Researched on CPU – intensive works, found following algorithms and tested.

Conclusion: Use factorial or SHA256 to first 6 or 7.

Advantage of Factorial Calculation: Simple to hardcode, represents multiplication operations.

Advantage of SHA256: Represents real world problem, and could provide solution.

// Algo 1: factorial :

// Start : 1582329294493 | End : 1582329316295 | Diff : 21802 | Loop to 100000 | Print : 5.54019E555970 -> Average 2180

// Algo 2: 3 layers of tan+atan :

// Start : 1582329409365 | End : 1582329409784 | Diff : 419 | Loop to 100000 | Print : 1.2345678912605856E14 -> Average 42

// Algo 3: 5 layers of tan+atan : 5838

// Start : 1582329468536 | End : 1582329469146 | Diff : 610 | Loop to 100000 | Print : 1.2345678912605856E14 -> Average 61

// Algo 4 : SHA256 - first 2 as 0

// Start : 1582326642922 | End : 1582326642969 | Total : 47 | Average : 4

// Start : 1582326926047 | End : 1582326926083 | Total : 36 | Average : 3

// [13, 1, 4, 6, 5, 2, 1, 4, 0, 0]

// Algo 5: SHA256 - first 4 as 0

// Start : 1582326712191 | End : 1582326712607 | Total : 416 | Average : 41

// Start : 1582326879552 | End : 1582326879967 | Total : 415 | Average : 41

// [50, 100, 34, 64, 24, 13, 4, 51, 60, 15]

// Algo 6: SHA256 - first 5 as 0

// int d2\_mask = (digest[2] >>> 4);

// found = (digest[0] == 0 && digest[1] == 0 && d2\_mask == 0);

// Start : 1582326846442 | End : 1582326851975 | Total : 5533 | Average : 553

// [479, 920, 1216, 491, 126, 1086, 295, 535, 183, 202]

// Algo 7: SHA256 - first 6 as 0

// found = (digest[0] == 0 && digest[1] == 0 && digest[2] == 0);

// Start : 1582327022091 | End : 1582327119418 | Total : 97327 | Average : 9732

// [4949, 8615, 13685, 3123, 13001, 12314, 4571, 3620, 30247, 3202]

// Algo 8: SHA256 - first 7 as 0

// int d3\_mask = (digest[3] >>> 4);

// found = (digest[0] == 0 && digest[1] == 0 && digest[2] == 0 && d3\_mask == 0);

// Start : 1582327192315 | End : 1582328521928 | Total : 1329613 | Average : 132961

// [52168, 273955, 125926, 34442, 99654, 312513, 30048, 275362, 99516, 26029]