Nome: Davi Teixeira Silva
Matricula: 433951

Para encriptar o arquivo:

O arquivo escolhido foi o 2014_12-Traffic_Sensors_Fortaleza.csv de 470.8 MB

comando: gpg -c 2014_12-Traffic_Sensors_Fortaleza.csv

para o md5sum encriptado:
md5sum 2014_01-Traffic_Sensors_Fortaleza.csv.gpg
eed059c4bbc572d5d99a2f81c09bc758

para o sha1sum encriptado:
sha1sum 2014_01-Traffic_Sensors_Fortaleza.csv.gpg
c89bd279182dc02bc946a8029d43adc36318970c

para o zip:
time zip 2014_12-Traffic_Sensors_Fortaleza.zip 2014_12-Traffic_Sensors_Fortaleza.csv

adding: 2014_12-Traffic_Sensors_Fortaleza.csv (deflated 65%)

real   0m45.613s
user   0m39.103s
sys   0m0.336s

para o gzip:
time gzip -k 2014_12-Traffic_Sensors_Fortaleza.csv

real   1m0.926s
user   0m33.691s
sys   0m0.425s

para 7zip:
time 7z a 2014_01-Traffic_Sensors_Fortaleza.7z 2014_01-Traffic_Sensors_Fortaleza.csv

7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21
p7zip Version 16.02 (locale=C.UTF-8,Utf16=on,HugeFiles=on,64 bits,4 CPUs Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz (806E9),ASM,AES-NI)

Scanning the drive:
1 file, 470766419 bytes (449 MiB)

Creating archive: 2014_12-Traffic_Sensors_Fortaleza.7z

Items to compress: 1

Files read from disk: 1
Archive size: 103127314 bytes (99 MiB)
Everything is Ok

```
real    4m44.872s
user    11m33.921s
sys     0m22.801s
```

para o rar:
time rar a 2014_12-Traffic_Sensors_Fortaleza.rar 2014_01-Traffic_Sensors_Fortaleza.csv

Creating archive 2014_12-Traffic_Sensors_Fortaleza.rar

Adding   2014_12-Traffic_Sensors_Fortaleza.csv   OK
Done

```
real    1m46.346s
user    5m49.201s
sys     0m6.434s
```

para o bzip2:
time bzip2 -k 2014_01-Traffic_Sensors_Fortaleza.csv

Não deu Certo

bzip2: I/O or other error, bailing out. Possible reason follows.
bzip2: Operation not permitted
     Input file = 2014_12-Traffic_Sensors_Fortaleza.csv, output file = 2014_12-Traf-fic_Sensors_Fortaleza.csv.bz2
bzip2: Deleting output file 2014_12-Traffic_Sensors_Fortaleza.csv.bz2, if it exists.

```
real    1m29.170s
user    0m53.496s
sys     0m2.156s
```

Nome	Tamanho Inicial (MB)	Tamanho Compactado (MB)	Tipo de Compactação	Tempo
2014_12-Traffic_Sensors_Fortaleza.zip	470.8 MB	157 MB	zip	0m45.613s
2014_12-Traffic_Sensors_Fortaleza.7z	470.8 MB	98,3 MB	7zip	4m44.872s
2014_12-Traffic_Sensors_Fortaleza.gz	470.8 MB	157 MB	gz	1m0.926s
2014_12-Traffic_Sensors_Fortaleza.rar	470.8 MB	116 MB	rar	1m46.346s