The SSDF Chess Engine Rating List, 2019-02

Article

Accepted Version

The SSDF report

www.reading.ac.uk/centaur

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THE SSDF RATING LIST 2019-02-28    148673 games played by 377 computers

                                        Rating   +     -   Games   Won  Oppo
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   1 Stockfish 9 x64 1800X 3.6 GHz        3494   32   -30   642    74% 3308
   2 Komodo 12.3 x64 1800X 3.6 GHz        3456   30   -28   640    68% 3321
   3 Stockfish 9 x64 Q6600 2.4 GHz        3446   50   -48   200    57% 3396
   4 Stockfish 8 x64 1800X 3.6 GHz        3432   26   -24  1059    77% 3217
   5 Stockfish 8 x64 Q6600 2.4 GHz        3418   38   -35   440    72% 3251
   6 Komodo 11.01 x64 1800X 3.6 GHz       3397   23   -22  1134    72% 3229
   7 Deep Shredder 13 x64 1800X 3.6 GHz   3360   25   -24   830    66% 3246
   8 Booot 6.3.1 x64 1800X 3.6 GHz        3352   29   -29   560    54% 3319
   9 Komodo 9.1 x64 Q6600 2.4 GHz         3340   21   -20  1435    72% 3175
  10 Komodo 11.01 x64 Q6600 2.4 GHz       3333   32   -31   482    55% 3300
  11 Stockfish 6 x64 Q6600 2.4 GHz        3326   22   -21  1216    68% 3192
  12 Deep Shredder 13 x64 Q6600 2.4 GHz   3296   24   -23   884    64% 3193
  13 Booot 6.3.1 x64 Q6600 2.4 GHz        3280   41   -39   320    64% 3179
  14 Komodo 7 x64 Q6600 2.4 GHz           3270   23   -23   974    65% 3160
  15 Arasan 21.2 x64 1800X 3.6 GHz        3269   61   -68   127    35% 3375
  16 Komodo 5.1 x64 Q6600 2.4 GHz         3245   22   -22  1038    64% 3145
  17 Deep Hiarcs 14 1800X 3.6 GHz         3219   26   -27   680    41% 3280
  18 Wasp 3 x64 1800X 3.6 GHz             3218   27   -28   642    43% 3266
  19 Stockfish 3 x64 Q6600 2.4 GHz        3203   19   -18  1420    61% 3127
  20 Deep Rybka 4 x64 Q6600 2.4 GHz       3201   21   -20  1288    67% 3080
  21 Deep Rybka 3 x64 Q6600 2.4 GHz       3194   22   -21  1371    75% 3003
  22 Deep Hiarcs 14 Q6600 2.4 GHz         3189   19   -18  1450    61% 3112
  23 Chiron 3.01 x64 Q6600 2.4 GHz        3180   27   -27   656    45% 3217
  24 Wasp 2.01 x64 1800X 3.6 GHz          3159   26   -28   726    34% 3276
  25 Naum 4.2 x64 Q6600 2.4 GHz           3146   21   -21  1123    60% 3078
  26 Deep Junior Yokohama x64 Q6600 2.4 GHz 3126 22   -22  1010    42% 3184
  27 Naum 4 x64 Q6600 2.4 GHz             3121   19   -18  1436    61% 3040
  28 Deep Junior 13.3 x64 Q6600 2.4 GHz   3116   19   -19  1290    50% 3119
  29 Spike 1.4 Q6600 2.4 GHz              3108   15   -15  1951    52% 3092
  30 Deep Shredder 12 x64 Q6600 2.4 GHz   3104   18   -18  1507    62% 3016
  31 Hiarcs 14 Athlon 1.2 GHz             3100   29   -29   560    55% 3065
  32 Deep Fritz 13 Q6600 2.4 GHz          3097   24   -24   826    55% 3064
  33 The Baron 3.43 x64 1800X 3.6 GHz     3095   32   -35   538    27% 3265
  34 Deep Rybka 3 Athlon 1.2 GHz          3071   36   -35   372    53% 3048
  35 Wasp 2.01 x64 Q6600 2.4 GHz          3065   40   -46   404    20% 3302
  36 Crafty 25 x64 Q6600 2.4 GHz          3028   25   -26   804    35% 3134
  37 The Baron 3.43 x64 Q6600 2.4 GHz     3023   33   -33   440    51% 3019
  38 Arasan 17.2 x64 Q6600 2.4 GHz        3000   26   -26   686    46% 3029
  39 Revelation 2 Hiarcs 14.1 PXA320 800 MHz 2924 47 -46  220    55% 2889
  40 Chessmaster King 3.5 x64 Q6600 2.4 GHz 2861 24  -25   932    30% 3009
  41 Revelation Hiarcs 13.3 PXA255 500 MHz 2772 57   -52   177    66% 2661
  42 Revelation Shredder 12 PXA255 500 MHz 2703 60   -58   140    56% 2663
  43 Revelation Rybka 2.2 PXA255 500 MHz   2628 47   -44   240    62% 2545
  44 Revelation Deep Sjeng 3 PXA255 500 MHz 2599 68  -76   100    37% 2692
  45 ChessGenius 3 ZTE Apex3 ARM A53 1.3 GHz 2457 75 -68   100    62% 2376
  46 Revelation Ruffian 2.1 PXA255 500 MHz  2353 68   -71   100    45% 2390
  47 TASC R30 v. 2.5 ARM6 30 MHz           2273   42   -38   343    69% 2136
  48 Millenium ChessGenius Pro M4 120 MHz  2176   67   -59   140    68% 2048
  49 Millenium ChessGenius ARM M4 48 MHz   2078   51   -47   210    62% 1990
  50 Mephisto London 68000 12 MHz          2035   69   -70   100    49% 2043


   2 Komodo 12.3 x64 1800X 3.6 GHz, 3456

Stock9 1800X     18,5-21,5   Stock9 Q6600      20-20     Stock8 1800X      22,5-17,5
Stock8 Q6600      20-20      Komo11 1800X      22-18     DShre13 1800X       28-12
Booot6 1800X      24-16      Komo9.1 Q6600     27-13     Komo11 Q6600      56,5-23,5
Booot6 Q6600       31-9      Arasa21 1800X   30,5-9,5    DHiar14 1800X     34,5-5,5
Wasp3 1800X      30,5-9,5    Wasp201 1800X     35-5      Baro343 1800X     36,5-3,5
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  3 Stockfish 9 x64 Q6600 2.4 GHz, 3446

Stock9 1800X     16,5-23,5  Komo12 1800X      20-20     Komo11 1800X    21,5-18,5
Booot6 1800X     26,5-13,5  Booot6 Q6600     29,5-10,5

 13 Booot 6.3.1 x64 Q6600 2.4 GHz, 3280

Komo12 1800X       9-31     Stock9 Q6600     10,5-29,5  Stockf6 Q6600   20,5-19,5
DjunYok Q6600    27,5-12,5  Hiarc14 A1200     33-7      DRybka3 A1200   34,5-5,5
Shred12 A1200      35-5     Rybk231 A1200    35,5-4,5

 15 Arasan 21.2 x64 1800X 3.6 GHz, 3269

Komo12 1800X      9,5-30,5  Stock8 1800X      7,5-31,5  DShre13 1800X   11,5-18,5
Baro343 1800X    15,5-2,5

 18 Wasp 3 x64 1800X 3.6 GHz, 3218

Stock9 1800X      6,5-33,5  Komo12 1800X      9,5-30,5  Stock8 1800X     5,5-34,5
Stock8 Q6600      7,5-32,5  Komo11 1800X      6,5-33,5  DShre13 1800X   14,5-25,5
Booot6 1800X      11-29     Komo7.0 Q6600    13,5-26,5  DHiar14 1800X   19,5-20,5
Stockf3 Q6600    17,5-22,5  Chiro3 Q6600      23-17     Wasp201 1800X    25-15
Spike14 Q6600      27-13    Baro343 1800X    29,5-10,5  Zap!Mx2 Q6600   30,5-9,5
Wasp201 Q6600      29-13

 50 Mephisto London 68000 12 MHz, 2035

MCG Pro           6,5-13,5  MCG               10-10     Star Sapphire    6,5-13,5
Milano Pro       12,5-7,5   Nigel Short       13-7
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On our latest February rating list we can present six new Chess Computer
programs. First out is the winner of all three classes at the ICGA World
Championship that was played in Stockholm/Sweden last summer - namely Komodo.
Komodo is written by Mark Lefler, Larry Kaufman and the late Don Dailey.
The version we have tested is named Komodo 12.3 and it has achieved a very
strong rating of 3456 after 640 games played on our 1800X hardware level. This
is 59 points stronger than the 11.01 version we tested last time. We have used
Komodo's opening book by Erdogan Guenes for the testing.

The next new version we have on this list is Stockfish 9, which now have
sufficient amount of games on our Q6600-hardware level. After the
first 200 games it has reached the rating of 3446. This is 28 points stronger
than Stockfish 8 on the same platform, and is 48 points lower than the same
version on our 1800X hardware. We have of course used the same opening book
as we previously used on our 1800X hardware, when we tested Stockfish 9; that
is the free "Aggressive 3.5 by Fauzi.abk" opening book by Fauzi Dabat.

We have also got enough games with Booot 6.3.1 on our Q6600 hardware to be
able to introduce it on the list. The rating is 3280 after the first 320 games.
This is 72 points lower than the 1800X version which we introduced on the
last rating list.

Just in time for this rating list, we could also present an early rating of
the latest Arasan program by Jon Dart. We have tested it on our 1800X hardware,
with it's own included opening book and it has reached a rating of 3269 after
the first 127 games. More games will be needed to get a more reliable rating,
but the rating of 3269 is still 269 points stronger than the last Arasan
version we have tested! Even though some of the difference are due to
the fact that we tested the 17.2 version on our Q6600-hardware, the
performance gain from improvements made in the software is impressive.

Next out is the Wasp 3.0 program by John Stanback. We have played 642 games
with Wasp 3.0 on our 1800X hardware, and it has reached the rating of 3218.
This is 59 points stronger than the 2.01 version which we introduced in our

rating list in January 2018. We have used the free opening book by Sedat Canbaz, called "Perfect2017.abk" for the testing of Wasp 3.0.

Last out in this rating list is the manually tested "oldie" - the dedicated Mephisto London 68000 chess computer. This is a computer which we never got to test back in the days, but now are able to finally introduce in the rating list, 23 years after it was introduced back in 1996!
The Mephisto London is the program of Richard Lang and uses the module hardware for the old Modular/Exclusive/München boards. It features an Motorola 68000 processor at 12 MHz and uses 512 kB RAM for hash-tables.
The rating after the first 100 games is 2035 and this is 18 points stronger than the Berlin 68000, which previously was the strongest Lang program on the 68000 hardware in our rating list.

Compared to the last rating list, Deep Hiarcs 14 1800X gained 8 points and Novag Star Sapphire gained 6 points. Meanwhile The Baron 3.43 1800X lost 20 points, Millenium ChessGenius lost 9 points and Stockfish 9 1800X lost 8 points.

For our next list we will focus on getting more games with Komodo 12.3 on our Q6600 hardware and also Arasan 21.2 on both the 1800X and Q6600 level. We will also begin testing of Stockfish 10, Wasp 3.5 and hopefully also the Monte Carlo Tree Search (MCTS) version of Komodo.
We are also manually testing both the Millenium ChessGenius Exclusive and the latest Millenium The King Exclusive now.

Our next rating list will probably be out before summer.

Lars Sandin