

README

Number of files submitted : 3

- 1.CS18BTECH11018_prg.c (Source code .c file)
- 2.CS18BTECH11018_readme.pdf(current file)
- 3.CS18BTECH11018_report.pdf

To compile :

```
$ gcc CS18BTECH11018_prg.c -lpthread -lrt
```

To run:

1. Interactive mode:

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

SAMPLE INPUT and OUTPUT:

Enter A:

1 2 3

4 5 6

7 8 9

Enter B:

1 2 3

4 5 6

7 8 9

Result:

30 36 42

66 81 96

102 126 150

Enter A:

1 2 3

4 5 6

7 8 9

Enter B:

1 2 3

4 5 6

7 8 9

Result:

30 36 42

66 81 96

102 126 150

Enter A:

1 2 3

4 5 6

7 8 9

Enter B:

1 2 3

4 5 6

7 8 9

Result:

30 36 42

66 81 96

102 126 150

Time taken for single threaded: 2 us

Time taken for multi process: 1885 us

Time taken for multi threaded: 704 us

Speedup for multi process : 0.00 x

Speedup for multi threaded : 0.00 x

2. NON-Interactive mode:

To run:

```
$ ./a.out --ar 100 --ac 100 --br 100 --bc 100
```

SAMPLE INPUT and OUTPUT:

Time taken for single threaded: 4837 us

Time taken for multi process: 1088 us

Time taken for multi threaded: 828 us

Speedup for multi process : 4.45 x

Speedup for multi threaded : 5.84 x

