

The hardest sudokus (new thread)

POSTREPLY

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Re: The hardest sudokus (new thread)

↳by coloin » Thu Nov 08, 2012 2:38 pm

“dobrichev wrote:

.....1.....2.3.....14.5.....3.....6.5.7..4.8.....2..6..8..5.4.51.....9..7.1., skfr=11.8/11.8/2.6

extending dorichev's search
here are a few more from the pattern below [ED using skfr]

CODE: SELECT ALL

98.7.....6..89.....5..4...7...3.9...6...7...2...51.6..8.3.....1.4.....2;11.80;11.80;2.60;GP;H3;26;22

new

98.7.....6..89.....1..4...7...3.9...6...7...2...51.6..8.3.....5.4.....2 ED=11.8/11.8/2.6

68.7.....3..89.....5..4...7...3.9...6...7...2...51.6..8.3.....1.4.....2 ED=11.8/1.5/1.5

68.7.....3..89.....1..4...7...3.9...6...7...2...51.6..8.3.....5.4.....2 ED=11.8/1.5/1.5

in database already

98.7.....6..89.....4..5...7...3.9...6...7...2...51.6..8.3.....1.4.....2 ED=11.5/11.5/2.6

98.7.....6..89.....4..1...7...3.9...6...7...2...51.6..8.3.....5.4.....2 ED=11.3/11.3/2.6

68.7.....9..86.....5..4...7...3.9...6...3...2...51.6..8.7.....1.4.....2 ED=11.2/11.2/2.6

quite a pattern

C

“QUOTE

coloin

Posts: 2225

Joined: 05 May 2005

Location: Devon

Re: The hardest sudokus (new thread)

↳by champagne » Fri Nov 09, 2012 2:52 pm

the four new have a serate rating equal to skfr (I still try to get the serate rating over 11.5)
They will be in the next update of the potential hardest now located [here](#)

“QUOTE

champagne

2017 Supporter

Posts: 7269

Joined: 02 August 2007

Location: France Brittany

distribution by pattern

↳by dobrichev » Wed Nov 14, 2012 10:58 pm

The distribution by pattern of puzzles rated 10+
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“QUOTE

dobrichev

2016 Supporter

Posts: 1831

Joined: 24 May 2010

distribution by rating

↳by dobrichev » Wed Nov 14, 2012 11:19 pm

Number of puzzles per skfr rating

CODE: SELECT ALL

1 11.9

36 11.8

34 11.7

89 11.6

124 11.5

210 11.4

1851 11.3

8350 11.2

19010 11.1

22241 11.0

29640 10.9

18842 10.8

23765 10.7

119338 10.6

177626 10.5

674990 10.4

654807 10.3

781068 10.2

310709 10.1

132792 10.0

“QUOTE

dobrichev

2016 Supporter

Posts: 1831

Joined: 24 May 2010

Re: distribution by pattern

↳by champagne » Wed Nov 28, 2012 12:55 pm

“dobrichev wrote:

The distribution by pattern of puzzles rated 10+

Hi mladen,

One question regarding that list.

Is that strictly a count per pattern or a count per any morph of a given pattern.

I have statistics tending to tell that the answer is the first option.

BTW, I got my first puzzle of 25 clues rating 11.6.

The first step which is to diversify the seeds is very very long, I hope now to get better puzzles, starting from the seeds found.

“QUOTE

champagne

2017 Supporter

Posts: 7269

Joined: 02 August 2007

Location: France Brittany

Re: The hardest sudokus (new thread)

↳by dobrichev » Wed Nov 28, 2012 6:55 pm

Hi champagne,

Every 10+ puzzle that can be morphed to fit in a given pattern is assigned to this pattern and is counted once. Any of the patterns is counted once.
If you sum vertically the first column, you find the total number of the patterns.
If you multiply the two columns in a row and then sum, you find the total number of puzzles.

Why you think the counts are unrealistic?

I have 4 25-clue 11.6-s. 26-s and 27-s are up to 11.1, but as you know I focused my search to lower number of clues.

“QUOTE

dobrichev

2016 Supporter

Posts: 1831

Joined: 24 May 2010

Re: The hardest sudokus (new thread)

↳by champagne » Wed Nov 28, 2012 7:42 pm

“dobrichev wrote:

Why you think the counts are unrealistic?

I am working on the canonical form of the pattern and I have "patterns" with much more than 1430 puzzles using the file of seed (about 7 million puzzles).
One of us (if not both) have a problem.
This has to be investigated. I'll look to morrow for a detailed list for one example;

“dobrichev wrote:

I have 4 25-clue 11.6-s. 26-s and 27-s are up to 11.1, but as you know I focused my search to lower number of clues.

I have many more below 11.6,(about 4000 with a skfr rating 10.9 and more) but as you say, we are searching in different areas.

“QUOTE

champagne

2017 Supporter

Posts: 7269

Joined: 02 August 2007

Location: France Brittany

Re: The hardest sudokus (new thread)

↳by dobrichev » Wed Nov 28, 2012 10:06 pm

“champagne wrote:

i have "patterns" with much more than 1430 puzzles using the file of seed (about 7 million puzzles)

Are these puzzles ever rated or they only have some kind of "potential"?

“QUOTE

dobrichev

2016 Supporter

Posts: 1831

Joined: 24 May 2010

Re: The hardest sudokus (new thread)

↳by champagne » Thu Nov 29, 2012 3:10 am

“dobrichev wrote:

Are these puzzles ever rated or they only have some kind of "potential"?

The file available for download in the skfr project has no rating, but nearly all these puzzles have been rated once wit a skfr cut off 10.0 or 10.2.
I noticed that you made statistics on about 3 millions puzzles, the download is more than double;
I'll send you more details through a mail.

“QUOTE

champagne

2017 Supporter

Posts: 7269

Joined: 02 August 2007

Location: France Brittany

Re: The hardest sudokus (new thread)

↳by champagne » Wed Dec 05, 2012 2:55 pm

dobritchev made a lot of work in the search of potential hardest.
We have now a much bigger file and new high serate ratings including a 11.9 an several 11.8.

This was worth an update of the file that replaces the old one.
It can be downloaded from the [downloads in skfr project](#)

“QUOTE

dobrichev

2016 Supporter

Posts: 1831

Joined: 24 May 2010

Re: The hardest sudokus (new thread)

↳by dobrichev » Wed Dec 05, 2012 5:00 pm

Thanks for the update.

At the bottom of the list some non-diamond 10.3 appeared.

“QUOTE

dobrichev

2016 Supporter

Posts: 1831

Joined: 24 May 2010

Re: The hardest sudokus (new thread)

↳by coloin » Wed Dec 05, 2012 8:30 pm

here are the new puzzles with skfr that i found above 11.3 [79 11.0 and above]

CODE: SELECT ALL

...5.7...9.1.6.....52...8.16.....2..3...4.7.7..4.....82.9...9.68... ED=11.4/11.4/9.2

2...1...6...3...9.8...7..5...78.3...1.8...4.5...4.9.7...6.2...9.....5 ED=11.5/11.5/9.7

2...6.3..8..1...4...9...5.3.1...82.....7.5.8...9...2...7..1..5.6.....4 ED=11.6/11.6/11.3

98.7...7..8..9...5.4...39...6...6.....2...81...3..76...1...2...5..4 ED=11.6/11.6/2.6

..1.5.7..4...9...8.2...2...4...9.8.....3.6.5.....5.16.....7..13..6...7 ED=11.7/1.2/1.2

C

“QUOTE

coloin

Posts: 2225

Joined: 05 May 2005

Location: Devon

Re: The hardest sudokus (new thread)

↳by champagne » Thu Dec 06, 2012 8:36 am

“dobrichev wrote:

Thanks for the update.

At the bottom of the list some non-diamond 10.3 appeared.

A small problem with my selection. I'll revise the criteria for the future.

Are also missing the last lot with clues over 25.

I'll add these puzzles and I'll also check the last coloin list. (for the next update, no immediate effect)

The next update, as soon as possible, will be a new release of the exotic properties and likely my new short list of hardest.

“QUOTE

champagne

2017 Supporter

Posts: 7269

Joined: 02 August 2007

Location: France Brittany

the latest collection

↳by dobrichev » Thu Dec 06, 2012 9:38 am

Hi champagne,

Could you reconsider the following puzzles from your latest list?

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“QUOTE

dobrichev

2016 Supporter

Posts: 1831

Joined: 24 May 2010

Re: the latest collection

↳by champagne » Thu Dec 06, 2012 10:22 am

“dobrichev wrote:

Hi champagne,

Could you reconsider the following puzzles from your latest list?

Clearly some room for errors in the process (I have one idea that I'll test for these)

I'll cancel these ones, but this also means that other puzzles could have a wrong rating.

Anyway, as some bugs have been fixed in skfr, I'll re rate the entire file of skfr ratings and clean the file if other problems appear

thanks

“QUOTE

champagne

2017 Supporter

Posts: 7269

Joined: 02 August 2007

Location: France Brittany

