**Assignment 6:  
Execution Time of Variable Types**

**Cal Poly CPE 329-01**

**Spring 2017**

Brendan Baronia

Melinda Ong

Professor Gerfen, Jeffrey B.

**April 26, 2017**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Function | char | int | long long | float | double |
| Subroutine call | 8 μs | 8 μs | 10 μs | 8 μs | 13 μs |
| x=n | 9 μs | 9 μs | 13 μs | 9 μs | 17 μs |
| x=n+1 | 10 μs | 10 μs | 14 μs | 10 μs | 63 μs |
| x=n+7 | 10 μs | 10 μs | 14 μs | 10 μs | 63 μs |
| x=n\*2 | 10 μs | 10 μs | 14 μs | 10 μs | 51 μs |
| x=n\*3 | 10 μs | 10 μs | 18 μs | 10 μs | 51 μs |
| x=n/2 | 11 μs | 10 μs | 16 μs | 15 μs | 75 μs |
| x=n/3 | 12 μs | 11 μs | 57 μs | 15 μs | 68 μs |
| x=sin(n) | 1669 μs | 1671 μs | 1762 μs | 1639 μs | 1627 μs |
| x=sinh(n) | 2514 μs | 2517 μs | 2610 μs | 2481 μs | 2469 μs |
| x=sqrt(n) | 378 μs | 381 μs | 474 μs | 345 μs | 333 μs |
| x=abs(n) | 11 μs | 10 μs | 14 μs | 13 μs | 75 μs |