

## **README**

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Files submitted in number in the zip file : 3

1)ES18BTECH11011\_source.c (C code file)

2)ES18BTECH11011\_Report.pdf

3)ES18BTECH11011\_README.pdf

**Compile if as :** gcc ES18BTECH11011\_source.c -lpthread -lrt

### **Non-Interactive**

**Run it as :** ./a.out --ar 10 --ac 10 --br 10 --bc 10

Output:

Time taken for single threaded: 18 us

Time taken for multi process: 1834 us

Time taken for multi threaded: 1206 us

Speedup for multi process : 0.01 x

Speedup for multi threaded : 0.01 x

### **Interactive**

./a.out --ar 3 --ac 3 --br 3 --bc 3 --interactive

The input and output in interactive mode is as follows:

Enter A:

2 3 4

4 3 4

5 3 7

Enter B:

1 0 0

0 1 0

0 0 1

Result:

2 3 4

4 3 4

5 3 7

Enter A:

2 3 4

4 3 4

5 3 7

Enter B:

1 0 0

0 1 0

0 0 1

Result:

2 3 4

4 3 4

5 3 7

Enter A:

2 3 4

4 3 4

5 3 7

Enter B:

1 0 0

0 1 0

0 0 1

Result:

2 3 4

4 3 4

5 3 7

Time taken for single threaded: 2 us

Time taken for multi process: 2353 us

Time taken for multi threaded: 1347 us

Speedup for multi process : 0.00 x

Speedup for multi threaded : 0.00 x

Are the following outputs observed.