**Universidad Central del Ecuador**

*Criptografía y Seguridad de la Información*

Octavo Semestre

* Arteaga Jhon
* Rivera Cristina
* Salazar Augusto
* Cacuango Mauricio

Tiempos de los Algoritmos

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Algoritmo** | **#palabras** | **#c\_entrada** | **#c\_salida** | **T-E1** | **T-E2** | **T-E3** | **T-E4** | **T-Total** |
| **RC4** | 10 | 78 | 78 | 0.000250100 | 0.000177899 | 0.000262899 | 0.000337599 | **0.0007784** |
| 100 | 720 | 720 | 0.000303800 | 0.000338699 | 0.000865200 | 0.000865200 | **0.0023729** |
| 1000 | 7573 | 7573 | 0.005159400 | 0.005883600 | 0.003774200 | 0.004432900 | **0.0192501** |
| 10000 | 75865 | 75865 | 0.064518400 | 0.087352400 | 0.074473300 | 0.037516500 | **0.2638606** |
| 100000 | 758301 | 758301 | 0.327127600 | 0.271033700 | 0.254667800 | 0.312010800 | **1.1648399** |
| 1000000 | 7574885 | 7574885 | 2.866211000 | 2.559517100 | 2.314224900 | 2.313881400 | **10.0538344** |
| 10000000 | 7571794 | 7571794 | 2.378859900 | 2.822799100 | 3.236324300 | 3.339119400 | **11.7771027** |
| **MQQ-SIG** | 10 | 78 | 78 | 0.000370800 | 0.000970500 | 0.000416200 | 0.000500400 | **0.00225790** |
| 100 | 720 | 720 | 0.002149700 | 0.001446000 | 0.001970500 | 0.001950700 | **0.0075169** |
| 1000 | 7573 | 7573 | 0.021951600 | 0.012146900 | 0.019121500 | 0.008939200 | **0.0621592** |
| 10000 | 75865 | 75865 | 0.199480600 | 0.100785500 | 0.204677500 | 0.108071300 | **0.6130149** |
| 100000 | 758301 | 758301 | 2.092516000 | 0.924164700 | 2.168403800 | 0.914703000 | **6.09978750** |
| 1000000 | 7574885 | 7574885 | 29.588751000 | 9.964978600 | 28.434988000 | 9.552535000 | **77.5412526** |
| 10000000 | 7571794 | 7571794 | 29.186557600 | 9.869906900 | 28.975532400 | 9.807992600 | **77.8399895** |
| **SHA-512** | 10 | 78 | 128 | 0.000803200 | - | 0.001266700 | - | **0.0020699** |
| 100 | 720 | 128 | 0.000715300 | - | 0.000749600 | - | **0.0014649** |
| 1000 | 7573 | 128 | 0.000879700 | - | 0.001132300 | - | **0.002012** |
| 10000 | 75865 | 128 | 0.001154600 | - | 0.000946400 | - | **0.002101** |
| 100000 | 758301 | 128 | 0.009872900 | - | 0.002674200 | - | **0.0125471** |
| 1000000 | 7574885 | 128 | 0.017803400 | - | 0.021394000 | - | **0.0391974** |
| 10000000 | 7571794 | 128 | 0.017164000 | - | 0.017739000 | - | **0.034903** |