 2.3.5^2.11.31.47.401.13878779543775756973646971.
306150405514142962463887827 8539.p104

29 117+ 2.3^3.5.19.53.79.271.937.1171.3407.7489.10435069.252918667.
69535037994881363782489.16391938216823220954168370090428 79.p77

29 120+ 2.17.673.2161.26209.561377.1056241.128971441.209522641.
4966942978351201.92552932737272641.371837256582239379457.
92963666359817282144173656337366288 81.p45

29 123+ 2.3^2.5.271.20747.812129.1453369.5055629.3711544517.
155330423557.350069058439.188259475347389.
13632739973262903470899.662048291817281104313190807 1.p56

29 129+ 2.3^2.5.271.241800198061.1137465695629.39746663511671707.
133177957789908209067 1.2027049776208383967809.
389281282997692871576048842 3.110456158177046040747765490 73.p47

29 130+ 2.157.421.1061.6917.470925821.6184621210242371870741.
11513793226193269795221384668 9.c119

30 92+ 241.1289.3361.2772697.36889506708553.974383928483756673999431379 53.
18242343729642199349529476173163 3.p46

30 94+ 17.53.834123355493.24274869980616021618875753.p99

31 71- 2.3.5.17609.611127785361198601.64244380991960907220477816981 7.p53

31 91- 2.3.5.2549.42407.1661479.2426789.7908811.917087137.
473516688426601.11223995634304407975732373875451 43.p51

31 59+ 2^5.104898797453116744312163383786496509174 9.p48 [Montgomery, SNFS]

31 74+ 2.13.37^2.593.1071373.1939097.50121089.
14444880377371509912265925161573 7.p51

33 67- 2^5.4289.1084112663.11098897650130502135455967441.
18560847411975948968564462623.p32

33 97- 2^5.2565353211241239499.34375228101855640046118460 21.p100
[Montgomery, p-1]

33 61+ 2.17.353384347.448145037542459115968046471 7.p55

33 68+ 2.97.137.6113.20809.2430316601.213735313506550161111303 53.p57

33 71+ 2.17.6108983.36485348300433964813387 93.p75

33 73+ 2.17.9895446145087.54100708138621.
15695749335235586647576751881930 3.p51

33 81+ 2.7.17.19.151.271.307.221401.253681903999.31332290054833.
16714101057295235042555479 9.p56

33 88+ 2.881.72718097.136394897.703204309121.1981665371137.
42102621320436869535565288 1.285500116060848674075963012 9.p37

34 71+ 5.7.569.853.1847.2699.28628148789089259039542317 91.p68

34 86+ 13.89.1033.9353799977.182195626458311509.
2937307532258518368425474683873.p68 [Montgomery, ECM]

35 71- 2.17.79379.23281886333.126802643319818887926332 71.
6582672768514974369599903678066543.p34

35 62+ 2.613.6664269889.366902620771948144206857703016969665627 7.p44

35 80+ 2.577.641.632016012663361.4394231174092284521569.
4036485705304800650547224188 81.p52

35 91+ 2^2.3^2.29.5209.11831.6276271.594780551.1172027872471.
3285353271721733941.3281197532676737263885470301062301.p51

35 97+ 2^2.3^2.109553159.641512217.334359797147.540510568883.
420479896307899.5127059720682712352721 41.
3050793308660425512411844 3.p45

37 95- 2^2.3^2.11.41.4271.4413131.101607631.3933538789573170812717.
1822296457941915814096665108 41.p76 [Montgomery, ECM]

37 58+ 2.5.137.188862267838638894183617588461.p59 [Boender, SNFS]

37 82+ 2.5.137.17802405001.10845656230655112050361336077.c88

37 85+ 2.19.103.2551.1824841.1826651.77002351.116629519884015113797687.
3163721267531679621830452247255204843 41.p45

37 89+ 2.19.179.1069.2137.2806310075821813773237469 81.c103 [Montgomery, p-1]

37 95+ 2.19^2.191.671081.1824841.8096700889.559698440382833.
1519466836675201951.5046607859578109026483575611.
1063935303238615073935849272 31.p33 [Montgomery, ECM & p-1]

37 99+ 2.19.23.31.43.199.2069.4621.10099.9181261.12892843.
173042431.2533429537.11722233667.98389112119.
1069883448274586163399324976 9.p56

38 71- 37.80230427.570576242805599.
1364437348679878981934 81.285475905647025966728397 7.p41

38 81- 37.109.163.1483.169471.87158971.313179008463693424243.
5116620751639707620604175384364843 23.p50

38 93- 37.373.1483.36767.1687081567.18418137757.
1185636060106722456963935425 3.409727860187729604132328385115502 7.p54

38 59+ 3.13.13018462432992822178052993720857.p61 [Montgomery, SNFS]

38 97+ 3.13.839682247.115049291380938731911.164174702417842847479337.p100

39 85- 2.19.31.191.401.312971.729665161.
9393136322591018941 1.75081570809262748250653381.p68

39 59+ 2^3.5.362647729469645531483708582635843944440410721.p48
[Montgomery, SNFS]

39 68+ 2.953.1156721.150946477016946024834952969.p73

39 71+ 2^3.5.72955773291998591122529.p89

39 76+ 2.1217.44537.1156721.380121424810577.
589163534319058114245436 98977.p64

39 81+ 2^3.5.1483.2089.1684387.331056937.131601316519221960979.
244300361656666306998927 8441133518059.p50 [Boender, PPMPQS]

39 97+ 2^3.5.11059.8891275693.2127445285204501121.
254552381969898653477.464911694522045427861784216 31.
239044748808095530515651355267.p42 [Boender, PPMPQS]

40 79- 3.13.66361.10816997.21644432937199.8047516900168147.
101877468908821253389446959989 3.p54

40 58+ 1601.74435461.133767198412633530953435485071710 21.p48

40 62+ 1601.27281.29683741.9934573793351813543760747276183581.p51

40 68+ 137.769.3329.399433.1177353403974578254481503 13.p69

41 67- 2^3.5.269.466723.862559.168225209.
196633877057848946743623103.772455474429171251652964117 39.p30

41 87- 2^3.5.59.349.523.1723.248879.69238518539.
278057920943764716235993.415583594326272655845443 9.p65

41 59+ 2.3.7.13003324711223675162020886035234448231.p57 [Montgomery, SNFS]

41 77+ 2.3.7^2.71.2311.3851.9329993.92058854581.
5669871130991.35675520936728097016443150560 9.p53

41 95+ 2.3.7.11.61.191.4111.565441.10402647689418130106591.
54778561077895825961237647 1.p89

41 98+ 2.29^2.7057.51941.3286442518717.22550075621233982641.
250152780868776059769 7.80912207359051153602360341.p68

41 100+ 2.137.241.1801.6121.10313.391810481.110312844281.
234370420227297398931574601.p100

42 97- 41.389.24381429986184461.461905321249903914114 67.
107965027831860669909202225 1.c88 [Montgomery, p-1]

42 61+ 43.17863283569307161736407.p76

42 73+ 43.439.14466235327009612050469.184837201641012157917566 23.p67

42 80+ 97.193.14401.10043121927253601.5007945605667365550817.
232292767649845587478247497163 21.p53

42 82+ 5.353.81094229.131135713.456761729161352641728877 57.c89

42 83+ 43.475436710846639331916966372716 83.p102 [Montgomery, p-1]

42 93+ 43.1723.4093.33727567.804009677.1196618911.36645078004273990859.
226634051949035225389.468220924705254196024615396055 3101.p44

43 79- 2.3.7.317.5531.6637.81078518121351668623.
792637318897776211290 71.202893398835780609063412644 91.p47

43 85- 2.3.7.647.1871.302941.3500201.56770350869.3807926835707.
184537189559967875211 71.870419522191550489899 01.p51

43 89- 2.3.7.179.38115923664687505891753.c119

43 97- 2.3.7.4657.31801792993.71062007093773.
583493859467537644 9.180308142117187615242 1.p89

43 59+ 2^2.11.261475891589600534045902543 31.p67 [Montgomery, SNFS]

43 74+ 2.5^2.37^2.149.99901.571873.950934337.
359809068743671931272576225 7.p67 [Montgomery, p-1]

43 98+ 2.5^2.29.37.210113.297641.327517.22021301.
524679165318400169645235393827976 01.c97

43 99+ 2^2.11^2.13.23.67.109.139.397.1321.359063.3470039.57993427.
323084645463491298110593.546370207572762083152045 9.
911285680033119157086050677.p50

44 61- 43.384694061.27584350136044931407349996847520914344 6929.p49
[Sosnowski, MPQS]

44 67- 43.269.3217.1638692011329379.299522412766607399011109.p64

44 83- 43.167.3955048804740417253.269038245337718239042 09.
232064176047748437960887531.750488421984703776443925689469 43.p34

44 87- 7.43.283.5569.9803.44371.19147377833.115405672188757938511.
566488180079271622121777159820 79.p64

44 62+ 13.149.875121485834948794608564319951077325508 9.p59
[Montgomery, SNFS]

44 68+ 41.113.809.25288165648584410122836 73.
111962133352732264471846900896 0761.p48 [Boender, PPMPQS]

44 88+ 17.241.3457.43649.243233.479777.991873.6634933537.
395612100929.1976143084961.90824251110626878591753 7.p59

45 59- 2^2.11.31271.277301.95043203662088698873 9.p65

45 67- 2^2.11.2614999599612154178059.106644144182167465567617 1.
137914194447007338401767571.p38

45 77- 2^2.11^2.29.71.89.4621.4124569.35571508524949.
222101449727389.64687804330310691163789.p59

45 89- 2^2.11.179.1069.169404559.767932051.66636889149731.
581883532405871451602601 1.884956208874375130677948833732 9.p54
[Montgomery, ECM]

45 88+ 2.17.2141569.27471841.494562511489.102613110991544831269996 9.p95

45 93+ 2.7.23.283.42409.655363379581.7499968821623852372406 1.
589315583077624201390144195137776274 01.p72

46 59- 3^2.5.130981.564930745883083815362557.p68

46 61- 3^2.5.367.336084750778805669364511 3.p73

46 79- 3^2.5.1423.2030617.65834651.8432588956006810871491.p91

46 95- 3^2.5^2.191.915391.58970111.276082234861.3706109078315291.
182549618331209954395040 11.869333244926326187979597262939.p58

46 93+ 19.47.109.311.4217.59707.391903.2119123858693091.
592690622763143178419592301.189307719543647060109630487 21.
268828056942695535315789158 03.p35

46 94+ 29.73.2156623201.3671212028717.363925016054632301.
112810559107383355962517.313806317842016451257381.
670319232631699742738860 9.p43

47 67- 2.23.269.229409.72611395774462081.
212709641625380890130149837618 51.p55

47 59+ 2^4.3.709.827.856835427135799290060168730827123041863 7.p52
[Montgomery, SNFS]

47 85+ 2^4.3.4778021.11048879.12760031.50246304977640328639.
685453592233017439317016363100695431830821915787351722798941.p41

47 99+ 2^4.3^3.7.103.331.3691.389357.973459.132277876039.
9370321586592865273.1568665617454316058283.
853627428717359910581357036 2819.p61

48 53- 47.107.9013085165975591837557.p64

48 59- 47.52511.22658878366088640409054347305003 99.p60 [Montgomery, SNFS]

48 61- 47.6295979327493762037.331848447933624078238560499 1.p55

48 73- 47.292944651683.51577085552086923203.
646113161323644351556787.739396612198927320241489 19.p41

48 83- 47.167.27059.1219271.86355193.
1036025257.864083177447102585418536115 7.
20614187046333194205951817656525277868 3.p42

48 91- 47.71.313.1093.5279.883871.175926983.1250142349.
552210939047.1810004030108166357193.p84

48 59+ 7^2.7789.369724681.947530325982934315368121.p62

48 64+ 41781380650010733442252 9.171384369229251163605657601.p58

48 67+ 7^2.123993665600666711820939 7.p87 [Montgomery, p-1]

48 68+ 137.5308417.2009818448165540225792 9.p84

48 76+ 132241.5308417.207097721.16341411017.39986966380937.
5404868180956712984378881.p60

48 77+ 7^3.3631.1711569511.17515852613887.61372621551821240431.
3224590896954934485840296282463314623.p45

48 83+ 7^2.499.997.2231153209843.183893115800039602309.c100

48 88+ 17.113.881.132186737.14669068417.4464648416273.
1414005907995417698105291980 9.p83 [Montgomery, p+1]

48 89+ 7^2.58741.615665543287.265620987707426380466137.p108

50 61- 7^2.2441.1339016086140839.815287727075024814767183.p60

50 77- 7^3.23.991.9241.73679.59337433.2277696793.297842950080182981049577.
153401343485638153344674564056132867 1.p39

50 85- 7^2.137.7481.6377551.20968481.43339993937.16225824203761.
262231331604679.25338032273743655164018771454965573814119 1.p43

50 99- 7^2.23.199.991.1783.2551.73679.79399.59337433.66802033.15625125001.
3373772242039.41469060507073.77148921314064477415231.p69

50 71+ 3.17.22721.43434716570537.12112473003064913460563.p79

50 91+ 3.17.6091.23297.31643.2219491.2514961.4381982190587.7564186515866657.
188005813195797592877 71.748542752883483471852533372855368 3.p43

50 95+ 3.11.17.457.571.3307.160817.557041.
15387836214379711097.36286237463378266197881.c98

50 96+ 641.1153.3491200714753.255775794274527295827073.
367741123007653820679611686528008 97.
902356153132180389917213293605712129.p51

51 79- 2.5^2.317.159865212423677.8667843515302747948661.
446434693648485696444191726361 59.p63 [Montgomery, ECM]

51 93- 2.5^2.7.373.379.1303.16741.22073.
15284179.13500481538706912326593219339.
3573701539999612422562206333151480554239.p65

51 99- 2.5^2.7.199.379.61395401.1977725861.17596420453.127921310235379.
108608477363132635219.4195580121064479897289.p79

51 74+ 2.149.1301.5883593.10160439842909796023929.c92

51 79+ 2^2.13.279187.9337347626233495645144409.p103

51 98+ 2.1301.1373.78172361.172931389.2690698193.
3959332221041.17538260090361488242979 3.c100

52 79- 3.17.8329129.1739831063.124363234831214061799.
97295604104590115319212 23.395909555076878787009316423.p47

52 85- 3.17^2.311.6971.23971.61507.5367751.164744893257491.
399777287281405829.10177443707650976797583938 1.p63

52 53+ 53^2.181194015068926422899222020415627.p56 [Montgomery, SNFS]

52 58+ 5.233.349.541.5801.42689.3178144278917972031397878529951014 1.p49

52 76+ 89.82153.466917123045716747467729.p100

53 59- 2^2.13.943970114867362247759443.124665262807839611153811 07.p51
[Boender, PPMPQS]
53 71- 2^2.13.106783806009603620550498441966157.p89 [Montgomery, p+1]

53 73- 2^2.13.293.159004934839233891251 71.p100

53 59+ 2.3^3.36109.9297103.380020241034589434792741 7.
218856719944610014937266931637 97.p33

53 62+ 2.5.281.92440192126938595012573.
935100803836411462981123312851008652 53.p43

53 82+ 2.5.281.1754675971393.1697801594239406192321.p105

53 96+ 2.193.93297618587882497.32835259598622638465873 93.
5127247556880055622590849.22880071503282695939438185048 97.p67

53 98+ 2.5.113.281.6469.8821.163661.96764229776378081.4345876805521190969.
403149804242510173030 1.17542382505879886894289.p72

54 59- 53.4013.105786647.310709694446081632329898696 7.p62

54 61- 53.4637.32904029059528723344352074697.p72

54 67- 53.269.106517687723052678547.10504450094194375457687964 71.p65

54 99- 19^2.23.53.67.811.2971.84691.9422227.762902713.9339586579414037.
615621344053763351937 7.85352471706036985245708 1.p76

54 52+ 8503057.55919217012841299822887 53.p59

54 56+ 17.113.14593.291444977.1811964789540354449445906216548116256 81.p43

54 62+ 2917.44582307587735512388062 21.p80

54 80+ 28961.343489.3024737.3790433.1327427713.
161019141207591521.599453604649583338855488 1.p65

54 92+ 8503057.127138398069217.223004774901752741561.
94881283737286047614338 49.p94

55 79- 2.3^3.65390411266245619112083669.c110

55 95- 2.3^3.211.571.647.44171.180311.18145951.1100748661.
7003229692931.3222383446162535363.5189244107146937791.
6188102018723802695847391561.p52

55 99- 2.3^5.13.19.23.67.73.79.463.118603.409267.6652441.40420381.
83050969.684322521301.24226294794769.44322821478541.
515380816883043913429.1126119570774961831014214360849 69.p33

55 53+ 2^3.7.107.40387.158644309413738837889020976068628 87.p50

55 68+ 2.41.137.409.29921.111593.3179977156744880801.p84

55 74+ 2.17.89.149.76961.353893435429.927313555060449469813410 1.
14633079494316847154661220961419485 7.p47

55 85+ 2^3.7.9419.8987221.9935311.2737667946491.731093457576076242351059.
42469093750668569741228130565031 11.p59 [Montgomery, ECM]

55 87+ 2^3.7.59.2971.4583.185137.183097130989.
267862906957.57564314616079720752730650 1.
183794247856096808107400703096 07.p55 [Montgomery, ECM]

55 100+ 2.41.401.1801.111593.4485234541681.1563211806048721.
8345850723306601.95021874303431401.660117653270710430147201.p77

56 53- 5.11.107.9011.204093477865164700124289001479516438 1.p49

56 79- 5.11.5531.13709977.3274232553511.
97677070602539.770866795976680618 19.p80

56 97- 5.11.402940429633574331792874 69.610048677006727906888309302 1.p115

56 99- 5.11^2.31.67.103.199.2663.7723.30841155073.57914451739.
103372829011.10542455001277.13045372096150426269073.
202534598336637999037 33.209676597057354665094 13.p44

56 64+ 461386369.2215526385443140481.
11209712234803590913057126456734347584934 41.p43

56 74+ 149.3137.49876297.1552048621.1849954152780169681337.p86

56 83+ 3.19.4483.16198400300755689379579.c118

56 86+ 1033.3137.296518196858312552166810677.p118

56 91+ 3.19.157.911.5227.15737.28393.1925393.1138721034165079.
915478273730920638356 9.4807908306206412790819 9.p74

56 93+ 3^2.13.19.79.2538157.991072699096717.584811973322971575660660 19.
10800292046938016842013532724813231590022178893.p65

56 96+ 3329.4289.88321.192961.12324161.112790017.
478998073521217.34335621206267137.9204182701393835713.
232559086557407467762901333407938321409.p47

57 61- 2^3.7.8297.275599.45410285237203413372260007 7.p70

57 85- 2^3.7.41.71.2551.3691.4931.318436803674534765469421.
126381795020961995216949780 01.p82

57 59+ 2.29.2243.27967.427076792183.15968939304852785047310834984020 51.p50

57 61+ 2.29.977.431898667.35190033909036187647556 73.
205002128155608713461282844 71.p41

57 78+ 2.5^3.13^2.577.1301.18289.421774848457.
193892745203299008515581193.473828132744064133969715982253.p55

57 88+ 2.17.769.3361.1268017.4443926186627307609853361.c116

57 96+ 2.193.2753.144961.228929.247553.2562959486619658177.
159452332908596307521.195688992282395942401.
309855558826630979872 1.p67

57 98+ 2.5^3.13.113.197.3613.33371436584977.
2880170603124053.19522006634428762789109.c110

58 71- 3.19.12121973.1028171591.32562234989.91551995051796931943293.
950859851587476617699925792012602 41.p39

58 79- 3.19.8059.181378493467736388058632863 3.c107

58 91- 3.19.211.313.10986067.183585613.8889251160791.1212370332055146811.
47113429973968314 07.126415678477358581218727.p66

58 93- 3^2.7.19.163.1117.16493.1594951.109960597.32365401511.4386278573077.
106644259178537.802184537927239.75701865042739143157590250368211.p54

58 61+ 59.3295264409.7192041338831.
822831262778162669835406436574586618790 89.p43

58 62+ 5.373.673.1061074599281.24937149867615397953049 7.
964617068107856200086067220798377.p35

58 67+ 59.4423.11927.16508181083213.264147380958609467499443.p73

58 73+ 59.293.11773707677440648014056551.p100

58 74+ 5.149.673.1977434348109526529.19469841499343565027595314917.p79
[Montgomery, p+1]

58 81+ 37.59.1009.3307.26407.1019701.1567837.154323841033.
35749573094688793912 9.53664420062152441473 1489.p61

58 82+ 5.673.451413146924684437.19091233489460737861.
65982689457049617692092 33.68367810072444900908612772708440 81.p46

58 83+ 59.4257948084391.25040231924905264883.391207641578723500693.p92

58 88+ 17.2507800241.76138295377.1824260537089.7533122454001.
156998023470731873.14759380195279967414944129.
62057338333442627487392257.p41 [Boender, PPMPQS]

58 96+ 193.449.1153.1169473.142003009.19166983681.
24779314612061953.1078686229606297409.22411195734132103169.
21447478665303915002497.244312441443406019338 1953.p37

58 99+ 37.59.67.1009.3307.32077.93941.1019701.2168893.2366629.
19837621.215363413.67286189741.370407316388289387307.
10924686900226761218173.p66

59 83- 2.29.1163.34031.1150206683760653789705431999.p111

59 85- 2.11.29.41.137.151.181.443.1871.2381.361353204962363828785531.
31993173827375947261385787 11.19205218363419571738281287595933768 1.p44
[Boender, PPMPQS]

59 89- 2.29.179.6284491657091.22081571409593.972952819169180091071.
157604971336718305845 1.26899414244883480238486498083 89.p55

59 53+ 2^2.3.5.107.80228189097432610647753188426631403 67.p54
[Montgomery, SNFS]

59 62+ 2.1741.17782728218837.13494230716102089497969.p71

59 64+ 2.257.1409.1202561.4574180655836929.
11196855779275980405078323 3.29475258058422871838362537601.p32

59 68+ 2.17^2.409.593.601.6257.87721.218775313.6387105089.
592889059371965032485521.p59

59 90+ 2.13.37.61.1741.8101.64921.695581.931837.8117401.17687953.18083161.
2718597042181.7828781701952161.32811926888533202800287661.p56

60 59- 59^2.18438666190697.16425604942648361673173.p66

60 61- 59.7687.20979773866271054688241.p81

60 93- 7.59.523.45943.544919.15159311.1021987913.
43936251520677021083041.26630515725327518496027801653933.p80

60 95- 11.59.191.229.419.5701.1198151.630359771.3978405096481.
64556007798559201.180893703656849813663962631.
10763964092733349596342342l1.p58

60 61+ 61^2.22742387.10390526675170048019296473 83.
23725002110083330032229443 01.p44

60 62+ 13.277.205345690403737102561.10306661358767180409153 73.p63

60 64+ 769.7937.2998657.1861390422206123777.510074661605448557441.p62

60 68+ 17^2.281.2713.80159131586592971777.25316340388412815172453873.p68

60 77+ 23.61.199.5839.6955411.7859419.129943035204533.
56912098228911161551547.283262402140101517345431853 02263.p46

60 84+ 17.281.2713.8233.80449.2087802049.4527011833.14864600138249.
70414988866482578753.52164017845555438512279914287761 9913.p46

61 77- 2^2.3.5.199.859.2209747.52379047267.4242586390571.
3961245677218061.274716561670738992113.536231864510166445391.p45

61 56+ 2.17.2017.12401.454677073.49612704073664599841.p63

61 58+ 2.349.1861.2089.340577.74377979811140665117606674668924409296393.p48
[Montgomery, SNFS]

61 64+ 2.257.641.63546080822953577210 6113.p85

61 68+ 2.409.6922921.1117521521.517003551730740124849.
32489476451994002012646170985629171047873.p42

61 76+ 2.761.6922921.81808851457.24921518840870416053329.p93

61 77+ 2.23.31.331.2179.254735251.42308091563.50689400581.
99378115904791571.24867482590192021386415077272877858 7.p47

61 78+ 2.53.157.1861.13842121.104537472457740640338604679102420447737.
13289953820849332427804186683936870521895 7.p46

61 80+ 2.14593.436801.13483201.93392020920424417.
477302672608932495361.588894575109458165761.p68

61 86+ 2.173.1033.1549.1861.74432711910232460333623 7.c118

61 96+ 2.193.2689.4801.3853313.8346049.20653663489.30458644417.
1375331651522671169.152687002417950428241375 37.
32237809504004235157528971453329857.p50

61 98+ 2.29.1373.1861.3529.67667377.383188373.
14772114406812806149.206849506772293142091534 77.c103

62 59- 61.175939.416346224106125980339.p79

62 83- 61.167.13917773.50847633637.896693202481.3147670338047876848577.
45980139022360945530023.37625952989032573239059.p50

62 89- 61.1069.113209.131990533381441751457703 49.
34102285437085082217185167 1.39168982657475142560355600798 91.
14787347055415598644147515432551.p37
[Montgomery, ECM; Boender, PPMPQS]

62 67+ 3^2.7.2381818961188746315024465 07.p92

62 76+ 761.1217.19417.222685736740348949017.c106

62 73+ 3^2.7.86752070770418407.65432313506671795111.
36660801173465309648161 43.p68

62 77+ 3^2.7^2.29.617.446293.825977153711699903.
194457030112653107153 3.126123293359028073920568834 01.p59

62 81+ 3^6.7.13.37.97.2269.225523.417961.44723293315793981214013.
92241353650483865615059 9.610842373870098830152418991310 51.p45

63 81- 2.19.31.37.109.7759.32563.424117.4045709593.
24441614509104302817877994656 9153.
26907892848201835343829081066780352113 19.p44

63 87- 2.31.37.59.109.233.2257684668341.6234157146631867.
98320012313450183689981.13466563023161590903511451 79.
78815752837667676887708379258035 03.p35

63 95- 2.31.6271.6841.16007041.7276280816848801.341325942787302 73.
189909884456431980821.c102

63 59+ 2^6.4957.15714233391032039935117.p79

63 61+ 2^6.121921140573675260771.11175088171868851962194339.p63

63 78+ 2.5.13^2.157.193.397.1613.6277.
24308642775715230733678012161456820416 01.
94717322252678413180294690618518677717 81.p44 [Denny, MPQS]

63 79+ 2^6.5531.309523.650969323.820243275110700598907.
16569550894907480490774378138 7.215763735334230903541471125450747 1.p39
[Montgomery, ECM; Boender, PPMPQS]

63 85+ 2^6.11.137.443.701.2011.254033013499721.99881504018601305939169 1.
35913232029854139393168 91.450705747210209480412359 81.p51

65 58+ 2.349.2113.10202099527368853701895315603 7.p70 [Montgomery, SNFS]

65 64+ 2.30863740016306897121642241128340 49.p83 [Montgomery, ECM]

65 78+ 2.53.157.2113.433681.17846401.411649760653.
21774289614406929996917.39258748896911182436569 3.p64

65 79+ 2.3.11.45233189.31294052020241378072696 3.c111

66 67- 5.13.269.19163.262751771813.28039885577590074391 9.p82

66 81- 5.13.19.109.433.487.541.4423.5563.39910303.
13329319933.32507878377259.576011454061449347819497.
393097836978393299975286844051725 91.p38

66 53+ 67.107.1061.41558467.4184407992037056944231.
38628841569152224765408183.p35

66 59+ 67.516959.164451747019380488953100457686 9.p70 [Montgomery, SNFS]

66 73+ 67.51977.5641434022284215528209.p105

67 67- 2.3.11.269.4021.730837.10960933.
151495488509660402356228791573004 9.p69

67 91- 2.3.11.79.157.5279.175897.522061.313053662923.126867415853933.
121140228256260673784069 3.128951795688463746180899087 29.p68

67 99- 2.3^3.7^2.11^2.31.89.397.19801.1658053.30152894311.
203710056661.1890149702927663.2588141006852497 9.
126467431119400579891.25152082142062851212549519326414 69.p52

67 58+ 2.5.449.1973.475429302637.131768881218084245002085505137.p59
[Arjen Lenstra, PPMPQS]

67 59+ 2^2.17.58057.245715671929457.28020829164464935802242406119.
28402548066325733698407160691.p30 [Boender, PPMPQS]

67 76+ 2.937.10753.31769.1408889.4499809.111358697.251237060797388605801.
31561821602784848683430107844577429025 4513.p45 [Boender, PPMPQS]

67 81+ 2^2.17.19.37.163.4423.31159.215893.128674369.
12256396849.419361622219.8977627086301.
549773389664835412736210048249421933215 11.p45

67 98+ 2.5.197.449.4201.371617.624541.3118080052837.
2469255772339392031213.10279578282652478747427593.p100

67 99+ 2^2.17.19.23.37.199.2179.4423.10891.231859.1011583.
128674369.1239598499009707.78088320271718681.
7059096730975736773 93.22549044987192939329269.p67

67 100+ 2.41.281.937.2281.10753.53401.5022387641.1249312628801.
184901204080120684000 1.51765995078343111426420 1.c97

68 47- 67.532420380710380271214511372540831.p52 [Brent & Keller, ECM]

68 61- 67.160658284528707555370692951932029 7.p77 [Montgomery, ECM]

68 67- 67^2.2939291.1048921527777202484633.p92

68 95- 67.191.457.3041.54721.85577.10485721.21700501.11262858773345981.
135045839624417895 01.25079639001129379803320837.p80

68 58+ 5^3.37.2876650193550608549.5311227911558383576426867436 81.p55

68 67+ 3.23.416075897.1813394616463470622032961.p89

68 68+ 41.521497.56170993.13867852023937.14691746818289338236289.
9625115733670717754307586206809489.p41

68 87+ 3^2.7^2.23.31.15661.91757.19075122136237.306249709725017.
3771118783001168489041.45748303815508077621739269 89.p68

68 89+ 3.23.599149.35877266507.1118083891596247.
5585769596823894852481419 7.p105

68 93+ 3^2.7^2.23.31^2.311.1303.13331.3981517.866449842644534250621 1.
2245453602407358901426923710490370639221775585177.p77

68 96+ 193.8641.8886721.39878593.52508646185194976897.
2901086919538347908106839041.10808296483436666487345971020 9.p79

69 77- 2^2.17.419.1453.3037.3109.9241.35069.38281.35221999.
3339035393.7646104667650387952250996980453.p66 [Montgomery, ECM]

69 64+ 2.2488226819470849.11828196661731412748033.
3854362195853744985024 1.p58

69 87- 2^2.17.1103.3307.4831.199289.6678701.28327259.159286793.
470955155592475006949.12320642973514744834885 03.p76

69 71+ 2.5.7.2131.12781.17609.13093271044107203.4257929443236536737.
1540595803291472448757 1.37328284471728267674995877 9.p34

70 53- 3.23.8065270482236460090947.p75

70 81- 3^5.23.37.1657.3889.4861.1059903991.589047714789665319655161571.
1395743205545940721996748950 03.p69

70 97- 3.23.1769863.20955906313967.
438112486007625823.43179374901768608243159.c118

70 62+ 13^2.29.1101129053.391039294057.9212716042709470834939 7.
3288436727713312382598251701998253.p34

70 67+ 71.197651.458683.1018451856790517.12473243917602506621881 99.p72

70 87+ 59.71.349.4831.7019.8361843239.
4339165792582428700049102 17.56476537654063551106920429541.
1309650871115770577910672000538130249.p46
[Montgomery, p-1; Boender, PPMPQS]

71 77- 2.5.7^2.23.883.3697.22639.21020917.1125438469.143554218709131407.
6902861817667290192729108442204980121.p58 [Dubner, p-1]

71 83- 2.5.7.12451.3579429715865569.38115878606127128603063.p110

71 89- 2.5.7.53669137.1293644801117.971048012563753719841.c123

71 91- 2.5.7^2.883.911.1636363.21020917.886835041.3202878953.
5196608121641.3882322774998252313.27887919387363206472757.p75

71 59+ 2^3.3^2.27118879.900779405751911261.78993160358022469676832549127.p54

71 80+ 2.641.190404353.290886721.92521929281.433220107361.
1095031748345506649537.74354768832647065887790639010396208l.p49

71 81+ 2^3.3^6.19.73.109.1657.2917.26947.198127.282439.522877001113.
49730068812216907.13789032932570637979477.
131084546677759833505592566380078l.p36 [Montgomery, ECM & p-1]

71 94+ 2.2521.143257.428032009.42595882510121864474095 97.p132

72 53+ 73.107.5329416315673.208807002421134351454687665963420115403.p44

72 65+ 11.41.73.131.521.547.23011.46307.58771.32842040219.
39865436109311425721390415997468325725681.p44

72 93+ 73.3163.5113.5277008419.1248843522994363.53077455414049344146122 51.
414454160337256200144421327740700780397 71.p74

72 95+ 11.41.73.2243.58771.885971.273547768779311555491.
11889546739325158478769893413 31.p108

72 97+ 73.3881.218168005786123.89268137546412403.
781429666482717601.205821588056295575979935 3.p102

73 81- 2^3.3^6.19.109.181.1801.20359.5845771.14668471.13909795579.
37427131197853489.2009977828902371214483211.p70

73 85- 2^3.3^2.137.1021.71741.28792661.155072369.909139159.
34140570383.12967740568396231.14722734308685531840841.
19250592558570034555860761.p48 [Montgomery, ECM & p+1]

73 95- 2^3.3^2.2851.3041.15581.48527.67679.28792661.555221041.
1563996781.1141839571451.106995242956289057289081 1.
22698013460334370106164771.p68

73 58+ 2.5.13.41.144396851674547784291823 6813.
19788736375368452459770083706049791973.p40 [Boender, PPMPQS]

73 61+ 2.37.50387.289954641019880677.932700571021098638040617.p66

73 64+ 2.20353.19076619727317467194441217.c90

73 65+ 2.11.37.131.5669.19441.2644669.29055911.1506911267681.
24838018165042116509355114 1.10201177131938982968764170 91.p29

73 67+ 2.37.269.5897.20771.9637951.251409461.199263416662169.
45178000913938437240525503864 09.p53

73 73+ 2.37.459636916558529111235282963785233915709014470880783267 7.p80
[Huizing, SNFS]

73 82+ 2.5.13.41^2.193357.229673309.34042076797.
112861852897776383617492162 21.p96

73 86+ 2.5.13.41.4129.13933.18061.2753549.
8070929.7386946497137444546453.p110

73 94+ 2.5.13.41.5077.8273.12186913.2376784513409.
435534443943920522904037.c121

74 47- 73.27699458426667769672995217.p61

74 87- 7.13.59.61.73.233.17401.22853.
4736801615289553951.10739323591982963442124501.
40427012872135449675860967122923038889 61.p61

74 91- 29.73.1093.58787.22380359.555596887.5739858419.
45010053661.6569223442084213.4579928703662243152366 7.
630045464973369109978612017864 7.p54 [Boender, PPMPQS]

74 95- 73.761.8627.304457.30397351.30852961.59168348971.
5578085178899062387259 41.17088110866617666363859 09.p90

74 53+ 3.5^2.107.6023557.232802779888669898296036822567 7.p59

74 56+ 17.113.4481.69233.170497.378799428782212012296401.
437168372580782413973744497.p38 [Montgomery, MPQS & ECM]

74 68+ 462401.29986577.89799169.10708455804222304455098515910 41.p76
[Montgomery, ECM]

74 79+ 3.5^2.61918147.2146245736890394393893313.p114

74 91+ 3.5^2.953.1009.168491.94842747662501021.
575179649309204419481.26604254463708507384163.c97

75 53- 2.37.107.18030279714813727590084874539683.p65

75 89- 2.37.179.712923109.26734565669740573924433197.p129 [Dubner, p-1]

75 93- 2.37.373.5701.12277.2296729.18938149.63741651301.
64151975518370241199249399 3.40197382488622411827525444554387 3713.p76

75 53+ 2^2.19.97887442243824065717513399797721590364229978 61.p52
[Montgomery, SNFS]

75 58+ 2.29^2.97.1277.792049.393912134930744865902395868548319218 33.p57
[Montgomery, SNFS]

75 59+ 2^2.19.49757179.35324501903585084972584 3.p78

75 64+ 2.224914177.68799038786512319388821350925569.
151113908786421917036806943723393.p48
[Boender, PPMPQS; Montgomery, ECM]

75 71+ 2^2.19.46565209.3927548436882278852601 7.c101 [Dubner, p-1]

75 85+ 2^2.19.1327.1531.10711.7814119.29078671.31224301.
7776741223.12265331599.1240960890576268730161.p85

75 89+ 2^2.19.1069.8663311077317900433187.63815630565875176607863 87.p116

75 91+ 2^2.19.43^2.2731.6007.16381.132523.94990099.3220769917.
39267562275241.17833563645262574879671.c96

75 93+ 2^2.7.13.19.61.1117.85933.599479.929629.10079341.
4037825845717.11761353438989893.333382826990855524948 9.
30385494851654075188760804677099396 9.p57

76 53- 3.5^2.107.5552138646978793697.787248884237115209242200157393 1.p47

76 93- 3^2.5^2.683.1951.6252019.8972965400127301.
42579210885873430410010 99.702721290003650055368049434615 3.c89

76 97- 3.5^2.389.61431847.2773051909.14457328939358853241.
79951814406106143652529507 9.c115 [Dubner, p-1]

76 52+ 17.569.3449.263537.2356447026985918534512 1.p63

76 53+ 7.11.1061.1410440437267.332507171426341041442847.p60

76 56+ 113.241.337.1341217.3443441.
48686995688172205928909204609643275865 29.p47

76 59+ 7.11.709.16993.179243.533712478627.
47158681507470443124014001967222209248 9.p47

76 61+ 7.11.1145093.7401497.697153507.722450352147423876928294478 9.p64

76 64+ 3329.632502515329.26989952536738183783635329.p80

76 65+ 7.11.131.128389.32928901.285468477137495809.
68469727581854208669905431 31.p61

76 71+ 7.11.22721.25561.1838191.2623451.92437763271359374690583.c88

76 96+ 193.769.19346177.48211314087558529.16121357879301096794131 3.
41103848586338995424992613510427872291027201534265 7.p78

77 67- 2^2.19.204887.7827343.72654344170107008443882249.c87

77 89- 2^2.19.179.121662931852937084609.126485886119896947189521.c121

77 91- 2^2.19.53.757.911.1249.47861659.278949511.13891200467.
1365056329785331093.96374551604466041039224 1.c91

77 95- 2^2.19^2.191.4637.66083.388133.35615581.2436403172761391.
3141018192118591.469273734201834941.405928149967513771 1.
12542000407851975670176111215817 11.p52

77 53+ 2.3.13.107.36677.859746631057432071136297 33.
85081018164506899756582278434 39.p35 [Boender, PPMPQS]

77 56+ 2.337.449.2689.5233.262965473.10121506988785763219446577 93.p58

77 67+ 2.3.13.38861.81295354829058924783697429159 19.p90

77 77+ 2.3.13.5413.20063.10255211.1336181169712841.209901342080016148409.p93

77 78+ 2.5.157.593.829.2393.26417.26573.42397.2366053.7765837.
144626910195417124541228033.67355722098906575755356654353233.p51

77 81+ 2.3^5.13.37.1567.1951.21601.348949.1198261.3303829.
74550727.1625573233.263513947859528941.
22210911482889673882434 7.30919313508760414490596570 27.p34

77 98+ 2.5.29.197.593.5461289.1392053978561.
1141997132127045448409.54695004239790005421793.c115

78 71- 7.11.1279.119608589.16914250382532342187651.
30583750282576688740470057 4819.p70 [Montgomery, ECM]

78 87- 7.11.59.523.1451.6163.10093.11833.64381.2629967778089.
2970136500712302512053.55707035189973735821819.
20843241771955692618078 1.p59

78 95- 7.11.31.41.191.29501.25131669779.71888587949.6403618168573.
11150540511160592856932292 91.c107

78 80+ 97.274081.19949249.483587969.16814078881.
2006041300321.2141900414789922435841.p85

78 87+ 79.349.6007.167911.116183250585011.158700668002654067886475189.
48182986551883972861043189489468 51.p78

78 94+ 5.1217.8273.781010093.11635877309726430857.
25655365976898116357.30565409510519482117.p104

78 96+ 193.577.24645865729.8300601922966849.4539080612444648899393.
61073312078187889208175944513694986126159587066596442147 21.p71

78 99+ 19.37.67.79.163.199.397.6007.9439.21011.68311.1965277.1968401734883.
30630448260245967170 41.11128146603111510197765994741784 3.
62081904902590017085970913884646574732 03.p45

79 61- 2.3.13.1470088206121531.516541482119919120251389011 29.
84880272831679697323347713993006 77.p37 [Boender, PPMPQS]

79 71- 2.3.13.3334860272717.17819939508359.
55061768623379715431630488283.p79 [Montgomery, p+1]

79 79- 2.3.13.317.1558537597.171355071830508389477.
54493132908043378263202913.p91 [Wagstaff, ECM]

79 61+ 2^4.5.101265247.19988054291981.406339795899166982883366l.
1196357394461850643354453266906583.p35 [Boender, PPMPQS]

79 62+ 2.3121.1553465677.72788832917566660513.
40356163051214884879485693081341933l533.p47

79 64+ 2.257.1153.19841.1120001.2154881.34208273921.
215386569839518549140714113.463275331474772530343282035l.p35

79 70+ 2.29.1601.3121.152641.6207041.291081421.2037311871464044411349.
14761517080562522712551752655885537901376l.p42

79 80+ 2.1021793.25442332411138694561.
39614439038013713427504l.112626488001782251386217l.p79

79 86+ 2.173.3121.410393.668221.1830253.154770761.
20958563609.29736112673.105972000877474558577693.c88

79 91+ 2^4.5.131.313.547.6343.37844689.912422057.222311290358977.
282849240792301.1423136530102144391.267751585685780139418969313.p70

80 79- 79^2.181113265579.19718355996915670794271102298426l.c103
[Montgomery, ECM]

80 58+ 37.173.121941637.48895060432213.
58740753178054561729269305647493275533296l.p44

80 61+ 3^4.102481.5320657002569.709266127629326324062557357l9.p68

80 62+ 37.173.1489.1613.8427213701681.6187170436809466386950809556849l.p64
[Montgomery, ECM]

80 65+ 3^4.521.1301.40454321.67871088134320987654321.
34168716749191586995287428012l1.p55

80 93+ 3^5.7^2.43.683.132247.4464317552407.344300248085770063.
13666508095430041551560634l.519931989211309831947551387210705714l9.p71

80 99+ 3^6.7^2.23.43.67.4423.8867.2625479407.87381162667.270688839961.
51999634801181.14552306408308029193811.11564342931017754814266l.
11935171798229644025656192643827.p51 [Boender, PPMPQS]

80 100+ 1201.2081.23293201.40960001.765229481571856001.
11262237813143399808671l1.3161130763836981322283400l.c102

82 61- 3^4.539466825906912102863.970273800975810198793l3.p73
[Dubner, p-1; Montgomery, ECM]

82 81- 3^8.19.2269.2593.5347.19927.40357.132157.1956961.3576360169.
131414993533098799813.3575689551585164000764563144607.p59
[Montgomery, ECM]

82 83- 3^4.331337.95736019.27018958129.1945606940604200995787.c112

82 47+ 83.361090123148774568587925298323l.p58

82 52+ 313.45212177.784826661585533810257268488l.p62

82 59+ 83.12037.5003349305691009047543.p86

82 61+ 83.1373272557803015990137.c94

82 65+ 53.83.131.157.191.233861.585391.899159.
12203656388509.23387041636723181171.p65

82 68+ 137.7481.45212177.1470978687089.3065499403698317751553.
924185537858056695686259560184340463860 9.p43 [Boender, PPMPQS]

82 74+ 5^2.269.28819681981150503547806 49.c114

82 89+ 83.14319211.190868539949375144246211 3629.p134

82 91+ 43.53.83.157.38669.180629.899159.12203656388509.
6551045825238966871.1658202212954274190075 7.c97

82 93+ 7.13.73.83.5209.455547823729.182157665915263.17889333238011394700041.
140832821022767145826557853442899872361194 61.p78

83 53- 2.41.107.122289375418709568321774 77.p73

83 71- 2.41.853.10212125386042418786383.p110

83 83- 2.41.2657.11155201.100850570760132334915676948 9.p120 [Wagstaff, ECM]

83 53+ 2^2.3.7.1061.22213946063586852089592167893179761 9.p62
[Montgomery, SNFS]
83 56+ 2.10289.13553.16001.6840289.5468858517063028721502978911873.p58
[Montgomery, SNFS]
83 58+ 2.5.13.53.1514033.91115953886988263631638237.p76

83 64+ 2.4481.9601.418006605129272833.10566898200188433869569.
157005708357848517121017735788460161.p41

83 69+ 2^2.3^2.7.277.691.1289.2269.14868719.
123740629183355101341553615847.126653334448131207592861199712 7.p52

83 71+ 2^2.3.7.3543183809806621.4838657277455495309255 9.c97
[Montgomery, p+1]
83 79+ 2^2.3.7.317.8849.5648659.
438059909707819135381.865867692801688791317.p95 [Dubner, p-1]

83 90+ 2.5^2.13.53.181.241.613.2161.4861.20809.10417501.47451433.
3877668305389.450393067843421.433081718598759804315834 1.
270213819618398588401481604071775331921.p45

83 91+ 2^2.3.7^2.113.197.911.2731.2073121.2820403.37447665332413207.
449855879732140337.42306950549344593420644245 1.p88

83 93+ 2^2.3^2.7.2269.119971.307158218997877404253.
238596223390252661314081.72388140050381165483874 91.
221879191128785139779631347760509508857893.p58 [Boender, PPMPQS]

84 53- 83.6888270050151991.597917147920646215525390305042295218747647.p43

84 69- 37.47.83.193.277.88873.20411397948205858222339.
183914492506746605176860671887982739679387224526553023955943.p38

84 85- 83.101.3061.498881.41323091.3202754101.2193859673250534781.
52447146760048085000140711002911.6218272796370530483675222621221.p54

84 87- 37.59.83.193.993367.17029966233667.7712615417181253823791.
76375735390695067192442904289123685323 7.
290404375241336685040063607647451761576 9.p41 [Boender, PPMPQS]

84 93- 37.83.193.1117.190993075212913.
362239718191301029.7251855431903862770502 1.
283505934435581001216732027076187148064826 77.p72

84 95- 83.101.498881.2078753.27643481.20436490956722362771.
498378772882721787199081.211069486616209155646738072 37.c89

84 53+ 5.17.107.88874399854793717.847470140789797092110542481.p55

84 65+ 5^2.11.17.271.3301.121958421052367004564733.
421867280708399481244229 21.3552277153355420913454596146190 71.p35

84 71+ 5.17.15837119.6499874486385417337237.1400442648963873478350251.
133184106044570646620234096956423.p50 [Boender, PPMPQS]

84 77+ 5.17.23.347165113597.751493770656900107.217749291259749458749.c96

84 80+ 414977.816769.29916001.42887777.422680067617.
312677776854788321.3863155405893570253844 81.p75

84 82+ 7057.5104876734569.29071871041325883973.30004602959586575909.p103

84 85+ 5^2.11.17^2.271.3301.8501.154464856831283612127973308 91.
35717414678114465753982247582 1.c92 [Dubner, p-1]

84 88+ 673.15137.40045457761.3683148456289.157759434072769.
41547226873454249729.546306935281973320057629841.
519871528668514659091709425 7.p51

84 90+ 13.41.61.181.2381.4357.7057.2058841.3829237.416197681.
283246056958744176 13.95349961122240600258397863301.
614511652237970260967630258 4721.p55

84 95+ 5^2.11.17.191.271.3301.20939.3426119.27969901.
52762051.59261698224389.675740071681471466340327 1.p107

84 96+ 449.45121.2936890241.15398245441.256264545281.
866886861130177.319670343495409537.2856100170514349249.
468999648091889417548 9.203509304869225708186434149548 9.p44
[Montgomery, ECM]

85 53- 2^2.3.7.107.8203033181339714647300481760400492096456022986 07.p51
[Montgomery, SNFS]

85 61- 2^2.3.7.1709.959138381.21208648252153.
20443050960147039445184005567.p63

85 65- 2^2.3.7.17291.52822061.8324279184997583471.
463119024032508093656641365l.p65 [Montgomery, SNFS]

85 73- 2^2.3.7.10771589.647261707763917.478514681375515340527.
392836124647246761540329.119452508988281137696069463 21.p45
[Boender, PPMPQS]

85 77- 2^2.3.7^2.23.331.134443.191071.2546237.13695512557.
54519912973.9574870296065221444943 9.p82

85 49+ 2.43.113.3298796957.375876428537647442083692187333500336247 1.p42

85 58+ 2.1973.3613.107881.10800749343742479792389.
434454022393625580902321888458684 1.p45 [Boender, PPMPQS]

85 68+ 2.41.137.337.1889.112463189495079464112820843636795 13.p88
[Montgomery, p-1]

85 84+ 2.41.337.673.1873.1889.14449.217489.6689233.61807441154215373401.
486405391922154778302937.417853034519604425165658163094593.p56
[Montgomery, ECM]

85 91+ 2.43.113.873419.942709.3298796957.170744724671.
581215725762627104008513113 7.c111

85 99+ 2.37.43.67.89.193.199.397.419.1607.1783.4159.127579.
949997233.1631686607.61669088713.699929929521261548351551.
458778794854196856772436051063 7.p75 [Montgomery, p-1]

86 53- 5.17.107.624972571744786740194742472600714 39.p64 [Montgomery, SNFS]

86 77- 5.17.379.463.617.24179.761531.
1080018073.198397549967.22390512687494871811.
135497890432087828757018337065183642667872453.p45 [Sosnowski, MPQS]

86 56+ 113.61057.149921.326881.583114533685641932017.p71

86 58+ 13.569.38629.50222072484020018055838757.
129094951090723152084884804969621.p47 [Boender, PPMPQS]

86 67+ 3.29.3612271501.343596395614661316577.c98

86 68+ 137.7129.7673.4232593.263879849.
132139393335687215569.946870535969566868868961377.p62

86 74+ 13.569.3109.696197471618461.5289703145538433673693.
54364334181729325511337533.p74

86 85+ 3.29.41.3911.1318831.1935281.113271378251.31340873638421.
315675440930537161668 1.749746510472719509270088 1.
88502271719180801461446075298 1.p43 [Dubner, p-1; Brent, MPQS]

86 88+ 353.12497.61057.149921.326881.1056743978753.
85302903935423147222428009 7.c110

87 73- 2.43.1753.2180556073006521365676397.c113

87 91- 2.43.79.342889.26494339.130598833.438668366137.
90880697724181.35122470482816904187183.p104

87 93- 2.13.19.31^2.43.10789.89109439.588842447957.
310075367684506654831.29558035126935051608598163990471617677 9.p91

87 49+ 2^3.11.428698630543.32586131573880554950399737818319 1.p49

87 62+ 2.5.757.4217.400563855701.10413388541195857726488 61.
24107729958181052796200177572849319 41.p41

87 65+ 2^3.11.131.151.443.2003.375091.
209499473746622749.192332125074381492226 1.p70

87 70+ 2.5^2.41.197.701.757.2341.92317.6838193281.10337743401241313.
3842711687217470621.456733465483466438396179104755692741.p37
[Boender, PPMPQS]

87 77+ 2^3.11^2.89.463.2971.1097987353.428698630543.
8443913253667.50449463184737.2145112065011784744157513 1.
5161509581558096352407177710 3.p37 [Boender, PPMPQS]

87 88+ 2.2113.27457.37361.909284993.43924369201.
787526070373346993170489921.c112 [Dubner, p-1]

87 99+ 2^3.7.11^2.67.89.199.397.1009.1069.2971.6211.9967.69193.
2407219.6088699.67284291889.8443913253667.5771374584900871.
2194420122938555321041.p84

88 59- 3.29.58851220409.7725521132266118912657.p81

88 58+ 5.1549.13371212353.44799531828170304797849114157924326540503453.p56
[Montgomery, SNFS]

88 78+ 5.37.53.157.313.1549.848849.1620589.2998997.141186602129.
2441474682589859476873.93152340206481278952918 1.p65 [Dubner, p-1]

88 85+ 61.71.89.6257.13691.98737.993481.675903307.5263358951.
30625611289787.147167342361614746881 1.40835958833675091391031.
43722530020252396296833010211.p37 [Boender, PPMPQS]

88 89+ 89^2.407987015619859919.34157350625398046867.
67108459912186790985737.p110

88 98+ 5.1549.286188251441.64001676103429.93302370467461.
4678151437433860849.4787272673461127236297.
215643309319960967180737.p84

89 49- 2^3.11.502628805631.184091274583648974139291062968551.p50

89 53- 2^3.11.107.1851821.13254129233417996561269.
267694193510397744911116957.p45 [Boender, PPMPQS]

89 67- 2^3.11.171253.2516667443363477227.233220390708728945510 9.
1734546038685607265716888388635135765150 3.p44 [Boender, PPMPQS]

89 81- 2^3.11.73.109.8011.266367259.6807972547.
3841288505945752455073.42277838940870551635998 61.p84

89 93- 2^3.11.311.1117.8011.294082927.
510212029609.1548833765803.45581006170910981086444 27.
88266106870528037573392142012800765708045277877987 73.p60

89 53+ 2.3^2.5.41023.1472319649.279342654341701943919635651.p62

89 64+ 2.257.769.211073.443789979316995682177.153316525308739316934017.
24415283691066290282745203 3.p44 [Boender, PPMPQS]

89 71+ 2.3^2.5.5981609.3837161497390813550891.2448134670738061056934 1.p86

89 73+ 2.3^2.5.108627797.2588878009886986271.57661436440314954151.p95

89 74+ 2.17.149.233.15855599753721406213361.c116 [Dubner, p-1]

89 79+ 2.3^2.5.33181.1123045757479.28032870649840319321659.c114
[Dubner, p-1]

89 81+ 2.3^6.5.7.19.163.373.1459.163205767.166111399.
8718957649.1306087722019.16882786837631946853935 1.
3402182151065819029541072419 81.p53

89 96+ 2.193.2113.14657.254209.1380289.33636481.38611201.
356028464377153.4029994312437697.29584120708058315653717121.
28404496565920646301215443 21.p68

90 67- 89.766398825481.9059751671298162413.10352439048585963344766 7.p76

90 69- 89.277.1289.1427.8191.238879.227068662973.
99810365260096801591.12884520863384224540819554769.p56

90 85- 89.281.236111.71041879.1885164443.4559542121.139916513426003.
759189770413511.1287593068182741791.24032487045691704495521539 51.p56

90 87- 89.8191.5745307.12029459824653037000298387.
16070112433340009104500348 1.15896409689085203242013831809.
43994323205288100186563019 5693.p49

90 53+ 7.13.743.18127.23321.9489924173557135357172998117171.p60

90 59+ 7.13.1063.443917.7175019338267903.127851366937703287420357.p66

90 85+ 7.11.13.103.571.10133.10331.32063.10568527.51818803933489.
58218277989371.14130796360868003101001.c90

90 91+ 7^2.13^2.53.157.449.606607.25392641.167229077.
4256816590001.3797755755452569.23600091863117277039589331.
65521176600414601804948865 3.17279376756323681612726728 9063.p37

90 96+ 193.769.699520193.56689410049.8330734280131598017.
1665225757947418864549124217 7.257015063438823952763368170817.
3022361286167984952582759234318700 81.p51
[Montgomery, ECM; Brent, MPQS]

91 67- 2.3^2.5.15277.560676495103249543.12443384968544192232347.p86

91 79- 2.3^2.5.22279.27708180499.277416556367197964829157.p115

91 49+ 2^2.23.29.19368853799.19734773814151939089148966003 93.p52

91 53+ 2^2.23.107.939199905931655649629236896028155585322297 39.p56
[Montgomery, SNFS]

91 58+ 2.41.101.192189961.3396039829069.29533432745435234769437981954 57.p59
[Arjen Lenstra, PPMPQS]

91 64+ 2.1153.9484137857.1262827566337.1385974681247149313.
8875512746067091578572 9.249581554366319519739942707201.p30

91 69+ 2^2.23^2.47.691.8191.487981440901001.
2354697902932170497247721 1.412171736984581358984433092276 23.p52

91 74+ 2.41.101.149.6217.1227103447489278297 7.785629489775752252209661.p93

91 99+ 2^2.19.23.73.397.991.1123.6247.8191.65539.309277.5692910095027.
3851833342255193295 1.505998396530507335774870641 43.
4414142252331501646741496953231.p71

92 47- 7.13.1043213.4393258024989496974484 1.p62

92 59- 7.13.130549301.17794510771179436032645461 3.p80

92 61- 7.13.18830579.31554569.271578918735040633.2149598116826467035908 81.
1919118227926860644011031039 81.p34 [Montgomery, ECM]

92 77- 7^2.13.67.2311.9241.159293.549767.70930159351591.
2830983627125062816456771 27.p89

92 85- 7.11.13.41.160591.19907681.523699469143.2554164508667.
10457508510821.318161607693540708996913621.c87

92 53+ 3.31.413487508169626263116944826462600150122657890364 3.p54
[Montgomery, SNFS]

92 58+ 5.1693.337781842637950869637.
6626558993887147623735118796231412419509.p50 [Arjen Lenstra, PPMPQS]

92 64+ 29569.937392635769275109720833.p98

92 72+ 17.1153.125617.163980913.301893454786801.1109006809493857.
4004513917630961078442281 77.13097070384913951783688630753208 1.p36

92 73+ 3.31.76990181.151208843.175251977.54805309075642117957.p98

92 80+ 75521.487489.1294081.234342416697530081.2117112571355455285486176 1.
5403067797316217343551891 3.140847249527735303607758632321.p43

92 84+ 281.449.673.94777.159553.1550753.2040193.54150148873.
571933838897.54239179064690982372771964 1.
24651527156587484288308809948243436390198 33.p43

92 87+ 3^2.31.59.349.1567.2791.187573.472469.
6446372437608695088883.10127992394070979564027.
628411741359943372493232295836064870462577.p61 [Boender, PPMPQS]

92 95+ 3.31.151.469331.2916092290021.11380284618168161.19379057316609181973.
87627378840412698003491132 21.p101 [Montgomery, p+1]

93 47- 2^2.23.941.709824060593177335902196836771387569 39.p50

93 53- 2^2.23.53551837.39288830696483057447.p76

93 99- 2^2.7.19.23.67.89.307.1249.1783.2179.11243.31527541.
110919079.33579740503.48893642129509.17637300797804158757023.
472666715689349516409031.346673259388800825479161336008 1.p55

93 53+ 2.47.107.1697.66463.7200157.
191926998695502533890959785501678281 73.p49

93 59+ 2.47.87557.414889.12083083.19453745832462646710891828900 61.p67
[Montgomery, ECM]
93 64+ 2.769.1153.87041.261862052609.3694978116380869889.
148324960671376917001170219902369341986433.p44

93 71+ 2.47.569.1847.8237.19769433071135659777.44726732058017538313849607.
187159889169520795280293924847455 7.p50 [Boender, PPMPQS]

93 83+ 2.47.499.1993.2455307.40601941.
22878602972021.66615542090436822705899.c106

94 47- 3.31.109793.67225173916237280742333776 3.p59

94 67- 3.31.10042365595007524029536558 3.c105

94 97- 3.31.389.1747.5821.67353697.20058398027810183201.
9812928379049068526833.831342833644764790915194 7.c106

94 47+ 5.19.22279.2461879762423243038668 57.92930203892950674457339 9.p40

94 58+ 929.8837.21528578856552613331758474 9.p82 [Montgomery, SNFS]

94 61+ 5.19.4238281.5018274493160363.62117562558779930627305 7.p73

94 68+ 17^2.137.409.5441.4592641.50597849.108829197325897050143209.p86

94 93+ 5.7.19.1249.4651.48733.6896261.13267381.8434732199261.
352153660378171.2825593093592083.70902254836553857.
315447870958699927924365271.p69

95 49- 2.47.742912017121.26680208956864317266745896213341467762685 1.p42

95 53- 2.47.30636863.429521963927223727460311.
77742129575018807483006681285339.p40 [Boender, PPMPQS]

95 59- 2.47.188801.2647996912138688405753.c89

95 65- 2.31.47.53.61.101.431.160681.10303935834594643009757.
22499826460568814294276301.p65

95 69- 2.7.47.1303.11317.6099371.10737957332273321.
49923881488046283633 1.24853953553501562213 9533.p60

95 73- 2.47.293.877.4673.1716168973.88785471967.100991307611.13095871909823.
21536261658651604313 6734973503543.p57 [Sosnowski, MPQS]

95 47+ 2^5.3.147299.191679544136297085921441555349531 9.p53
[Brent & Keller, ECM]

95 59+ 2^5.3.2833.254700271723.2764614209155534746799.
46344990652085596276653 7779089.p49 [Montgomery, ECM & p+1]

95 62+ 2.4513.184296453763149753123068189.c93 [Montgomery, p-1]

95 71+ 2^5.3.284295626179975541.64227585121659404371046707.c96

95 79+ 2^5.3.317.12415290501157.475910418041586627787.c118

95 80+ 2.139361.241441.1901761441.4740322802977.4642370223978828769.
611951334156673698241.450897580997918678316374862447596670 41.p49
[Boender, PPMPQS]

95 85+ 2^5.3.11.103.311.23561.8195021.1075346110691.1978585518583.
213716476796014769.922044896494029899750851.
281289638163607011615897272191705681.p49

95 87+ 2^5.3^2.13.229.349.523.1820969.3536196872066707.
215371288505438813430607.6988317746081737807072328981509.p85

95 91+ 2^5.3.127.1093.2003.12377.25117.5727832153.6003873331.9045912887467.
266965220543926357727.24501227150456807755034677 93.p81

95 93+ 2^5.3^2.13.229.216743011.603776225641.749626729897.1705032931779013.
49440158420444293.20632495124092679742583042244 3707.
27066120609767132805875669860718934886 33.p43

96 79- 5.19.2213.1970515487.195280730961194975807.p122

96 93- 5.19.67.139.441937.20693963570947.100605444393211.95355785680634543.
23691432746760780929665 9.13447095696302014226254656 1.
30953950682891990821056701597.p51 [Boender, PPMPQS]

96 53+ 97.107.15430424857451.231678025981918694295431455546730 41.p54

96 59+ 97.1128553.24335023.3551346850619.12936350749337580776597.p67

96 91+ 29.53.79.97.443.421279.26713383509.776028725239.
329603812319885860849.p123 [Dubner, p-1]

96 95+ 11.97.2671.2861.4447.7639.43254697035227.
323031429688091.18678603767474551.29726301838260871.
426717095494251487736962l.241847699068879601458189083l.p58
[Dubner, p-1; te Riele, MPQS]

97 81- 2^5.3^5.109.163.1153.3169.7129.94336327.240813217.
1191351082918035367.187354660696980852793328 83.
27885623692527731300450689 9.p57

97 47+ 2.7^2.1289964727.126022640156104532932649638952319832 73.p46

97 58+ 2.5.941.72617.1423901.75332940401.
123093637925039887516471947128929.p58 [Arjen Lenstra, PPMPQS]

97 59+ 2.7^2.142493969.14166793643345394367439027.p82

97 62+ 2.5.373.941.59273.11897046527781138478272137518 7869.p80
[Montgomery, ECM]

97 67+ 2.7^2.269.2011.384581.1574501.1518924844504411.
614351464575168613106999257.p72

97 70+ 2.5^2.29.941.14869.15541.103527550008317.
1567320142178381.284225985943330650521.p75

97 79+ 2.7^2.7901.779321264864104832312057.
5176524352482729069165373.c103 [Montgomery, p+1; Dubner, p-1]

97 95+ 2.7^2.3931.4561.22291.778051.593222898884496505984481.
713428557507196622404413721.735239464611390368629403564683.c89

97 98+ 2.5.29.941.14869.15541.236377.2865142309.94714419462041.
103527550008317.2717627312508473.4837515647801870647517.
394691811469267364982735233.p75 [Montgomery, ECM & p+1]

98 53- 97.955697.36265021366481.219418610830984395903548049384447743616 7.p45

98 81- 31.97.313.328768633.1547829271.885843322057.
449103362936100593060685223.171372083726607702114125114461 99.p68
[Montgomery, ECM]

98 53+ 3^2.11.107.1697.266972873.628497076573149095788432070857.p61

98 56+ 1249.6811553423393.957829669333799018561465 93.p70

98 59+ 3^2.11.305857.291788015339.11230052393249.
290370474482098105894756472922 91.p55

98 69+ 3^3.11.139.3169.126041.230507.7092649.308006668689852742992203489.
462193137180723704170653896405596993.p50 [Montgomery, ECM]

98 72+ 1249.2593.6811553423393.143720156259649.
279135256688197358151306836 17.76265829428582445883785020346500737.p47

98 91+ 3^2.11.521.547.16787.116923.8571473.52236521.54420092273.
605579541659.12751642138057577.67774615653462330734027233 7.
150856027763097994901861400756223948651.p47

98 95+ 3^2.11.761.1481.11971.14251.61651.1665161.35380091.
86855212802144559307723829 71.68811376185847711082012070630250938 7.p91
[Dubner, p-1]

99 65- 2.7^2.53.131.157.97039801.1734834401.821456624786426851.
55078016026833244103946049 7501.p57 [Montgomery, ECM]

99 71- 2.7^2.14627.158047.15490781.482044561.17179549507.
67876139244301234258 19.21230690703601925158337181 79.p56

99 77- 2.7^3.397.12979.5526137.10468417.113089684775453.32982101201754013.
230128580234081233.869852018909163044236114543981 6553.p49

99 95- 2.7^2.571.3041.97039801.2334201491.25872120641.39740734591141.
37151009801325375691.207055472356835604911.p101

99 47+ 2^2.5^2.132608787405171329853607002962543543419 31.p52
[Huizing & Montgomery, SNFS]

99 53+ 2^2.5^2.4571887.285543362926494449131396642507.
154318927633938429301426721027 8307.p35

99 61+ 2^2.5^2.53681.315150541115619161845399 81.c90

99 65+ 2^2.5^3.521.2861.19019801.168430138771395007 2653.
10171089960370790140312481.p68 [Montgomery, SNFS]

99 67+ 2^2.5^2.232105698061110266693.c112

99 76+ 2.2617.18353.26033801.677502728081.13702449083684826241681.c103
[Dubner, p-1]

99 91+ 2^2.5^2.521.6007.932065347907.168430138771395007 2653.
56975851191334600284 77.6961703058707154579277.p97