# Отчет по лабораторной работе N2

Цель работы:

Познакомить студента с принципами компиляции исходного кода. Составить

программу с использованием циклов, условий и функций. Сравнить быстродействие

между C++ и Python. Ознакомление с типами данных.

Итог:

Python:

Enter the number of calculations: 10000

Time spent for 10000 calculations is 0.003 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations: 50000

Time spent for 50000 calculations is 0.016 seconds

Evaluate again?

[Y/N]

100000

Try again!

Evaluate again?

[Y/N]

Y

Enter the number of calculations: 100000

Time spent for 100000 calculations is 0.03 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations: 200000

Time spent for 200000 calculations is 0.066 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations: 500000

Time spent for 500000 calculations is 0.155 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations: 750000

Time spent for 750000 calculations is 0.227 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations: 1000000

Time spent for 1000000 calculations is 0.306 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations: 1500000

Time spent for 1500000 calculations is 0.456 seconds

Evaluate again?

[Y/N]

2000000

Try again!

Evaluate again?

[Y/N]

Y

Enter the number of calculations: 2000000

Time spent for 2000000 calculations is 0.598 seconds

Evaluate again?

[Y/N]

N

C++:

Enter the number of calculations:

10000

Time spent for 10000 calculations is 0.00103 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations:

50000

Time spent for 50000 calculations is 0.005268 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations:

100000

Time spent for 100000 calculations is 0.010272 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations:

200000

Time spent for 200000 calculations is 0.02104 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations:

500000

Time spent for 500000 calculations is 0.051491 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations:

750000

Time spent for 750000 calculations is 0.076235 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations:

1000000

Time spent for 1000000 calculations is 0.102892 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations:

1500000

Time spent for 1500000 calculations is 0.156545 seconds

Evaluate again?

[Y/N]

Y

Enter the number of calculations:

2000000

Time spent for 2000000 calculations is 0.209811 seconds

Evaluate again?

[Y/N]

N

\*\* Process exited - Return Code: 0 \*\*