

Following results are calculated on a matrix A of dimensions 1024 x 512

1. cpu code.cpp

Time measured is

```
● deepam20050@newton:~/Desktop/Lab 3$ ./cpu_exec  
[CPU] Transpose Time measured: 0.007931509 seconds.  
[CPU] A_T * A Time measured: 1.263126784 seconds.  
○ deepam20050@newton:~/Desktop/Lab 3$
```

2. gpu code.cu

```
● deepam20050@newton:~/Desktop/Lab 3$ ./gpu_exec  
[GPU] Global Memory Transpose Time measured: 0.005344000 milliseconds.  
[GPU] Global Memory A_T * A Time measured: 0.004352000 milliseconds.  
[GPU] Shared Memory Transpose Time measured: 0.003968000 milliseconds.  
[GPU] Shared Memory A_T * A Time measured: 0.003872000 milliseconds.  
○ deepam20050@newton:~/Desktop/Lab 3$
```