**RMAT-ER**

number of vertices: 16777216

number of edges: 268435308

zero degree vertices: 0

one degree vertices: 30

min deg: 1

max deg: 42

avg deg: 15.999991 (variance 3.179284)

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trial: 0 BFS with source 6616646 takes 3.951001 seconds (MTEPS = 67.941081)

trial: 1 BFS with source 13138223 takes 3.948464 seconds (MTEPS = 67.984749)

trial: 2 BFS with source 13395599 takes 3.947898 seconds (MTEPS = 67.994486)

trial: 3 BFS with source 15294903 takes 3.955176 seconds (MTEPS = 67.869364)

trial: 4 BFS with source 3314360 takes 3.942694 seconds (MTEPS = 68.084235)

trial: 5 BFS with source 5624103 takes 3.946757 seconds (MTEPS = 68.014153)

trial: 6 BFS with source 12888752 takes 3.946623 seconds (MTEPS = 68.016461)

trial: 7 BFS with source 4660285 takes 3.943536 seconds (MTEPS = 68.069691)

trial: 8 BFS with source 9294072 takes 3.945508 seconds (MTEPS = 68.035677)

trial: 9 BFS with source 8009392 takes 3.943697 seconds (MTEPS = 68.066917)

**RMAT-B**

checking the graph:

number of vertices: 11911170

number of edges: 268397966

zero degree vertices: 0

one degree vertices: 2427784

min deg: 1

max deg: 47060

avg deg: 22.533300 (variance 27.980728)

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trial: 0 BFS with source 4697561 takes 2.212092 seconds (MTEPS = 121.332184)

trial: 1 BFS with source 9327626 takes 2.212540 seconds (MTEPS = 121.307615)

trial: 2 BFS with source 9510353 takes 2.211597 seconds (MTEPS = 121.359340)

trial: 3 BFS with source 10858785 takes 2.210982 seconds (MTEPS = 121.393124)

trial: 4 BFS with source 2353066 takes 2.215692 seconds (MTEPS = 121.135046)

trial: 5 BFS with source 3992894 takes 2.213967 seconds (MTEPS = 121.229413)

trial: 6 BFS with source 9150512 takes 2.215260 seconds (MTEPS = 121.158655)

trial: 7 BFS with source 3308620 takes 2.212930 seconds (MTEPS = 121.286267)

trial: 8 BFS with source 6598429 takes 2.213776 seconds (MTEPS = 121.239898)

trial: 9 BFS with source 5686356 takes 2.224745 seconds (MTEPS = 120.642151)

**Europe-OSM**

checking the graph:

number of vertices: 50912018

number of edges: 108109320

zero degree vertices: 0

one degree vertices: 2055578

min deg: 1

max deg: 13

avg deg: 2.123454 (variance 0.292145)

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trial: 0 BFS with source 20078829 takes 1.304756 seconds (MTEPS = 82.857866)

trial: 1 BFS with source 39869160 takes 1.305997 seconds (MTEPS = 82.779165)

trial: 2 BFS with source 40650192 takes 1.307954 seconds (MTEPS = 82.655320)

trial: 3 BFS with source 46413805 takes 1.297162 seconds (MTEPS = 83.342976)

trial: 4 BFS with source 10057737 takes 1.306992 seconds (MTEPS = 82.716155)

trial: 5 BFS with source 17066865 takes 1.299532 seconds (MTEPS = 83.190972)

trial: 6 BFS with source 39112117 takes 1.299041 seconds (MTEPS = 83.222423)

trial: 7 BFS with source 14142070 takes 1.304718 seconds (MTEPS = 82.860266)

trial: 8 BFS with source 28203727 takes 1.302097 seconds (MTEPS = 83.027074)

trial: 9 BFS with source 24305246 takes 1.307386 seconds (MTEPS = 82.691223)

**coPapersDBLP**

checking the graph:

number of vertices: 540486

number of edges: 30491458

zero degree vertices: 0

one degree vertices: 8864

min deg: 1

max deg: 3299

avg deg: 56.414890 (variance 45.563110)

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trial: 0 BFS with source 213157 takes 0.056888 seconds (MTEPS = 535.992570)

trial: 1 BFS with source 423253 takes 0.056556 seconds (MTEPS = 539.133964)

trial: 2 BFS with source 431544 takes 0.056255 seconds (MTEPS = 542.026602)

trial: 3 BFS with source 492731 takes 0.056433 seconds (MTEPS = 540.312176)

trial: 4 BFS with source 106772 takes 0.056819 seconds (MTEPS = 536.643910)

trial: 5 BFS with source 181182 takes 0.056596 seconds (MTEPS = 538.758243)

trial: 6 BFS with source 415216 takes 0.056572 seconds (MTEPS = 538.988795)

trial: 7 BFS with source 150132 takes 0.056745 seconds (MTEPS = 537.346077)

trial: 8 BFS with source 299412 takes 0.056679 seconds (MTEPS = 537.969064)

trial: 9 BFS with source 258025 takes 0.056668 seconds (MTEPS = 538.074348)

**Wiki-topcats**

checking the graph:

number of vertices: 1791489

number of edges: 28508141

zero degree vertices: 0

one degree vertices: 56112

min deg: 1

max deg: 3907

avg deg: 15.913099 (variance 12.945384)

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trial: 0 BFS with source 706531 takes 0.174522 seconds (MTEPS = 163.349708)

trial: 1 BFS with source 1402912 takes 0.173611 seconds (MTEPS = 164.206599)

trial: 2 BFS with source 1430395 takes 0.172407 seconds (MTEPS = 165.353971)

trial: 3 BFS with source 1633205 takes 0.174847 seconds (MTEPS = 163.045794)

trial: 4 BFS with source 353910 takes 0.173119 seconds (MTEPS = 164.674062)

trial: 5 BFS with source 600546 takes 0.172720 seconds (MTEPS = 165.054423)

trial: 6 BFS with source 1376273 takes 0.173385 seconds (MTEPS = 164.421006)

trial: 7 BFS with source 497629 takes 0.174200 seconds (MTEPS = 163.651967)

trial: 8 BFS with source 992430 takes 0.172993 seconds (MTEPS = 164.793675)

trial: 9 BFS with source 855250 takes 0.173078 seconds (MTEPS = 164.712641)