Midterm Project Part2 Report

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1. Experiment Setting:

We conduct experiments with difficulties among 6, 8, 12, 16, 24. For the easy puzzles, we count total number of mined blocks within 2 minutes. For the tougher one (# = 24), we pick threshold to be 20 minutes. To achieve a relatively precise result, we only take time thread’s working into account.

(Temp) We set 10 seconds as limited working time to deal with high resource utilization when difficulty is pretty high.

2.

|  |  |  |
| --- | --- | --- |
| Mining Rate  Difficulty (block/sec)  (# of leading zeros) | Record(rm later) | Avg  (block / sec) |
| 6 bits |  |  |
| 8 bits | 44604 | 371.7 |
| 12 bits |  |  |
| 16 bits | 456 | 4.098 |
| 24 bits | 22 (20min) | 0.018 |

Record: 24bits only mine

3. Result

Brief

4. Assignment

Brief