**Operating System Project**

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**OS Project with threads**

Personal laptop with dual-core Intel Core i5 (with hyperthreading)

Output:

The array results are:

[1031] [4503] 2509.18

[1032] [4502] 2519.13

**[1032] [4503] 2500**

[1032] [4504] 2498.3

[1033] [4503] 2522.04

Processing time of the array multiplication using threads was 7528626 milliseconds ≈ 125 mins ≈ 2.09 hour

**OS Project without threads**

Personal laptop with dual-core Intel Core i5 (with hyperthreading)

Output:

The array results are:

[1031] [4503] 2499.03

[1032] [4502] 2515.44

**[1032] [4503] 2500**

[1032] [4504] 2492.26

[1033] [4503] 2502.77

Processing time of the array multiplication without the use of thread was 10206887 milliseconds ≈ 170 mins ≈ 2.84 hour

**Final Analysis**

With the same processor, program using threads runs faster (approximately an hour faster) than the one that does not use threads.