The New Sudoku Players' Forum Sponsored by Enjoy Sudoku The hardest sudokus (new thread) POSTREPLY 🗷 🖳 Search this topic... 1330 posts • Page 4 of 89 • 1 2 3 4 5 6 7 ... 89 Search "QUOTE Re: The hardest sudokus (new thread) 2017 Supporter by champagne » Fri May 28, 2010 3:16 pm Posts: 7269 Joined: 02 August 2007 this is a call to rebuilt part of our history. Location: France Brittany May-be "ttt" "ronk" or "allan Barker" could fill the following gap. In that thread, I produced last year a list of "hard puzzles" with no SK loop, no Exocet. I considered at that moment that file as my own list of "hardest" Allan Barker came immediately with a new property, a kind of huge SLG of rank 0. Many puzzles in that list had the same property. Has anybody a copy of these posts ?? I erased my own files relying on the forum memory. champagne QUOTE Re: The hardest sudokus (new thread) □ by ttt » Fri May 28, 2010 3:40 pm Posts: 185 Joined: 20 October 2006 Location: vietnam **66** champagne wrote: this is a call to rebuilt part of our history. May-be "ttt" "ronk" or "allan Barker" could fill the following gap. In that thread, I produced last year a list of "hard puzzles" with no SK loop, no Exocet. I considered at that moment that file as my own list of "hardest" Allan Barker came immediately with a new property, a kind of huge SLG of rank 0. Many puzzles in that list had the same property. Has anybody a copy of these posts ?? I erased my own files relying on the forum memory. Perhaps, I think that you said for bellow list. But, after the tarx0104 solved (by me first  $\bigcirc$ ) then we are still colBF2 326 and colefg colg182. **CODE: SELECT ALL** 500000080003000069006080003008070006100200700000004000007090000200100000040005000 colBF2 63 100450009400089000000100000000800005060000020007002300030000070002004600900000001 colh50 col0701-065 000050009006000100080100040200005000090010030000207000001000800040001060900020007 tarekdb tarx0104 000050009006000100080100040200005000090010030000207000001000800040000060900020017 tarekdb tarx0105  $00000200500000006300306000900605000801020000070040000008000050200007800040100000 \ \ cologoo \ 583$ 00490020200000600700000001060900040005000300 col0906 4450 00305000000040009010000070508004600000090806000200000500000300020600080007000001 colBF2 7 00000703000000005003050080008000006070002000100400900006080090020100600400700000 col0805 28 04000003900000005003050080000060008070002000100400000006090050020701600400000000 col0805 774  $0000040650000000303060009009030008010002000700400000008000050200007800040100000 \ \ cologoo \ \ 284$ 00000003910000006000609000500806000307040280001000000000080050020001000400700000 coly 245  $00300000506080009010000070009004800000090604000200000500000300000600020007030001 \ colored 1276$ 000000009000002060006090005005060008700004000010200000003000090020007300400100800 colBF2 4314 10000000502040008000300070004086000000004906000000002007005100060900000500000003 col0805 col 857 00020008000000005006050000008030009070002300100004000009000030020700900400001600 col0906 3789 00100050008040002030000000704090600000004209000000008007030100000600080500000003 col0906 1171 3000507010904000600010700000802400000000900200000008060000000060900080005000003 colBF3 10021 0000020013000500400007006005000000002090040030006000700002100000400080000080003090 tax ONY 000000030000200005005060009003090008070002000100400600008000050200007800040100000 colBF2 1991 003900000400020000080001600000008900000030050070600001005000003090700800200000040 tax dml-1 00000006300010000900609005000800000607000200010040000005080030400001800020007000 colz2 957 003050009400100000080007000030005008000030920000000060005060002700004000810000000 tarekdb Pl\_Bl 00070006900000005000609000000800000507000230010040000005080030020001800400007000 col0906 961 30000670407000102000500080000060200000000000000719060008000500010200070400000003 tax tk-1789  $000000063000001009003090005005000090010002000700400800006030008020007000400100000 \ \ coloq06 \ \ 1073$ 500000009020100070008000300040002000000050000000706010003000800060004020900000005 tax StrmCkr 5000000090201000700080003000406000000000500000000207010003000800060004020900000005 tax m\_b\_mef QUOTE Re: The hardest sudokus (new thread) champagne 2017 Supporter by champagne » Fri May 28, 2010 8:19 pm Posts: 7269 Joined: 02 August 2007 **66** ttt wrote: Location: France Brittany Perhaps, I think that you said for bellow list. But, after the tarx0104 solved (by me first ) then we are still colBF2 326 and colefg colg182. as far as i can see, this is what I expected. I start the "rating run" to check thanks a lot champagne QUOTE Re: The hardest sudokus (new thread) 2017 Supporter by champagne » Sun Aug 01, 2010 5:16 pm Posts: 7269 cancelled due to error Joined: 02 August 2007 Location: France Brittany champagne Last edited by champagne on Mon Aug 02, 2010 8:06 am, edited 1 time in total. Re: The hardest sudokus (new thread) "QUOTE 2012 Supporter □ by **ronk** » Sun Aug 01, 2010 6:32 pm Posts: 4764 Joined: 02 November 2005 **66** champagne wrote: Location: Southeastern USA I started a search to see whether ithat patten could be eligible to the pattern game (one puzzle solved by singles) and I got that one 6......5.9...4.2...3...8.....2.7.1....5....4.9......8...3...2.1...7.5......6 ED=11.8/11.8/3.4 My solver gives it a slightly higher level of difficulty than for the 2 first, but in the family of puzzles having the SK loop Your find is isomorphic to the the m\_b\_metcalf puzzle you cited ... but you probably already know that.  $\bigcirc$ QUOTE Re: The hardest sudokus (new thread) champagne 2017 Supporter by champagne » Mon Aug 02, 2010 8:10 am Posts: 7269 Joined: 02 August 2007 **66** ronk wrote: Location: France Brittany **66** champagne wrote: I started a search to see whether ithat patten could be eligible to the pattern game (one puzzle solved by singles) and I got that one 6......5.9...4.2...3...8.....2.7.1....5....4.9......8...3...2.1...7.5......6 ED=11.8/11.8/3.4 My solver gives it a slightly higher level of difficulty than for the 2 first, but in the family of puzzles having the SK loop Your find is isomorphic to the the **m\_b\_metcalf** puzzle you cited ... but you probably already know that. I know that since yesterday evening, but I have for the time being a limited access to the net. In fact, I suspected it when I saw a rating lasting hours, but I made a wrong manipulation when i ckecked for automorphism. I rechecked later and found it... I cancelled the wrong post. Thanks champagne QUOTE Re: The hardest sudokus (new thread) ronk 2012 Supporter □ by **ronk** » Wed Aug 04, 2010 3:52 pm Posts: 4764 Joined: 02 November 2005 66 ttt wrote: Location: Southeastern USA CODE: SELECT ALL 500000080003000069006080003008070006100200700000004000007090000200100000040005000 colBF2 63  $000050009006000100080100040200005000090010030000207000001000800040001060900020007\ tarekdb\ tarx \times 0.104$  $000050009006000100080100040200005000090010030000207000001000800040000060900020017\ tarekdb\ tarx \times 0.105$ <snip> </snip> 000700069000000500060900000080000507000230010040000005080030020001800400007000 col0906 961 30000670407000102000500080000060200000000000000719060008000500010200070400000003 tax tk-1789  $000000063000001009003090005005000090010002000700400800006030008020007000400100000 \ \ coloque \ \ 1073$ 5000000090201000700080003000400020000000500000000706010003000800060004020900000005 tax StrmCkr 50000000902010007000800030004060000000050000000207010003000800060004020900000005 tax m\_b\_mef champagne, as you know, a Sudoku Explainer rating (ER) has become a generally accepted rating for comparing puzzles. Most of the puzzles in the above list, your list, were apparently supplied to you by coloin ... by some means other than public posts AFAIK. Do you have the ERs for those? If not, I'll calculate the second half if you do the first half. QUOTE Re: The hardest sudokus (new thread) champagne 2017 Supporter by champagne » Wed Aug 04, 2010 4:13 pm Posts: 7269 Joined: 02 August 2007 Location: France Brittany champagne, as you know, a Sudoku Explainer rating (ER) has become a generally accepted rating for comparing puzzles. Most of the puzzles in the above list, your list, were apparently supplied to you by coloin ... by some means other than public posts AFAIK. Do you have the ERs for those? If not, I'll calculate the second half if you do the first half. Hi ronk, In that field of hardest puzzles, I have two problems with Sudoku explainer. 1) Each rating takes between one and four hours (slighltly more if I am right for the last one, compared to about 10 seconds with my solver to have a feeling of the difficulty, 2) The ratinr given by Sudoku Explainer does not help at all to find a logic path. Other providers of hardest puzzles are using other ratings (Q2 GSF for example) likely to avoid that difficulty. More or less half of the list is made of puzzles not provided by coloin thru a private link. The SE rating should already exist but I don't no where. Another problem is that that lot is a small part of a huge data base that I hope to grow within next months. I can not afford to rate the full data base and the next hardest to come. Regarding that list, May be you can find what has already been done and I'll rate puzzles i got thru private link. give me one or two days and it will be there champagne PS as thes puzzles are not in the list of hardest if you don't use SK loop EXOCET ..., the ratings should not be that high QUOTE Re: The hardest sudokus (new thread) 2017 Supporter by champagne » Thu Aug 05, 2010 4:14 pm Posts: 7269 Hi ronk. Joined: 02 August 2007 **Location**: France Brittany The puzzles I rated (1 full day of work for my computer) As I expected, ratings are excepting one are in the range 10.5 11.3 champagne CODE: SELECT ALL 000000001060009030002030700400805000000006000030900080001000004050008090700000200 cola199 (qsf morph)ED=10.6/1.2/1.2 000000030000200005005060009003090008070002000100400600008000050200007800040100000 colBF2 1991 ED=10.6/10.6/9.7 500000080003000069006080003008070006100200700000004000007090000200100000040005000 colBF2 63 ED=10.8/10.7/9.6 00305000000040009010000070508004600000090806000200000500000300020600080007000001 colBF2 7 ED=11.2/11.2/7.8 10000000500000003900503080000905008070000200001040000000080050020007000400100600 colBF2 326 ED=10.9/10.9/10.1 000001003000000090006090800008000009700002600010400500003080050020100000400007000 colefg g182 ED=11.3/11.3/3.4 30005070109040006000107000008024000000009002000000080600000000060900080005000003 colBF3 10021 ED=9.9/9.9/2.8 000000030000200005005060009003090008070002000100400600008000050200007800040100000 colBF2 1991 ED=10.6/10.6/9.7 ED=10.7/10.7/9.9 000000063000100009006090050008000006070002000100400000005080030400001800020007000 colz2 957 ED=10.5/1.2/1.2 000000039100000060006090005008060003070402800010000000000080050020001000400700000 coly 245 ED=10.6/10.6/2.6 1004500094000890000010000000080000506000002000700230003000007000200460090000001 colh50 0701-065 ED=10.7/10.0/9.2  $000000080020000069009080000000070006010200700500004300006090030200100000040005000 \ \ col0906 \ \ 1657 \ \ \ ED=10.8/10.8/9.9$ 000000063000007009003090005005000090010002000700400800006030008020001000400700000 col0906 1190 ED=10.9/1.2/1.2 000000063000100009006090050008000006070002000100400800005080030040001000200700000 col0906 2666 ED=10.6/1.2/1.2 ED=11.2/11.2/9.5 001000500000800060300050007090080000000490020200000600700000001060900040005000300 col0906 4450 ED=10.9/1.2/1.2 00300000500040009010005070008004600000090806020000000500000003090800020007000100 col0906 2105 0004000000000039003090005009080006070200000100004000008000050200007800040100600 col0906 461 ED=11.3/1.2/1.2 00301000502040000010000070000020804008004600000000009500000001040600090007000300 col0906 2257 ED=11.2/10.8/9.5 10000000502040008000300070004086000000004906000000002007005100060900000500000003 col0805 857 ED=10.7/10.7/10.0 00100050008040002030000000704090600000004209000000008007030100000600080500000003 col0906 1171 ED=11.2/1.2/1.2 001000500020400080300000007060920000000040090008000006000005100080600000507000003 col0906 3754 ED=10.7/1.2/1.2  $0010005000804000203000000070409600000004209080000000005100020600000507000003 \ \ college 693 \ \ \ ED=11.1/11.1/3.4$ 00301000509040000010000070004080600000004208000000009500000001020600090007000300 col0906 2002 ED=10.6/1.2/1.2 00301000502040000010000070004080600000004906000200000007000100080900020500000003 col0805 1622 ED=11.1/1.2/1.2 000000039200000005003090080000050008070002000100400000006080050020700600400001000 col0805 730 ED=10.9/1.2/1.2 100000500020400060003000000040809000000046080000000200007000001080900020500070300 col0805 856 ED=10.5/10.5/9.5 003000700020400060100050300000082000080904000600000000700000100060800090005000003 col0906 1146 ED=11.1/1.2/1.2 ED=10.5/10.5/9.5 000000060000700059006090000008000005010002300700400000005080030420001800000007000 col0906 3425 ED=10.5/1.2/1.2 00100050002080006030000000704008000000096020200000400700030001000900040005000300 col0906 3526 ED=11.1/1.2/1.2 000000063000001009003090005005000090010002000700400800006030008020007000400100000 col0906 1073 ED=11.0/1.2/1.2 ED=10.6/1.2/1.2  $000002005000000063003060009006050008010200000700400000008000050200007800040100000 \ \ col 10906 \ 583$ ED=11.2/11.0/2.6 000200080000000500605000000803000907000230010000400000900030020700900400001600 col0906 3789 ED=10.6/10.6/2.8 0.80100200005006050000008030009070002300000400000009000030020700900400001600col0906 4548 00301000500040800010000070004000200000004608080000009500000001020600090007000300 col0906 7186 ED=10.6/10.6/9.2 00070006000000005003060009009000008010002000700400000008030050200007800040100300 col0906 388 ED=10.8/1.2/1.2  $000000003070000069009030005003060008010400000700002000000080090020007800400100000 \ \ colog06 \ \ 3939 \ \ \ ED=10.7/1.2/1.2$  $0400000390000000500305008000006000807000200010040000006090050020701600400000000 \ \ col 10805 \ \ 774 \ \ \ \ ED=10.6/10.6/2.6$ 00000703000000005003050080008000006070002000100400900006080090020100600400700000 col0805 28 ED=10.9/1.2/1.2 000000060000700059006090000008000005700002300010400000005080030420001800000007000 col0906 1675 ED=10.5/1.2/1.2 Re: The hardest sudokus (new thread) QUOTE 2012 Supporter by **ronk** » Thu Aug 05, 2010 9:12 pm Posts: 4764 Joined: 02 November 2005 **66** champagne wrote: Location: Southeastern USA The puzzles I rated (1 full day of work for my computer) As I expected, ratings are excepting one are in the range 10.5 11.3 Thanks, that was "quick", relatively speaking. 🖰 Here are the ED ratings for the other eight. After you merge these into your prior post, I'll delete this one. BTW these ratings were produced by Explainer v1.2.1. **CODE: SELECT ALL** 00005000900600010008010004020000500009001003000020700000100800040001060900020007 tarekdb tarx0104 ED=11.0/1.2/1.2  $000050009006000100080100040200005000090010030000207000001000800040000060900020017 \ tarekdb \ tarx 0105 \ ED = 11.0/1.2/1.2$ 00000200130005004000070060050000000209004003000600070000210000040008000080003090 tax ONY ED=11.4/11.4/3.4 003900000400020000080001600000008900000030050070600001005000003090700800200000040 tax dml-1 ED=11.3/11.3/3.4 00305000940010000008000700003000500800003092000000060005060002700004000810000000 tarekdb Pl\_Bl ED=10.6/1.2/1.2 300006704070001020005000800000602000000000000000719060008000500010200070400000003 tax tk-1789 ED=10.7/10.7/10.5 5000000090201000700080003000400020000000500000000706010003000800060004020900000005 tax StrmCkr ED=11.6/11.6/3.4  $500000009020100070008000300040600000000500000000207010003000800060004020900000005 \ tax \ m\_b\_mef$ ED=ED=11.8/11.8/3.4 [edit: correct ER/EP/ED for m\_b\_metcalf puzzle] Last edited by ronk on Fri Aug 06, 2010 8:32 pm, edited 1 time in total. Re: The hardest sudokus (new thread) QUOTE champagne 2017 Supporter by champagne » Fri Aug 06, 2010 3:47 pm Posts: 7269 Joined: 02 August 2007 **66** ronk wrote: **Location:** France Brittany **CODE: SELECT ALL** 500000009020100070008000300040002000000050000000706010003000800060004020900000005 tax StrmCkr ED=11.6/11.6/3.4 500000009020100070008000300040600000000500000000207010003000800060004020900000005 tax m\_b\_mef ED=10.6/10.6/3.4 Hi ronk, a new problem. These two puzzles are very close and in fact have the same pattern. As you know, I published a morph of the second one rated 11.8 11.8 3.6 We know that SE has problems with morphs, but I have never seen such a gap. I am using the current version of SE and face no "un explained prolem" in the pattern gamer. The rating for the first one is consistent with mine (ii.6 vs 11.8) champagne QUOTE Re: The hardest sudokus (new thread) ronk 2012 Supporter by **ronk** » Fri Aug 06, 2010 8:38 pm Posts: 4764 Joined: 02 November 2005 **66** champagne wrote: Location: Southeastern USA CODE: SELECT ALL 5000000090201000700080003000400020000000500000000706010003000800060004020900000005 tax StrmCkr ED=11.6/11.6/3.4  $50000000992010007000800030004060000000050000000207010003000800060004020900000005 \ \ tax \ \ m\_b\_mef$ a new problem. These two puzzles are very close and in fact have the same pattern. Sorry, I somehow rated a different m\_b\_metcalf puzzle. The correct ED rating is 11.8/11.8/3.4. I've edited my post above and double-checked the other seven puzzles. "QUOTE Re: The hardest sudokus (new thread) by **m\_b\_metcalf** » Mon Aug 23, 2010 12:31 pm **66** ronk wrote: **66** champagne wrote: Posts: 13227 The puzzles I rated (1 full day of work for my computer) Joined: 15 May 2006 Location: Berlin As I expected, ratings are excepting one are in the range 10.5 11.3 Thanks, that was "quick", relatively speaking. 😉 Here are the ED ratings for the other eight. ... BTW these ratings were produced by Explainer v1.2.1. **CODE: SELECT ALL** 5000000090201000700080003000406000000005000000020701000300080006000402090000005 tax m\_b\_mef ED=ED=11.8/11.8/3.4 [edit: correct ER/EP/ED for m\_b\_metcalf puzzle] Ah, those were the days, the heady days. It was 'only' 11.4 back then. I peaked early. Regards, Mike Metcalf "QUOTE Re: The hardest sudokus (new thread) champagne 2017 Supporter by champagne » Mon Aug 23, 2010 3:37 pm Posts: 7269 Joined: 02 August 2007 **66** m\_b\_metcalf wrote: Location: France Brittany It was 'only' 11.4 back then. I peaked early. Regards, Mike Metcalf It seems that at that time, the java machine was unable to go to the end. To-day, you get the final result in about 4 hours (on my computer). This puzzle is likely the highest known rating for SE. In fact, as it has the SK loop (and several rank 0 SLGs), it is still a "hard" puzzle but not more. BTW, I tried to find a start for the pattern game using that pattern, but I failed. champagne "QUOTE Re: The hardest sudokus (new thread) 2012 Supporter by **ronk** » Mon Aug 23, 2010 4:38 pm Posts: 4764 Joined: 02 November 2005 **66** champagne wrote: To-day, you get the final result in about 4 hours (on my computer). Since I'm an engineer, statements like that make my hair stand up. <sup>10</sup> Everyone, is it too much to ask that execution times be normalized to ... 'T' GHz-sec? Then the rest of us could estimate execution times on our computers by dividing 'T' by our CPU clock rate. [edit: 'Hz' was 'hz'; my apologies to Mr. Heinrich Rudolf Hertz] Last edited by ronk on Mon Aug 23, 2010 7:03 pm, edited 1 time in total.  $\bigcirc$ Display posts from previous: All posts ✓ Sort by Post time ✓ Ascending ✓ Go Previous Next : 1330 posts • Page 4 of 89 • 1 2 3 4 5 6 7 ... 89 POSTREPLY ⊭ Return to General Jump to: General **✓** Go Powered by phpBB® Forum Software © phpBB Group PHPBB SEO.COM