

The hardest sudokus (new thread)

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Re: The hardest sudokus (new thread)

By 999_Springs » Wed Jun 16, 2021 12:37 am

thanks to 1to9only for the clarifications and the ranking of the patterns game 11.7's and 11.8's by node count of the longest chain. i look forward to seeing the results from the 11.9's soon 😊, as i believe that the node count of the longest chain is a more natural SE tiebreaker than EP/ED since the length is what SE uses to assign ratings anyway

🗨️ 1to9only wrote:

[g.r.emlin flags the ED=11.8/11.8/3.4 as the 2nd posted with that rating! I cannot find the 1st one!!]

gremlin crashed a few times immediately after the game was finished. you can see from [the close of game 169](#) that mike's 20 11.8 and strmcKr's 20 11.6, posted by gsf and champagne respectively, are both marked as "rare-0" at the end of the game, but after gremlin crashed multiple times over the next few days, they turned into "rare-1" in the results thread. the crash was because both mike and coloin submitted the same 20 clue pattern one after another and gremlin validated both of them when they PMed it, so they both ended up in the queue, which somehow made gremlin immediately replay the whole game, meaning the puzzles were counted twice in the rarity statistics

mith, 1to9only posted an extensive list of chain lengths and types for all patterns game puzzles [here](#). it contains a 10.2 dynamic (+) example, as well as an 8.2 nishio and an 8.8 multiple fc which you may also be interested in. and i got there first with the minimal 31-clue 11.1 [here](#) 😊

999_Springs

Posts: 585
Joined: 27 January 2007
Location: In the toilet, flushing down springs, one by one.

Re: The hardest sudokus (new thread)

By coloin » Wed Jun 16, 2021 2:56 am

Thanks for that i didnt know those details !

Whilst we are at it ... I would like to record the only time the dealer [me] has actually won a patterns game.
In game 086 the highest rating puzzle [a 11.4] was not found by the players and was posted after the game finished
Unfortunately it wasnt credited with a :::more::: submission. 😊

coloin

Posts: 2225
Joined: 05 May 2005
Location: Devon

The 11.8 and 11.9 grids from ph_2010

By 1to9only » Wed Jun 16, 2021 8:56 am

The 11.8 and 11.9 grids are from ph_2010, in the (hidden) lists below, they appear in ER/EP/ED rating order. Within each grid, the number of nodes are in sorted order (i.e. they may NOT appear in the same order in the solution path). Each grid solution path takes about 8-9 minutes of SE run!!

Highest Rated: ED=11.8/11.8/11.7
With Most 11.8 Steps [10]: ED=11.8/1.5/1.5
Longest Chain: ED=11.8/11.8/3.4, Contradiction Forcing Chain (w/369 nodes)

11.8s from ph_2010: Show

Highest Rated: ED=11.9/11.9/11.8
With Most 11.9 Steps [5]: ED=11.9/11.9/2.6
Longest Chain: ED=11.9/1.2/1.2, Contradiction Forcing Chain (w/472 nodes)

11.9s from ph_2010: Show

Edit: All the grids shown are the starting grids, not necessarily the state of the grid just before the step shown is made.

1to9only

Posts: 4075
Joined: 04 April 2018

Re: The hardest sudokus (new thread)

By mith » Wed Jun 23, 2021 10:06 pm

Pushing the +DFC minimal limits:

CODE: SELECT ALL

29c
.....1.....2.....345.....65.7...3.45.63.....7.84.....57...6...48.3.56...6.347.8... ED=11.6/1.2/1.2

There is one minimal 28c from this which will presumably have the same rating (hasn't run yet):

CODE: SELECT ALL

28c
.....1.....2.....345.....364.....7.5.8...345...7.....3748.6...58...7...6.43.57... ED=11.6/1.2/1.2

[edit]28c confirmed now[/edit]

Last edited by mith on Wed Jun 23, 2021 10:27 pm, edited 1 time in total.

mith

Posts: 862
Joined: 14 July 2020

Re: The 11.8 and 11.9 grids from ph_2010

By mith » Wed Jun 23, 2021 10:15 pm

🗨️ 1to9only wrote:

The 11.8 and 11.9 grids are from ph_2010, in the (hidden) lists below, they appear in ER/EP/ED rating order. Within each grid, the number of nodes are in sorted order (i.e. they may NOT appear in the same order in the solution path). Each grid solution path takes about 8-9 minutes of SE run!!

This is very cool, thanks for doing this!

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Wed Jun 23, 2021 11:46 pm

There weren't any 34c in the database, so I went ahead and rated the three I've generated. The high is a 10.4:

CODE: SELECT ALL

34c
.....12.34...1.3...25...672.5...17...6...52...81.67.75.68...18.2...66.217...5... ED=10.4/1.2/1.2

Also have a 10.3 diamond:

CODE: SELECT ALL

.....1...2...3...2.3...14...25...6.276.8.3.5.6.73...8.785.63...2.538...676...27... ED=10.3/10.3/10.3

And a new high for 33c:

CODE: SELECT ALL

33c
.....1.23...2.34...25...67...6...752.88.7...35.53...68...28...5.36.7.6...8.52 ED=11.0/1.2/1.2

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Fri Jun 25, 2021 8:40 pm

More highs:

CODE: SELECT ALL

32c
.....1...2...3.3...4...56.17.8...2.87.34...34.21...8.74.38...1.342...8...1.7...4 ED=11.1/1.2/1.2
.....12.34...5...36...37...84.6.4...8...785...3.6.7...46.4.38...7.556...7.83 ED=11.1/1.2/1.2
.....1...2...3.4.56.1...73...553.41...7.7.48.5...415...8.3.71.8...85...47...3 ED=11.1/1.2/1.2
.....1...2...3.4.56.1...73...53.41...7.7.48.5...415...8.3.71.85...85...47...3 ED=11.1/1.2/1.2
.....1...2...3.4.56.1...73...553.4...7.7.48.5...1.415...8.3.71.8...85...47...3 ED=11.1/1.2/1.2
.....1...2...3.4.56...7.18...4135...8.85.4.7...3.1.7.3...553.14...7.7.4.85... ED=11.1/1.2/1.2
.....1...2...3.4.56.1...73...53.4...7.7.48.5...1.415...8.3.71.85...85...47...3 ED=11.1/1.2/1.2
.....1...2.34...56...578.6...62.8.7...87.1...25...762.8.7.12...5.6...8.5.17 ED=11.1/1.2/1.2
.....1...2...3.4.56.14.6...783.74.8...86...17...3.4...73...63.14...77.18.6... ED=11.1/1.2/1.2
.....1...2...3...4.56...7.48...1463...7886.1.7...3.4.7.3...63.41...77.1.86... ED=11.1/1.2/1.2
.....1...2...3.4...15...6.74...841.3.7.17.86...3.3841...6.1.378...74.6...3... ED=11.1/1.2/1.2
.....1...2...3...456...31...7.56.8...6.7.37.65...81...58...6...73.7...8.61...78.3... ED=11.1/1.2/1.2
.....1...2.3...45...2...21.63...3.7.8.26...8.371...67...8...2.817...8731...26 ED=11.1/1.2/1.2
.....1.23.12...45.46.17...7.8.6...8.12...6.68.724...1...6.4...42.18...67 ED=11.1/1.2/1.2
.....1.23.12...45.46.17...7.8.6...48.12...6.68.72...1...6.4...42.18...67 ED=11.1/1.2/1.2
33c
.....1...2...3...2.4...56.17.84...5.21...82.85.7...4.75.284...12...5.8.8.41...5 ED=11.1/1.2/1.2
.....1...2...3...2.4...56.17.845...5.21...82.85.7...4.75.284...12...5.8.8.41... ED=11.1/1.2/1.2
34c
.....1.23.12.3...45...6.17...73.8.62...8.132...76.63.72...17.6...2.81.3...7 ED=10.7/1.2/1.2

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Sat Jun 26, 2021 1:25 am

One more:

CODE: SELECT ALL

31c
.....1.....2.34...5.62...276...78...9...69...28...5.67.85...82.9.6.5.9.527... ED=11.2/1.2/1.2

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Wed Jun 30, 2021 12:52 pm

CODE: SELECT ALL

31c
.....1.....2.3...1.4...5...16.78...2.74...8684.2.61...6.78...14.8.6.472.7... ED=11.3/1.2/1.2

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Fri Jul 02, 2021 3:18 pm

CODE: SELECT ALL

35c
.....1234...2.53...6.23...746.74...8.28.6...7...7...3.6.826...7834.3.8.4...27 ED=10.6/1.2/1.2

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Fri Jul 02, 2021 3:48 pm

CODE: SELECT ALL

34c
.....1.23...2.34.56.2314...787.4.8...81.7.2...8.4.7.3.24.31...8.3.7.28... ED=11.0/1.2/1.2

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Sat Jul 03, 2021 3:33 am

CODE: SELECT ALL

32c
.....1.....1234...13...5...1.6...376.7...14.883.4...6...6...84.7...861...38...76... ED=11.2/1.2/1.2
.....1.....234...13...5...1.6...376.7...14.883.4...6...7...86...3.8.1...76.1.6...84 ED=11.2/1.2/1.2
.....1.....234...13...5...1.6...376.7...14.883.4...6...7...86...1.6...8438.1...76... ED=11.2/1.2/1.2
.....1.....2.3...3...4.5...2346.7.86.7...85...84...37...8267...4.6.23...73.8.4.2... ED=11.2/1.2/1.2

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Sun Jul 04, 2021 11:56 pm

First 11.8 on the new computer.

CODE: SELECT ALL

22c
.....1.....234...34...2.....1.5...3.6...15...7.68...4...7...9...9...5...3 ED=11.8/11.8/2.6

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By mith » Mon Jul 05, 2021 3:19 am

CODE: SELECT ALL

34c
.....1...2...3...4.3...56...7.38...285.6.7.786.352...38.76...8.2...3.56...75.82 ED=11.1/1.2/1.2

mith

Posts: 862
Joined: 14 July 2020

Re: The hardest sudokus (new thread)

By denis_berthier » Mon Jul 05, 2021 6:53 am

🗨️ mith wrote:

First 11.8 on the new computer.

CODE: SELECT ALL

22c
.....1.....234...34...2.....1.5...3.6...15...7.68...4...7...9...9...5...3 ED=11.8/11.8/2.6

denis_berthier

2010 Supponer
Posts: 3334
Joined: 19 June 2007
Location: Paris

in B5B (or lower).

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Re: The hardest sudokus (new thread)

By denis_berthier » Mon Jul 05, 2021 6:53 am

🗨️ mith wrote:

First 11.8 on the new computer.

CODE: SELECT ALL

22c
.....1.....234...34...2.....1.5...3.6...15...7.68...4...7...9...9...5...3 ED=11.8/11.8/2.6

denis_berthier

2010 Supponer
Posts: 3334
Joined: 19 June 2007
Location: Paris

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