**The Largest Known Primes' database search output:**

| rank | description | digits | who | year | comment |
|---|---|---|---|---|---|
| 1 | 2^43112609-1 | 12978189 | G10 | 2008 | Mersenne 47?? (**) |
| 2 | 2^42643801-1 | 12837064 | G12 | 2009 | Mersenne 46?? (**) |
| 3 | 2^37156667-1 | 11185272 | G11 | 2008 | Mersenne 45?? (**) |
| 4 | 2^32582657-1 | 9808358 | G9 | 2006 | Mersenne 44?? (**) |
| 5 | 2^30402457-1 | 9152052 | G9 | 2005 | Mersenne 43?? (**) |
| 6 | 2^25964951-1 | 7816230 | G8 | 2005 | Mersenne 42? (**) |
| 7 | 2^24036583-1 | 7235733 | G7 | 2004 | Mersenne 41? (**) |
| 8 | 2^20996011-1 | 6320430 | G6 | 2003 | Mersenne 40? (**) |
| 9 | 2^13466917-1 | 4053946 | G5 | 2001 | Mersenne 39 (**) |
| 10 | 19249*2^13018586+1 | 3918990 | SB10 | 2007 | (**) |
| 11 | 27653*2^9167433+1 | 2759677 | SB8 | 2005 | (**) |
| 12 | 28433*2^7830457+1 | 2357207 | SB7 | 2004 | |
| 13 | 33661*2^7031232+1 | 2116617 | SB11 | 2007 | (**) |
| 14 | 2^6972593-1 | 2098960 | G4 | 1999 | Mersenne 38 (**) |
| 15 | 6679881*2^6679881+1 | 2010852 | L917 | 2009 | Cullen |
| 16 | 1582137*2^6328550+1 | 1905090 | L801 | 2009 | Cullen |
| 17 | 258317*2^5450519+1 | 1640776 | g414 | 2008 | |
| 18 | 3*2^5082306+1 | 1529928 | L780 | 2009 | Divides GF(5082303,3), GF(5082305,5) (**) |
| 19 | 5359*2^5054502+1 | 1521561 | SB6 | 2003 | |
| 20 | 265711*2^4858008+1 | 1462412 | g414 | 2008 | |
| 21 | 3*2^4235414-1 | 1274988 | L606 | 2008 | |
| 22 | 24518^262144+1 | 1150678 | g413 | 2008 | Generalized Fermat |
| 23 | 938237*2^3752950-1 | 1129757 | L521 | 2007 | Woodall |
| 24 | 485767*2^3609357-1 | 1086531 | L622 | 2008 | |
| 25 | 5*2^3569154-1 | 1074424 | L503 | 2009 | |
| 26 | 7*2^3511774+1 | 1057151 | p236 | 2008 | Divides GF(3511773,6) (**) |
| 27 | 3139*2^3321905-1 | 999997 | L185 | 2008 | |
| 28 | 4847*2^3321063+1 | 999744 | SB9 | 2005 | |
| 29 | 113983*2^3201175-1 | 963655 | L613 | 2008 | |
| 30 | 3*2^3136255-1 | 944108 | L256 | 2007 | |
| 31 | 5*2^3059698-1 | 921062 | L503 | 2008 | |
| 32 | 2^3021377-1 | 909526 | G3 | 1998 | Mersenne 37 (**) |
| 33 | 7*2^3015762+1 | 907836 | g279 | 2008 | (**) |
| 34 | 4348099*2^2976221-1 | 895939 | L466 | 2008 | |
| 35 | 2^2976221-1 | 895932 | G2 | 1997 | Mersenne 36 (**) |
| 36 | 7*2^2915954+1 | 877791 | g279 | 2008 | Divides GF(2915953,12) [g322] (**) |

37 222361*2^2854840+1 859398 g403 2006
38 1372930^131072+1 804474 g236 2003 Generalized Fermat
39 1361244^131072+1 803988 g236 2004 Generalized Fermat
40 1176694^131072+1 795695 g236 2003 Generalized Fermat
41 342673*2^2639439-1 794556 L53 2007
42 572186^131072+1 754652 g0 2004 Generalized Fermat
43 3*2^2478785+1 746190 g245 2003
Divides Fermat F(2478782), GF(2478782,3), GF(2478776,6), GF(2478782,12)
44 81*2^2468789+1 743182 g418 2009
45 26773*2^2465343-1 742147 L197 2006
46 5*2^2460482-1 740680 L503 2008
47 386892^131072+1 732377 p259 2009 Generalized Fermat
48 737*2^2382804-1 717299 L191 2007
49 1183953*2^2367907-1 712818 L447 2007 Woodall
50 127*2^2346377-1 706332 L282 2009
51 275293*2^2335007-1 702913 L193 2006
52 3*2^2312734-1 696203 L158 2005
53 450457*2^2307905-1 694755 L172 2006
54 3*2^2291610+1 689844 L753 2008
Divides GF(2291607,3), GF(2291609,5) (**)
55 130816^131072+1 670651 g308 2003 Generalized Fermat
56 27*2^2218064+1 667706 L690 2009
57 19*2^2206266+1 664154 p189 2006
58 5077*2^2198565-1 661838 L251 2008
59 114487*2^2198389-1 661787 L179 2006
60 196597*2^2178109-1 655682 L175 2006
61 7*2^2167800+1 652574 g279 2007
Divides Fermat F(2167797), GF(2167799,5), GF(2167799,10) (**)
62 3*2^2145353+1 645817 g245 2003
Divides Fermat F(2145351), GF(2145351,3), GF(2145352,5), GF(2145348,6), GF(2145352,10), GF(2145351,12)
63 23*2^2141626-1 644696 L545 2008
64 7*2^2139912+1 644179 g279 2007
Divides GF(2139911,12) (**)
65 62722^131072+1 628808 g308 2003 Generalized Fermat
66 563528*13^563528-1 627745 p262 2009 Generalized Woodall
67 1003*2^2076535-1 625103 L51 2008
68 9*2^2060941-1 620407 L503 2008
69 121*2^2033941-1 612280 L162 2006
70 251749*2^2013995-1 606279 L436 2007 Woodall
71 467917*2^1993429-1 600088 L160 2005
72 137137*2^1993201-1 600019 L321 2007

| | | | | | |
|---|---|---|---|---|---|
| 73 | 17*2^1990299+1 | 599141 | g267 | 2006 | |
| | Divides GF(1990298,3) | | | | |
| 74 | 25*2^1977369-1 | 595249 | L426 | 2008 | |
| 75 | 121*2^1954243-1 | 588288 | L162 | 2006 | |
| 76 | 214519*2^1929114+1 | 580727 | g346 | 2006 | |
| 77 | 27*2^1902689-1 | 572768 | L1153 | 2009 | |
| 78 | 345067*2^1876573-1 | 564911 | g59 | 2005 | |
| 79 | 13*2^1861732+1 | 560439 | g267 | 2005 | |
| | Divides GF(1861731,6) | | | | |
| 80 | 137*2^1849238-1 | 556679 | L321 | 2007 | |
| 81 | 15*2^1837873-1 | 553257 | L632 | 2008 | |
| 82 | 3*2^1832496+1 | 551637 | p189 | 2007 | |
| | Divides GF(1832490,3), GF(1832494,5) (**) | | | | |
| 83 | 21*2^1830919+1 | 551163 | g279 | 2004 | (**) |
| 84 | 33*2^1813526-1 | 545928 | L621 | 2008 | |
| 85 | 417643*2^1800787-1 | 542097 | L134 | 2005 | |
| 86 | 357659*2^1779748-1 | 535764 | L47 | 2005 | |
| 87 | 5*2^1777515+1 | 535087 | p148 | 2005 | |
| | Divides GF(1777511,5), GF(1777514,6) | | | | |
| 88 | 5077*2^1753317-1 | 527805 | L251 | 2008 | |
| 89 | 1179*2^1750847+1 | 527061 | g387 | 2009 | |
| 90 | 253*2^1722623-1 | 518564 | L145 | 2007 | |
| 91 | 121*2^1695499-1 | 510399 | L62 | 2005 | |
| 92 | 19*2^1684813-1 | 507181 | L503 | 2008 | |
| 93 | 15*2^1667744+1 | 502043 | g279 | 2007 | (**) |
| 94 | 149183*2^1666957+1 | 501810 | g346 | 2005 | |
| 95 | 63*2^1659338-1 | 499513 | L503 | 2008 | |
| 96 | 61*2^1654383-1 | 498021 | L503 | 2008 | |
| 97 | 68*23^365239+1 | 497358 | p261 | 2009 | |
| 98 | 69*2^1649423-1 | 496528 | L621 | 2008 | |
| 99 | 469949*2^1649228-1 | 496473 | L160 | 2007 | |
| 100 | 81*2^1643428+1 | 494724 | g418 | 2009 | Generalized Fermat |

Used 0.8818 second(s) to find 100 primes matching the selection criteria:
Number of primes to find 100. Query required 0.8595 seconds.