

The results were computed using a Linux pc equipped with one AMD Athlon™ 64 X2 Dual Core Processor 3800+, 2 GHz, Linux Debian 4.1.1-15, gcc-4.1.2 20060928 (prerelease) and

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GP/PARI CALCULATOR Version 2.3.2 (released)
amd64 running linux (x86-64/GMP-4.2.2 kernel) 64-bit version
compiled: Nov 30 2007, gcc-3.4.3 20041212 (Red Hat 3.4.3-9.EL4)
(readline v4.3 enabled, extended help available)
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Type ? for help, \q to quit.

Type ?12 for how to get moral (and possibly technical) support.

parisize = 8000000, primelimit = 500000

and gp2c v. 0.0.pl6.

The remaining cases computed using the PARI/GP parameter REALPRECISION = 120.

Total computation time: 78 hours, 14 minutes and 13 seconds (about 3 days, 6 hours and a quarter).

$q$	min	sec	millisec
3	0	6	940
4	0	7	0
5	0	24	847
6	0	7	151
7	0	48	811
8	0	25	5
9	0	45	898
10	0	25	366
11	2	30	677
12	0	31	471
13	3	20	948
14	1	2	670
15	1	32	27
16	1	39	935
17	5	52	186
18	0	58	698
19	6	50	175
20	1	41	462
21	3	30	191
22	2	58	904
23	11	37	173
24	1	56	593
25	9	18	400
26	3	58	454
27	7	6	272
28	3	53	864
29	18	38	926
30	1	50	291
31	23	45	17
32	7	22	137
33	10	4	957
34	7	50	330
35	13	14	555
36	4	13	646
37	33	6	950
38	9	5	631
39	13	57	171
40	7	28	40
41	44	55	88
42	4	24	332
43	48	59	246
44	12	35	467
45	13	47	469
46	14	29	672
47	60	50	797
48	7	53	163
49	45	39	758
50	11	39	127

$q$	min	sec	millisec
51	29	25	571
52	19	6	928
53	79	5	343
54	9	33	627
55	41	45	705
56	17	41	370
57	34	28	688
58	25	9	176
59	102	27	628
60	8	42	535
61	118	9	317
62	31	34	958
63	34	59	494
64	33	49	66
65	67	3	247
66	13	13	81
67	141	47	623
68	38	44	298
69	57	43	320
70	17	26	562
71	171	39	351
72	20	13	205
73	179	48	178
74	46	50	902
75	48	43	8
76	48	13	143
77	101	29	440
78	19	39	952
79	210	45	567
80	37	10	70
81	91	25	308
82	62	42	165
83	253	18	34
84	21	45	874
85	140	16	678
86	67	55	52
87	107	21	530
88	62	7	574
89	286	59	84
90	18	83	903
91	166	24	507
92	81	26	513
93	129	20	312
94	89	22	541
95	174	50	481
96	39	49	616
97	362	31	972
98	66	54	578
99	109	9	420
100	65	13	716

Computation time for Mertens' constants  $B(q, a)$  to the modulus  $3 \leq q \leq 50$  (left table) and  $51 \leq q \leq 100$  (right table).