

The SSDF chess engine rating list, 2023-05

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Since the last rating list we can now present six new entrants in the list.

First one out is our new leader in the list: Lc0 0.29.0, and also the first program that has broken the 3600-barrier in our rating list. More games will be needed to lower the error bars, but after the first 297 games it has placed itself 39 points over the last version tested with a huge rating of 3610! It will be interesting to see how it will hold up as more games are played against the top programs. The Lc0-version which we have tested this time is: Lc0 0.29.0, with the 19 filter + 512 block network, named 808544 (date: 2023-01-12). As with the earlier Lc0-versions, we have used the free opening book “perfect2021.abk” by Sedat Canbaz for the testing of Lc0.

Our next newcomer in the list are one really strong comeback from the team of Ed Schroeder and Chris Wittington. Chris Wittington is formerly known for programs such as: Chess Player 2150/2175, Complete Chess System and Chess System Tal (I and II). Ed Schroeder is of course known for many of the old dedicated chess computers like for instance: Mephisto Polgar, MM IV/V, RISC (I and II), Rebell and also for versions of his program in the ChessMachine ISA-plugin card for PC. On the PC-scene he has made the Gideon and Rebel-program famous and lately also made several interesting and strong versions of his ProDeo-program.

Since last year they have utilized Neural Net-technology in their joint effort and has seemingly improved fast. We have waited some time to test it, since we wanted it to share most of the functions - like for instance Pondering and Multi-Processor functionality, which the others programs that we test on our latest hardware uses. The version which we have tested is named: Rebel 16.2 and we have used its own opening book, made by the famous Jeroen Noomen, for the testing. After the first 209 games, this strong combo of the program: Rebel 16.2, and the opening book of Jeroen Noomen, has managed to get an impressive rating of 3544 on our 1800X hardware. It is placed 10th in the list at the moment, just 5 points shy of the Stockfish 12-program. A very strong comeback by Ed, Chris and Jeroen!

Our next addition to the list are Jon Dart’s strong and reliable Arasan-program. The version that we have tested on our 1800X and Q6600 hardware are Arasan 23.4. On our 1800X hardware it has reached a rating of 3524 after the initial 160 games played. That is at the moment 75 points ahead of the formerly tested 23.01 version and a very nice improvement indeed! More games will of course be needed to lower the error bars a bit. On our Q6600 hardware, Arasan 23.4 has reached a rating of 3439 after 361 games played. We never tested the 23.01 version on the Q6600 hardware, but Arasan 23.4 are a whopping 202 points ahead of the 21.2 version at least! We have, as always, used Arasan’s own opening book for the testing.

We are also glad to be able to present a new strong Wasp version by John Stanback, namely Wasp 6.5, on our latest rating list. After the first 242 games played, it has reached a rating of 3433! This is 55

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points stronger than the 5.5 version which we tested before, so a nice improvement there also! We have used Wasp's own opening book for the testing.

And we can now finally show the first rating of the manually tested: Phoenix Revelation II Anniversary Edition chess computer by Ruud Martin/DGT. This Anniversary Edition of the Revelation II, features an updated hardware relative to the ordinary Revelation II. The hardware for the Anniversary Edition is an Colibri iMX7D with 2 ARM Cortex A7 processors running at 1GHz. The software which we have used for the testing is the program Komodo 12.1 by Mark Lefler and Larry Kaufman. The rating that has been reached after the first 100 games is 3177! This is a rating that is 253 points ahead of Hiarc 14.1, which we tested formerly on the ordinary Revelation II. It is clearly the strongest dedicated chess computer which we have tested so far and it has been able to perform admirably against the strong Q6600 opposition which it mostly has faced in our testing so far.

Aside from producing more games with the already mentioned newcomers in the rating list, we are at the moment testing Richard Pijl's – The Baron 3.45, and also Alex Morozov's – Boot 7.1. We also hope to have some more programs ready for the next rating list.

1 Lc0 0.29.0 Cuda-808544 3060Ti, 3610					
Stoc15 1800X	4-3	Reb162 1800X	21.5-18.5	Aras234 1800X	46-34
Stock9 1800X	29-11	Wasp65 1800X	28.5-11.5	Wasp55 1800X	66-14
10 Rebel 16.2 x64 1800X 3.6 GHz, 3544					
Lc029 3060Ti	18.5-21.5	Dra3 1800X	4.5-4.5	Stoc14 1800X	19-21
Aras234 1800X	20.5-19.5	Boo7 1800X	23.5-16.5	Wasp65 1800X	24-16
13 Arasan 23.4 x64 1800X 3.6 GHz, 3524					
Lc029 3060Ti	34-46	Reb162 1800X	19.5-20.5	Boo7 1800X	21-19
21 Arasan 23.4 x64 Q6600 2.4 GHz, 3439					
Komo12 Q6600	21.5-18.5	Stock8 Q6600	21.5-18.5	Ped31 Q6600	22.5-17.5
Chi5 Q6600	85.5-34.5	DShre13 Q6600	24-16	Vaj28 Q6600	1-0
Mar51 Q6600	33.5-6.5	DRybka3 Q6600	34.5-5.5		
23 Wasp 6.5 x64 1800X 3.6 GHz, 3433					
Lc029 3060Ti	11.5-28.5	Stoc15 1800X	11.5-28.5	Reb162 1800X	16-24
Ped3 1800X	44.5-35.5	Komo11 1800X	21.5-18.5	Vaj28 1800X	2-0
36 Revelation 2 A.E. Komodo 12.1 A7 1 GHz, 3177					
DShre13 Q6600	6-14	DHiar14 Q6600	9.5-10.5	DJuni12 Q6600	11.5-8.5
Baro343 Q6600	15.5-4.5	Naum 4 A1200	16.5-3.5		

Table 1

The recently tested 'Selected 50' from SSDF rating list '2023-05', 162991 games played by 435 computers. THE SSDF RATING LIST 2023-05-24* 162991 games played by 435 computers

		Rating	+	-	Games	Won	Oppo
1	Lc0 0.29.0 Cuda-808544 3060Ti	3610	45	-41	287	68%	3466
2	Lc0 0.28.2 Cuda-611213 3060Ti	3571	26	-25	780	66%	3456
3	Lc0 0.26.3 Cuda(67362) 3060Ti	3570	29	-27	680	68%	3441
4	Stockfish 15 x64 1800X 3.6 GHz	3570	39	-36	367	66%	3456
5	Stockfish 13 x64 1800X 3.6 GHz	3568	35	-32	480	69%	3432
6	Dragon Komodo 3 x64 1800X 3.6 GHz	3567	40	-38	329	62%	3482
7	Dragon Komodo 2.51 x64 1800X 3.6 GHz	3565	42	-39	320	65%	3454
8	Stockfish 14 x64 1800X 3.6 GHz	3555	37	-35	400	65%	3452
9	Stockfish 12 NNUE x64 1800X 3.6 GHz	3549	26	-25	760	60%	3479
10	Rebel 16.2 x64 1800X 3.6 GHz	3544	48	-47	209	53%	3522

Table 1
(Continued)

		Rating	+	-	Games	Won	Oppo
11	Dragon by Komodo x64 1800X 3.6 GHz	3536	34	-32	460	63%	3443
12	Stockfish 11 x64 1800X 3.6 GHz	3529	36	-34	450	70%	3386
13	Arasan 23.4 x64 1800X 3.6 GHz	3524	54	-55	160	47%	3560
14	Dragon Komodo 3.1 MCTS 1800X 3.6 GHz	3514	34	-33	440	60%	3447
15	Stockfish 10 x64 1800X 3.6 GHz	3501	25	-23	920	67%	3378
16	Booot 7 x64 1800X 3.6 GHz	3477	39	-40	300	46%	3507
17	Dragon Komodo 2 MCTS x64 1800X 3.6 GHz	3473	45	-44	240	55%	3439
18	Stockfish 9 x64 1800X 3.6 GHz	3464	24	-23	962	67%	3345
19	Komodo 14 x64 1800X 3.6 GHz	3455	30	-30	520	52%	3441
20	Arasan 23.01 x64 1800X 3.6 GHz	3449	33	-34	420	48%	3462
21	Arasan 23.4 x64 Q6600 2.4 GHz	3439	40	-37	361	68%	3314
22	Pedone 3.1 x64 1800X 3.6 GHz	3433	38	-39	320	45%	3468
23	Wasp 6.5 x64 1800X 3.6 GHz	3433	44	-45	242	44%	3478
24	Stockfish 9 x64 Q6600 2.4 GHz	3427	32	-31	480	56%	3384
25	Booot 6.5 x64 1800X 3.6 GHz	3426	34	-34	400	48%	3436
26	Wasp 5.5 x64 1800X 3.6 GHz	3378	37	-39	360	36%	3486
27	Arasan 22.3 x64 1800X 3.6 GHz	3360	39	-42	320	35%	3468
28	Marvin 6.0.0 x64 1800X 3.6 GHz	3358	47	-53	220	31%	3494
29	Pedone 3.1 x64 Q6600 2.4 GHz	3356	38	-37	340	58%	3303
30	Deep Shredder 13 x64 1800X 3.6 GHz	3347	24	-23	920	62%	3261
31	Chiron 5.01 x64 1800X 3.6 GHz	3344	33	-35	440	34%	3455
32	Marvin 5.2.0 x64 1800X 3.6 GHz	3325	37	-40	360	32%	3456
33	Chiron 5.01 x64 Q6600 2.4 GHz	3318	34	-34	400	52%	3301
34	Vajolet2 2.8 x64 1800X 3.6 GHz	3279	27	-28	652	38%	3364
35	Deep Hiarcs 14 1800X 3.6 GHz	3206	23	-24	880	38%	3289
36	Revelation 2 A.E. Komodo 12.1 A7 1 GHz	3177	73	-68	100	59%	3113
37	Revelation 2 Hiarcs 14.1 PXA320 800 MHz	2924	47	-45	228	56%	2881
38	Chessmaster King 3.5 x64 Q6600 2.4 GHz	2857	24	-25	932	30%	3005
39	Revelation Hiarcs 13.3 PXA255 500 MHz	2772	57	-52	177	66%	2660
40	Revelation Shredder 12 PXA255 500 MHz	2706	60	-58	140	56%	2666
41	Revelation Rybka 2.2 PXA255 500 MHz	2635	45	-43	260	63%	2546
42	Revelation Deep Sjeng 3 PXA255 500 MHz	2600	62	-67	120	41%	2665
43	Millennium The King Exclusive 300 MHz	2534	49	-48	200	55%	2501
44	Revelation Ruffian 2.1 PXA255 500 MHz	2346	68	-71	100	45%	2385
45	Millennium ChessGenius Excl. M7 300 MHz	2249	50	-48	204	58%	2193
46	Mephisto London 68030 33 MHz	2195	31	-31	482	50%	2192
47	Millennium ChessGenius Pro M4 120 MHz	2163	59	-54	160	63%	2067
48	Mephisto London 68020 12 MHz	2089	60	-53	171	68%	1957
49	Millennium ChessGenius ARM M4 48 MHz	2070	45	-43	251	58%	2015
50	Mephisto Roma II 68000 10 MHz	1898	63	-59	132	58%	1843

*This rating list was produced and based on the games/results that were finished on the first of May, but the publication of this rating list was unfortunately a bit delayed this time. The testing has of course not stood still since then, and the games/results that has been played since this date will of course feature in the next rating list, which we plan to have out later this year.