The following results are recorded on an Ubuntu 20.04.1 operating system. It is dual booted with Windows 10 but for the testing purposes Linux was used. System specifications are:

Intel i7 7700HQ @ 2.8GHz with turboboost up to 3.8GHz on single core,

4 cores 8 logical cores,

32GB DDR4 2400mhz

| Nr. of People | Nr. Of Flips | Global Lock | Iteration Lock | Coin Lock |
|---------------|--------------|-------------|----------------|--------------|
| 100 | 10000 | 105.574 ms | 2266.998 ms | 12094.878 ms |
| 100 | 20000 | 177.009 ms | 5108.256 ms | 31882.591 ms |
| 200 | 10000 | 196.583 ms | 5400.496 ms | 32219.084 ms |
| 200 | 20000 | 255.816 ms | 10287.840 ms | 57343.245 ms |

We can observe that having more locks increases the overall execution times of the program. As Global Lock have less locks than Iteration Lock, we see faster execution times, same with the Coin Lock having more locks than Iteration Lock resulting in higher execution times.

Copy of the terminal log is attached in the zip file.

P.S: At first, I was surprised by the high execution times with the system I am running it on, tried to do some research on google but found no useful article about it. I thought at first processor is not maxing out its core clocks but shown on the picture below it is running all the cores at maximum speed, 3.4 GHz.

```
shahin@shahin-GL503VM: ~
Cpu speed from cpuinfo 2807.00Mhz
cpuinfo might be wrong if cpufreq is enabled. To guess correctly try estimating
Linux's inbuilt cpu_khz code emulated now
True Frequency (without accounting Turbo) 2807 MHz
   CPU Multiplier 28x || Bus clock frequency (BCLK) 100.25 MHz
Socket [0] - [physical cores=4, logical cores=8, max online cores ever=4]
TURBO ENABLED on 4 Cores, Hyper Threading ON
   Max Frequency without considering Turbo 2907.25 MHz (100.25 x [29])
Max TURBO Multiplier (if Enabled) with 1/2/3/4 Cores is 38x/36x/35x/34x
   Real Current Frequency 3333.60 MHz [100.25 x 33.25] (Max of below)
Core [core-id] :Actual Freq (Mult.) C0% Halt(C1)% C
                                                                                           Halt(C1)% C3 %
                                                                                                                          C6 %
            Core 1 [0]:
Core 2 [1]:
Core 3 [2]:
Core 4 [3]:
                                       3333.60 (33.25x)
3287.52 (32.79x)
3316.32 (33.08x)
3321.07 (33.13x)
                                                                                                                      5.17
                                                                                                          3.5
                                                                                  83
                                                                                                                      5.44
                                                                                 85
                                                                                                0
                                                                                                         1.41
                                                                                                                       4.76
                                                                                                0
                                                                                                                       5.31
C0 = Processor running without halting
C1 = Processor running with halts (States >C0 are power saver modes with cores i
C3 = Cores running with PLL turned off and core cache turned off
C6, C7 = Everything in C3 + core state saved to last level cache, C7 is deeper t
Above values in table are in percentage over the last 1 sec
```