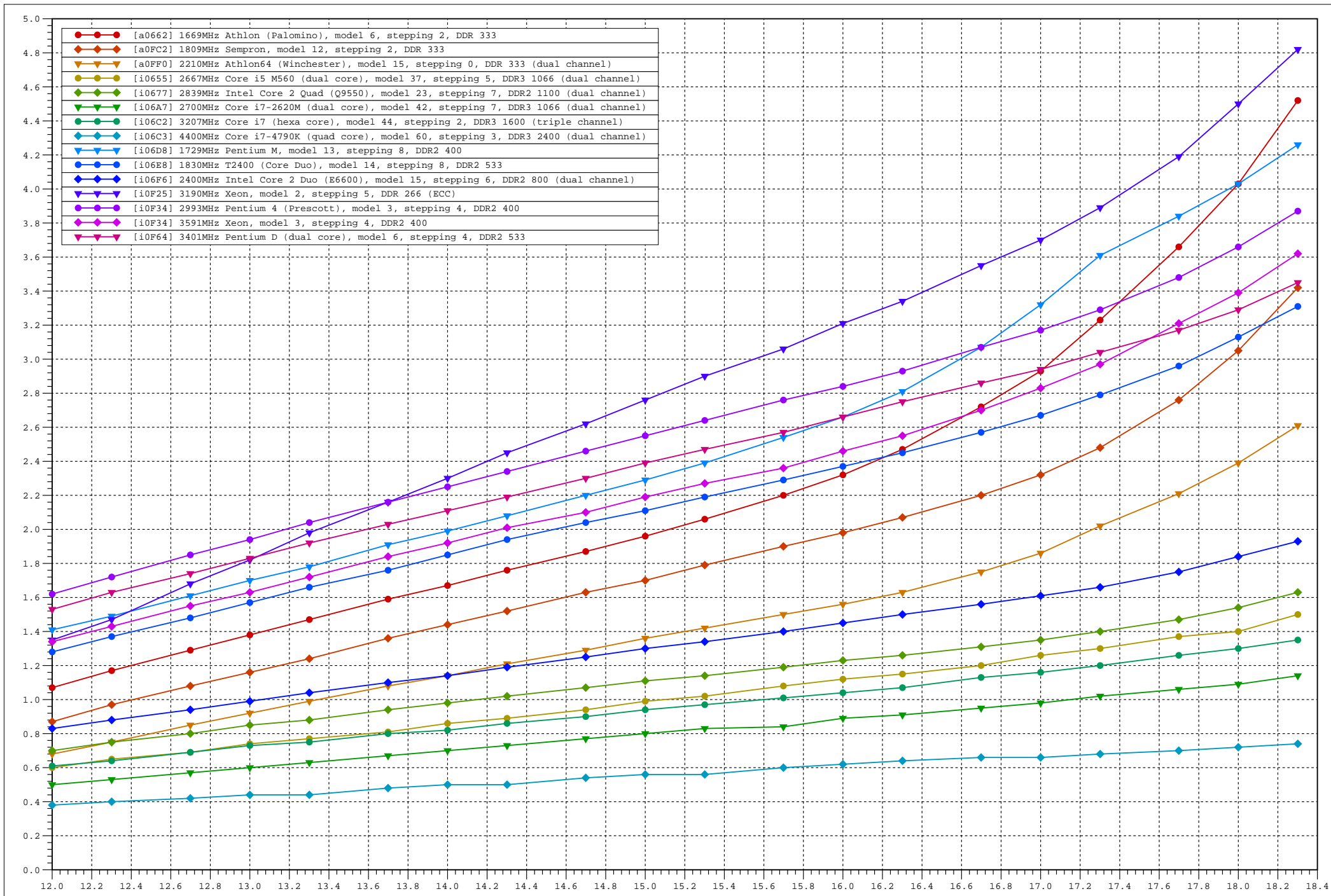Best times (in seconds) required to sieve an interval of 1e9 centered at 10^x (one core, 32-bit code, initialization time not accounted for)

Legend:
- [a0662] 1669MHz Athlon (Palomino), model 6, stepping 2, DDR 333
- [a0FC2] 1809MHz Sempron, model 12, stepping 2, DDR 333
- [a0FF0] 2210MHz Athlon64 (Winchester), model 15, stepping 0, DDR 333 (dual channel)
- [i0655] 2667MHz Core i5 M560 (dual core), model 37, stepping 5, DDR3 1066 (dual channel)
- [i0677] 2839MHz Intel Core 2 Quad (Q9550), model 23, stepping 7, DDR2 1100 (dual channel)
- [i06A7] 2700MHz Core i7-2620M (dual core), model 42, stepping 7, DDR3 1066 (dual channel)
- [i06C2] 3207MHz Core i7 (hexa core), model 44, stepping 2, DDR3 1600 (triple channel)
- [i06C3] 4400MHz Core i7-4790K (quad core), model 60, stepping 3, DDR3 2400 (dual channel)
- [i06D8] 1729MHz Pentium M, model 13, stepping 8, DDR2 400
- [i06E8] 1830MHz T2400 (Core Duo), model 14, stepping 8, DDR2 533
- [i06F6] 2400MHz Intel Core 2 Duo (E6600), model 15, stepping 6, DDR2 800 (dual channel)
- [i0F25] 3190MHz Xeon, model 2, stepping 5, DDR 266 (ECC)
- [i0F34] 2993MHz Pentium 4 (Prescott), model 3, stepping 4, DDR2 400
- [i0F34] 3591MHz Xeon, model 3, stepping 4, DDR2 400
- [i0F64] 3401MHz Pentium D (dual core), model 6, stepping 4, DDR2 533

Best times (in seconds) required to sieve an interval of 1e9 centered at x (one core, 32-bit code, initialization time not accounted for)

Processor name	1e12	2e12	5e12	1e13	2e13	5e13	1e14	2e14	5e14	1e15	2e15	5e15	1e16	2e16	5e16	1e17	2e17	**5e17**	1e18	2e18
[i06C3] 4400MHz Core i7-4790K (quad core), model 60, stepping 3, DDR3 2400 (dual channel)	0.38	0.40	0.42	0.44	0.44	0.48	0.50	0.50	0.54	0.56	0.56	0.60	0.62	0.64	0.66	0.66	0.68	0.70	0.72	0.74
[i06A7] 2700MHz Core i7-2620M (dual core), model 42, stepping 7, DDR3 1066 (dual channel)	0.50	0.53	0.57	0.60	0.63	0.67	0.70	0.73	0.77	0.80	0.83	0.84	0.89	0.91	0.95	0.98	1.02	1.06	1.09	1.14
[i06A7] 3100MHz Core i5-2400 (quad core), model 42, stepping 7, DDR3 1333 (dual channel)	0.51	0.54	0.58	0.61	0.64	0.67	0.71	0.74	0.77	0.80	0.83	0.86	0.89	0.92	0.95	0.98	1.02	1.06	1.09	1.13
[i06A7] 3300MHz Core i3-2120 (dual core), model 42, stepping 7, DDR3 1333 (single channel)	0.52	0.56	0.58	0.62	0.64	0.70	0.72	0.74	0.78	0.82	0.84	0.88	0.92	0.94	0.98	1.00	1.06	1.08	1.14	1.18
[i06C2] 3207MHz Core i7 (hexa core), model 44, stepping 2, DDR3 1600 (triple channel)	0.61	0.64	0.69	0.73	0.75	0.80	0.82	0.86	0.90	0.94	0.97	1.01	1.04	1.07	1.13	1.16	1.20	1.26	1.30	1.35
[i0655] 2667MHz Core i5 M560 (dual core), model 37, stepping 5, DDR3 1066 (dual channel)	0.60	0.65	0.69	0.74	0.77	0.81	0.86	0.89	0.94	0.99	1.02	1.08	1.12	1.15	1.20	1.26	1.30	1.37	1.40	1.50
[i0677] 2839MHz Intel Core 2 Quad (Q9550), model 23, stepping 7, DDR2 1100 (dual channel)	0.70	0.75	0.80	0.85	0.88	0.94	0.98	1.02	1.07	1.11	1.14	1.19	1.23	1.26	1.31	1.35	1.40	1.47	1.54	1.63
[i0677] 2666MHz Intel Core 2 Quad (Q9450), model 23, stepping 7, DDR2 1000 (dual channel)	0.75	0.80	0.86	0.90	0.94	0.99	1.03	1.08	1.13	1.17	1.21	1.25	1.30	1.34	1.38	1.43	1.47	1.55	1.62	1.70
[i06F6] 2400MHz Intel Core 2 Duo (E6600), model 15, stepping 6, DDR2 800 (dual channel)	0.83	0.88	0.94	0.99	1.04	1.10	1.14	1.19	1.25	1.30	1.34	1.40	1.45	1.50	1.56	1.61	1.66	1.75	1.84	1.93
[a0F80] 2600MHz 6-Core AMD Opteron (Istanbul), model 8, stepping 0, DDR2	0.57	0.64	0.74	0.80	0.86	0.95	1.01	1.08	1.16	1.22	1.28	1.37	1.42	1.49	1.58	1.64	1.72	1.84	1.99	2.26
[a0FF0] 2210MHz Athlon64 (Winchester), model 15, stepping 0, DDR 333 (dual channel)	0.68	0.75	0.85	0.92	0.99	1.08	1.14	1.21	1.29	1.36	1.42	1.50	1.56	1.63	1.75	1.86	2.02	2.21	2.39	2.61
[i06F6] 1996MHz T7200 (Core 2 Duo), model 15, stepping 6, DDR2 533 (dual channel)	1.01	1.06	1.14	1.20	1.25	1.33	1.39	1.44	1.52	1.57	1.64	1.71	1.76	1.82	1.91	1.98	2.08	2.22	2.35	2.50
[a0FC2] 1809MHz Sempron, model 12, stepping 2, DDR 333	0.87	0.97	1.08	1.16	1.24	1.36	1.44	1.52	1.63	1.70	1.79	1.90	1.98	2.07	2.20	2.32	2.48	2.76	3.05	3.42
[i06E8] 1830MHz T2400 (Core Duo), model 14, stepping 8, DDR2 533	1.28	1.37	1.48	1.57	1.66	1.76	1.85	1.94	2.04	2.11	2.19	2.29	2.37	2.45	2.57	2.67	2.79	2.96	3.13	3.31
[a0FC0] 1800MHz Sempron, model 28, stepping 0, DDR 333	0.91	1.00	1.11	1.21	1.28	1.40	1.49	1.57	1.68	1.77	1.85	1.97	2.07	2.20	2.41	2.57	2.81	3.15	3.44	3.81
[i0F64] 3401MHz Pentium D (dual core), model 6, stepping 4, DDR2 533	1.53	1.63	1.74	1.83	1.92	2.03	2.11	2.19	2.30	2.39	2.47	2.57	2.66	2.75	2.86	2.94	3.04	3.17	3.29	3.45
[i0F34] 3591MHz Xeon, model 3, stepping 4, DDR2 400	1.34	1.43	1.55	1.63	1.72	1.84	1.92	2.01	2.10	2.19	2.27	2.36	2.46	2.55	2.70	2.83	2.97	3.21	3.39	3.62
[i0F43] 3212MHz Pentium 4, model 4, stepping 3, DDR2 533	1.63	1.72	1.84	1.93	2.03	2.14	2.23	2.32	2.43	2.52	2.61	2.72	2.81	2.90	3.02	3.11	3.20	3.34	3.47	3.62
[i0F34] 2993MHz Pentium 4 (Prescott), model 3, stepping 4, DDR2 400	1.62	1.72	1.85	1.94	2.04	2.16	2.25	2.34	2.46	2.55	2.64	2.76	2.84	2.93	3.07	3.17	3.29	3.48	3.66	3.87
[a0662] 1669MHz Athlon (Palomino), model 6, stepping 2, DDR 333	1.07	1.17	1.29	1.38	1.47	1.59	1.67	1.76	1.87	1.96	2.06	2.20	2.32	2.47	2.72	2.93	3.23	3.66	4.03	4.52
[i06D8] 1729MHz Pentium M, model 13, stepping 8, DDR2 400	1.41	1.49	1.61	1.70	1.78	1.91	1.99	2.08	2.20	2.29	2.39	2.54	2.66	2.81	3.07	3.32	3.61	3.84	4.03	4.26
[i0F25] 3190MHz Xeon, model 2, stepping 5, DDR 266 (ECC)	1.35	1.47	1.68	1.82	1.98	2.16	2.30	2.45	2.62	2.76	2.90	3.06	3.21	3.34	3.55	3.70	3.89	4.19	4.50	4.82
[i0F25] 2806MHz Pentium 4 (Northwood), model 2, stepping 5, DDR 400	1.52	1.66	1.87	2.02	2.15	2.33	2.46	2.59	2.75	2.88	3.00	3.17	3.30	3.43	3.63	3.81	4.03	4.39		
[i0F27] 2667MHz Pentium 4 (Northwood), model 2, stepping 7, DDR 333	1.61	1.76	1.98	2.13	2.28	2.47	2.61	2.75	2.92	3.06	3.19	3.37	3.51	3.66	3.88	4.07	4.31	4.72		
[a0642] 908MHz Athlon (Thunderbird), model 4, stepping 2, SDR 133	1.96	2.16	2.38	2.55	2.71	2.93	3.09	3.25	3.46	3.62	3.79	4.06	4.29	4.54	4.99	5.37	5.91	6.72	7.45	8.40

These are our best available results for each processor type.
To convert to the time required to sieve an interval of 1e12 just multiply each entry by 1000.
The initialization time depends on the number of primes up to sqrt(x); it is always less than a minute.