HW#3
CS 458

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Comments

The story I chose was an English story. As such, we notice that the frequency of the letter e is much higher than any other letters. The next highest is t, etc. following the probabilistic estimation of the English language.

For encrypting I used gpg 1.4.8 and aescrypt 0.7. The computation time between the two are extremely comparable.

Plain Text

a 14603
b 2751
c 5140
d 8852
e 23740
f 4729
g 3719
h 11816
i 12876
j 289
k 1360
l 6471
m 4353
n 13842
o 13587
p 3544
q 148
r 11589
s 10774
t 17416

u 4922
v 1686
w 4092
x 309
y 2930
z 109

Symmetric Encryption

Time

real 0m4.653s
user 0m0.593s
sys 0m0.010s

Breakdown

a 3703
b 3674
c 3572
d 3643
e 3828
f 3725
g 3785
h 3761
i 3659
j 3621
k 3676
l 3763
m 3782
n 3769

o 3855
p 3785
q 3647
r 3675
s 3730
t 3733
u 3781
v 3701
w 3739
x 3817
y 3735
z 3721

u 3701
v 3723
w 3701
x 3651
y 3680
z 3710

Story

http://www.gutenberg.org/files/26965/26965.txt

GPG

Time

real 0m6.632s
user 0m0.554s
sys 0m0.009s

Breakdown

a 3800
b 3740
c 3712
d 3781
e 3573
f 3725
g 3799
h 3694
i 3714
j 3683
k 3638
l 3796
m 3854
n 3704
o 3644
p 3696
q 3691
r 3738
s 3715
t 3676