Explainer Document

Requirements

Correct Makefile - we have this

Correct input arguments and their constraints - all our input arguments pass into the program, please note at this time, only 2 threads and 2 input files work in our pthreads function Correct/Working metadata file - our metadata parsing function parses and extracts all the contents from metadata by the given path

Correct lock configuration

Lock 1 - we have implemented mutex lock inside our pthreads function for this one

Lock 2 - not yet complete

Lock 3 - not yet complete

Correct global point checking

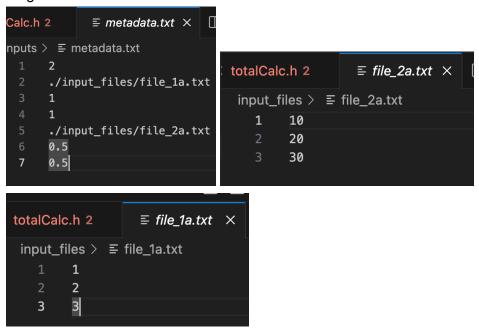
Global 1 - we have pthreads_barrier but it is not functional

Global 0 - this has been completed

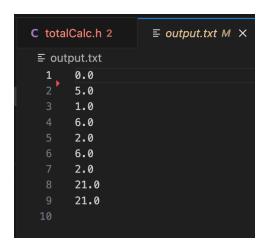
Correct Output File - we write to an output file but not correct outputs

Modifications

Inside metadata.txt we have replaced file_1 with file_1a and file_2 with file_2a to remove the ee ff signature



Below shows the write to our output.txt file under lock_config = 1



Below demonstrates that input file 1 and input file 2 print out in alternating threads by the buffer size of 2

Input file 1 = 1,2,3

Input file 2 = 10,2,0,30

This showcases concurrently running multi threads

```
PROBLEMS 54
                                      DEBUG CONSOLE
                           TERMINAL
 n.metaDataStruct[i]); // this is index[count++], 2nd and up executi
  "count" inside the loop that increments ++ after each execution
 /Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/pth
  argument to parameter here
                void * _Nullable (* _Nonnull)(void * _Nullable),
 9 warnings generated.
(base) Williams-MacBook-Pro-5:300-asn3 willting$ ./myChannels
 82 1
 82
 82 1
 82 0
 82 2
 82
 82
 82 2
 82 3
 82 0
 82
 82 3
 82 0
```