Operating Systems

Lab ||Threads

Name: Omar Shawky Anwer Ahmed

Seat Number: 43

Code Organization and main functions

void intialize(int argc,char **argv):

To get the file names from the command line of set it by the default value.

void readMatrix(char *fileName,int isFirst,int *r ,int *c):

Used to read the matrix from the file called *fileName or say that the file is not found a terminate.

void* rowRunnable(void* arg) :

The function executed by the threads to compute the matrix multiplication using the first method.

void *elementRunnable(void *arg) :

The function executed by the threads to compute the matrix multiplication using the second method.

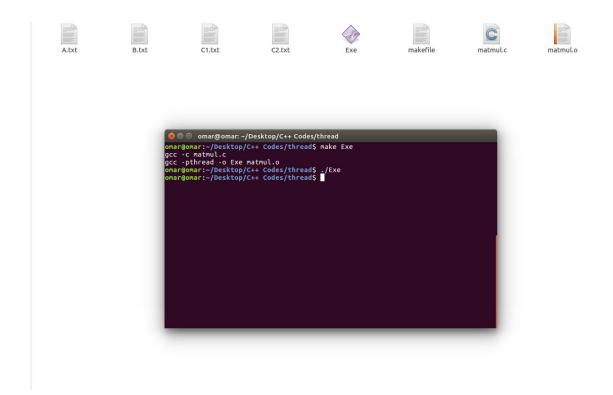
void writeMatrix(char* fileName,int first):

Used to write the matrix in the file called *fileName.

The flow of the program

- The main call the initialize function.
- Allocate the space for the output matrices.
- Compute the matrix multiplication using row processing.
- Compute the matrix multiplication using element processing.
- Write the final matrices in the output files
- Free the memory allocated dynamically.

How to compile and run



Sample Runs

