

Comparison Graphs on circle

Results for : MacBook Pro 2020 I7 16 ram

Graph : G_10_80_1

	connected compenent(8)	connected compenents	shortest path(1,4)
python	SIZE = 10 TIME = 0.00014	TOTAL = 1 TIME = 0.00015	WEIGHT = 21.506 TIME = 0.000238
java	SIZE = 10 TIME = 0.001	TOTAL = 1 TIME = 0.001	WEIGHT = 21.506 TIME = 0.002
networkX	XXX XXX	TOTAL = 1 TIME = 0.0001	WEIGHT = 21.506 TIME = 0.000001

Graph : G_100_800_1

	connected compenent(66)	connected compenents	shortest path(5,9)
python	SIZE = 100 TIME = 0.00150	TOTAL = 1 TIME = 0.00149	WEIGHT = 51.07748442 TIME = 0.002877
java	SIZE = 100 TIME = 0.005	TOTAL = 1 TIME = 0.008	WEIGHT = 51.07748442 TIME = 0.002
networkX	XXX XXX	TOTAL = 1 TIME = 0.0001	WEIGHT = 51.07748442 TIME = 0.001

Graph : G_1000_8000_1

	connected compenent(44)	connected compenents	shortest path(100,500)
python	SIZE = 999 TIME = 0.0158	TOTAL = 2 TIME = 0.0323	WEIGHT = 92.1899726 TIME = 0.02475
java	SIZE = 999 TIME = 0.047	TOTAL = 2 TIME = 0.06	WEIGHT = 92.1899726 TIME = 0.007
networkX	XXX XXX	TOTAL = 2 TIME = 0.0001	WEIGHT = 92.1899726 TIME = 0.004

Graph : G_10000_80000_1

	connected compenent(2000)	connected compenents	shortest path(1,2000)
python	SIZE = 9996 TIME = 0.2221	TOTAL = 5 TIME = 1.4980	WEIGHT = 113.167706 TIME = 0.3473
java	SIZE = 9996 TIME = 0.394	TOTAL = 5 TIME = 0.676	WEIGHT = 113.167706 TIME = 0.057
networkX	XXX XXX	TOTAL = 5 TIME = 0.015	WEIGHT = 113.167706 TIME = 0.098

Graph : G_20000_160000_1

	connected compenent(12000)	connected compenents	shortest path(1000,6500)
python	SIZE = 199989 TIME = 0.4644	TOTAL = 12 TIME = 6.9208	WEIGHT = 94.696965 TIME = 0.8292
java	SIZE = 199989 TIME = 1.143	TOTAL = 12 TIME = 2.386	WEIGHT = 94.696965 TIME = 0.081
networkX	XXX XXX	TOTAL = 12 TIME = 0.020	WEIGHT = 94.696965 TIME = 0.181

Graph : G_30000_240000_1

	connected compenent(28000)		shortest path(12345,24678)
python	SIZE = 29979 TIME = 0.9062	TOTAL = 22 TIME = 17.92836	WEIGHT = 98.63099 TIME = 1.1409
java	SIZE = 29979 TIME = 2.268	TOTAL = 22 TIME = 6.243	WEIGHT = 98.63099 TIME = 0.079
networkX	XXX XXX	TOTAL = 22 TIME = 0.035	WEIGHT = 98.63099 TIME = 0.171

Python

Shortest path			Connected component		Connected components	save	load	← Time(sec)
Id1	Id2	time	key	time				Graphs_on_circle
1	4	0.000238	8	0.00014	0.00015	0.0036	0.0012	G_10_80_1
5	9	0.002877	66	0.00150	0.00149	0.00651	0.0052	G_100_800_1
100	500	0.02475	44	0.01581	0.0323	0.0657	0.034	G_1000_8000_1
1	2000	0.3473	2000	0.2221	1.4980	0.688	0.375	G_10000_80000_1
1000	6500	0.8292	12000	0.4644	6.9208	1.409	0.708	G_20000_160000_1
12345	24678	1.1409	28000	0.9062	17.92836	0.0015	0.0011	G_30000_240000_1

Java

Shortest path			Connected component		Connected components	Save + load	← Time(sec)
Id1	Id2	time	key	time			Graphs_on_circle
1	4	0.002	8	0.001	0.001	0.056	G_10_80_1
5	9	0.002	66	0.005	0.008	0.098	G_100_800_1
100	500	0.007	44	0.047	0.06	0.25	G_1000_8000_1
1	2000	0.057	2000	0.394	0.676	0.741	G_10000_80000_1
1000	6500	0.081	12000	1.143	2.386	1.29	G_20000_160000_1
12345	24678	0.079	28000	2.268	6.243	1.694	G_30000_240000_1