|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NUMBER OF TRIANGLES** | | | | | | | |
| **Dataset** | **Exact number of triangles (C=1)** | **Approximation through**  **Node Coloring**  **(median over R runs )** | | | **Approximation through**  **Spark Partitions** | | |
| C=2, R=5 | C=4, R=5 | C=8, R=5 | C=2 | C=4 | C=8 |
| **facebook\_large.txt** | 794953 | 800016 | 790496 | 786240 | 809596 | 990208 | 1600704 |
| **youtube.txt** | 3056386 | 3088684 | 3026144 | 3033792 | 3118860 | 3420064 | 4283584 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **RUNNING TIME (in ms)** | | | | | | |
| **Dataset** | **Approximation through**  **Node Coloring**  **(average over R runs)** | | | **Approximation through**  **Spark Partitions** | | |
| C=2, R=5 | C=4, R=5 | C=8, R=5 | C=2 | C=4 | C=8 |
| **facebook\_large.txt** | 221 | 141 | 154 | 207 | 127 | 98 |
| **youtube.txt** | 4603 | 1230 | 674 | 6665 | 2609 | 1847 |

Results obtained by randomly permuting the edges in the input files

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NUMBER OF TRIANGLES** | | | | | | | |
| **Dataset** | **Exact number of triangles (C=1)** | **Approximation through**  **Node Coloring**  **(median over R runs )** | | | **Approximation through**  **Spark Partitions** | | |
| C=2, R=5 | C=4, R=5 | C=8, R=5 | C=2 | C=4 | C=8 |
| **facebook\_large.txt** | 794953 | 787020 | 806512 | 776960 | 793136 | 796768 | 795840 |
| **youtube.txt** | 3056386 | 3050800 | 3067536 | 3028480 | 3058080 | 3069248 | 3083328 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **RUNNING TIME (in ms)** | | | | | | |
| **Dataset** | **Approximation through**  **Node Coloring**  **(average over R runs)** | | | **Approximation through**  **Spark Partitions** | | |
| C=2, R=5 | C=4, R=5 | C=8, R=5 | C=2 | C=4 | C=8 |
| **facebook\_large.txt** | 253 | 156 | 229 | 255 | 155 | 146 |
| **youtube.txt** | 5633 | 1832 | 818 | 9210 | 4948 | 2669 |