

### Program Output:

Input matrix:

1 4 2 4  
4 4 2 4  
1 3 4 3  
1 1 2 3

Input matrix:

1 2 4 2  
4 1 1 2  
3 3 3 3  
1 3 2 1

Regularly multiplied n = 4 matrix

27 24 22 20  
30 30 34 26  
28 26 25 23  
14 18 17 13

Strassen multiplied n = 4 matrix

25 -7 24 51  
52 32 12 24  
10 24 43 25  
18 36 13 -5

| #n   | SM_t        | SM_O        | ST_t        | ST_O    |
|------|-------------|-------------|-------------|---------|
| 2    | 0           | 20.5298     | 35          | 157.347 |
| 4    | 2           | 82.1193     | 117         | 629.39  |
| 8    | 11          | 328.477     | 545         | 1888.17 |
| 16   | 24          | 1313.91     | 1446        | 5035.12 |
| 32   | 190         | 5255.63     | 9987        | 12587.8 |
| 64   | 1480        | 21022.5     | 63986       | 30210.7 |
| 128  | 9559        | 84090.1     | 359923      | 70491.7 |
| 256  | 74850       | 336360      | 2.50031e+06 | 161124  |
| 512  | 741012      | 1.34544e+06 | 1.8151e+07  | 362529  |
| 1024 | 6.34856e+06 | 5.38177e+06 | 1.376e+08   | 805619  |

### Plot:

