TIME COMPUTING IN LINUX AND UBUNTU

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Function | OS | 100KB | 700KB | 900KB | 1MB | 2,5MB | 2MB |
| SHA224 | Windows | 0,092 | 0,311 | 0,411 | 0,714 | 1,22 | 0,825 |
| Ubuntu | 0.083 | 0.323 | 0.455 | 0.742 | 1.12 | 0.844 |
| SHA256 | Windows | 0,067 | 0,411 | 0,482 | 0.852 | 1.223 | 1.625 |
| Ubuntu | 0.046 | 0.402 | 0.461 | 0.926 | 1.45 | 1.123 |
| SHA384 | Windows | 0,152 | 0.796 | 1.034 | 2,651 | 3,511 | 3,22 |
| Ubuntu | 0.164 | 0.812 | 1.055 | 2.872 | 3.676 | 3.446 |
| SHA512 | Windows | 0,174 | 1,141 | 1,901 | 2.996 | 3,45 | 4,096 |
| Ubuntu | 0.162 | 1.092 | 1.624 | 3.125 | 3.332 | 3.922 |
| SHA3\_224 | Windows | 0,204 | 2,076 | 1,849 | 2,192 | 5,347 | 4,019 |
| Ubuntu | 0.223 | 1.295 | 1.561 | 3.549 | 4.392 | 3.589 |
| SHA3\_256 | Windows | 0,218 | 1,822 | 2,321 | 4.623 | 4,621 | 3,732 |
| Ubuntu | 0.262 | 1.354 | 1.704 | 3.911 | 4.262 | 3.544 |
| SHA3\_384 | Windows | 0,317 | 2,873 | 2,589 | 3,215 | 5,166 | 4.212 |
| Ubuntu | 0.238 | 1.996 | 2.262 | 4.102 | 5.832 | 5.011 |
| SHA3\_512 | Windows | 0,418 | 2,668 | 4,326 | 4,125 | 8,343 | 7.021 |
| Ubuntu | 0.433 | 2.772 | 4.306 | 5.032 | 8.723 | 6.129 |
| SHAKE128 | Windows | 0,177 | 1,55 | 2,506 | 2.638 | 3,153 | 3,252 |
| Ubuntu | 0.186 | 1.887 | 1.408 | 3.021 | 3.244 | 3.667 |
| SHAKE256 | Windows | 0,217 | 1,594 | 2,253 | 4,432 | 4,155 | 4,367 |
| Ubuntu | 0.225 | 1.461 | 2.162 | 3,982 | 4.297 | 3.798 |

Nhận Xét:

* Qua bản trên ta thời thòi gian hash bên Ubuntu và thời gian hash bên Window không có sự chênh lệch đáng kể với nhiều kích thước file khác nhau

Create Aphche File:

A screenshot of a computer

Description automatically generated

LAB6:

6.1

A screen shot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

6.2

Sha1

A screen shot of a computer screen

Description automatically generated

Sha256

A screen shot of a computer

Description automatically generated

Sha512

