

Tensority: an ASIC-friendly Proof of Work Algorithm Based on Tensor

Bytom Foundation
Email: contact@bytom.io

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Abstract

Consensus mechanism is the core of blockchain system which ensures distributed consensus among all parties. Proof of Work (PoW) is a consensus algorithm that adopted by Bitcoin. According to PoW, more computing power means more security and robustness of the system. However, Bitcoin PoW just adopts direct hash method which is criticized for waste of resource. In this paper, we propose Tensority, a new PoW consensus algorithm, where matrix and tensor operations are introduced into the hashing process. So, miners can be used for AI hardware acceleration services, parallel computing and generating additional social benefits. In other words, Tensority acts as a bridge between Blockchain and AI. Further more, we adopt random analyse method to prove security and fairness of Tensority in theorem. Finally, we operate experiment and apply χ^2 test to show that Tensority have good random property indeed. In summary, Tensority is secure, robust and AI ASIC-chips friendly consensus algorithm which all smart devices can run.

1 Introduction

Recently, blockchain has attracted extensive attentions and is considered as the future Internet prototype for its excellent features, such as decentralization, persistency, anonymity, auditability and smart contract. Consensus mechanism is the core of blockchain system which enable consensus among distructed network even including some evil nodes who try to destroy the system. Technically, consensus mechanism is solution that solves the Byzantine generals problem[1]. Obviously, consensus mechanism is the source of security, robustness and **trust**.

Bitcoin[2] proposed by Nakamoto in 2008 is the first and most influential blockchain project. PoW, the consensus algorithm adopted in Bitcoin, is a new and incredible strategy to solve the Byzantine generals problem. In PoW, all competitive participants called miners try calculating block header hash to reach the target first by using different nonces continuously. Accordingly, PoW procedure is called mining.

As shown in Figure 1, Bitcoin miners have gone through four stages of CPU, GPU, FPGA and ASIC. In the age of CPU and GPU, the mining entry barrier is so low that even a PC or laptop with an independent graphics card can be used for mining. With emergence of FPGA and ASIC, the Moore's Law have its way in the world of Bitcoin mining. At present, the mining chips are measured at GH/S and the manufacturing process of wafer has been raised from 130nm to 14nm, which is close to the current limit of semiconductor manufacturing technology. However, the PoW mechanism is criticized as the machines could be applied to mining only, resulting in a great waste of hardware and energy.

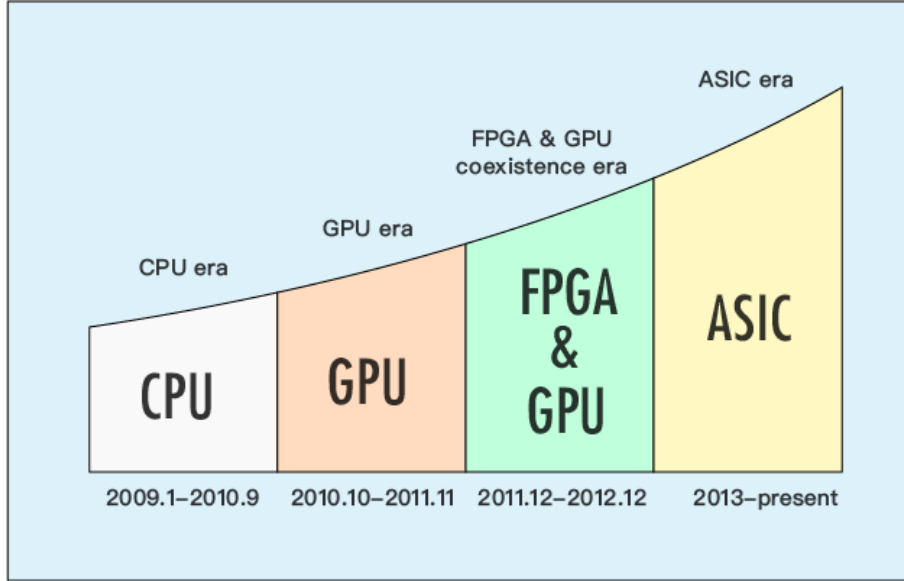


Figure 1: Four stages of mining

On the other hand, Ethereum[3], the most famous blockchain platform supporting turing-complete smart contract, adopts Ethash[4] as its consensus algorithm. For Ethash is ASIC-resistance algorithm, Ethereum network is maintained by relatively low computing power. So, it is considered less secure than Bitcoin. In addition, it is absent from rapid development of ASIC techniques which support higher computing power, specially AI ASIC chips.

Through analysis, we can find that miners could be compared to AI as both rely on underlying large-scale parallel computing. Vast majority of the deep learning algorithms can be mapped into the underlying linear algebraic operations. Linear algebraic operation has two characteristics: first Tensor's flow is very regular and expectable; second is the high density of calculation. These two features make AI deep learning particularly suitable for hardware acceleration.

In this paper, we propose Tensority, a secure, robust and AI ASIC-chips friendly PoW algorithm, that overcomes the respective shortcomings of both Bitcoin and Ethereum. In stead of direct hash in Bitcoin, Tensority introduces matrix and tensor operations in the hashing process of mining, making miners friendlier to AI ASICs than GPU and CPU. In addition, Tensority is more secure than Ethash for it attracts more computing power. Tensority make following situations possible:

1. Calculation required for blockchain consensus can also be applied to the AI hardware acceleration service, which will generate greater social benefits.
2. Mining market will stimulate the market for artificial intelligence, expanding needs for the deep learning ASIC chips, just like the boosting effect to GPU market lifted by current GPU-friendly PoW blockchain.
3. Outdated miners can be utilized for AI hardware acceleration services, saving mining costs and thus realize a win-win situation.

2 Tensority Algorithm

Tensority algorithm framework is shown as Figure 2. Tensority algorithm utilizes seed and block header hash as input and generate work correspondingly. Seed is a byte array of 32 determined by a period of blockchain history. In other word, seed can be considered as a snapshot of historical network consensus. To get a validated block, miners should keep operating Tensority with different **nonce** until matching the requirement of difficulty. There are mainly five procedures of Tensority: cache calculation, matrix construction, matrix operation, work generation and work validation. It is worth noting that **index of array and matrix mentioned in this paper begins with 1.**

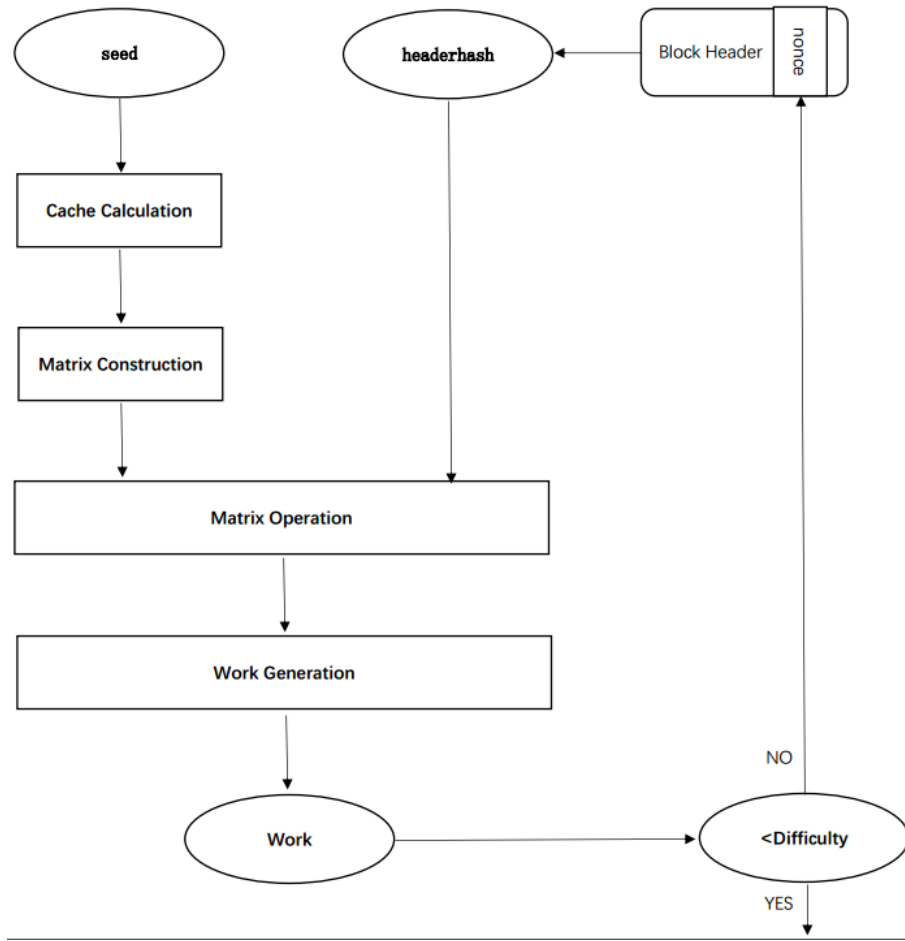


Figure 2: Framework of Tensority

2.1 Cache Calculation

Cache is generated by seed in **Algorithm 1**. Compared with block rate, seed renewal is slower. So, cache generated from seed can be reused for a period of time. Furthermore, cache is the intermediary of constructing cache matrix. The main steps are listed as follow:

1. Seed Extention

Set $seed_0$ as seed, calculate sha256 hash of $seed_0$ and then we get $seed_1$. Similarly, We can get $seed_i$ one after another by calculating sha256 hash of $seed_{i-1}$. Finally, we string $seed_0, \dots, seed_{extround}$ together and get extseed.

2. Script Extseed

We recursively call Script function to obtain the cache, an uint32 array of 32x1024x128. Script[5] is a kind of KDF algorithm mainly used as key generation method aimed at preventing low-cost password collision. It is worth to mentioned that Script is used in Litecoin since 2011.[6] So, it has been proved as a reliable seed extension algorithm.

Algorithm 1: calcSeedCache

Input: *seed* - a byte array of 32;
Output: *cache* - an uint32 array of 32x1024x128;

```
1 Initialize extround = 3; scryptround = 128;  
2 extseed = seed;  
3 tmphash = seed;  
4 for i = 1; i ≤ extround; i ++ do  
5   | tmphash = SHA256(tmphash);  
6   | extseed = Append(extseed, tmphash);  
7 end  
8 cache = ∅;  
9 tmpv = ∅;  
10 for j = 1; j ≤ scryptround; j ++ do  
11  | tmpv = Scrypt(extseed, tmpv);  
12  | cache = Append(cache, tmpv);  
13 end  
14 return cache;
```

2.2 Matrix Construction

Technical innovation of Tensority is based on tensor and matrix operations. In this procedure, we construct matrices which are ready for matrix operations in the next procedure. The main steps are listed as follow:

1. Cache Recomposition

The design of recomposition method is aimed at improving efficiency of ASCII mining machines, such as faster memory accession. Considering data alignment and memory access of miners, we design following recomposition of cache.

At the begining, we partition cache into 128 groups. Each group includes 32x1024 elements. In each group, we cluster 32 elements as a unit. So, we obtain an uint32 matrix **tmpmatrix** of 32x1024x128. The size of **recomposedmatrix** is also 32x1024x128. **Tmpmatrix** elements with odd dimension 2 index equal **recomposedmatrix** to elements with dimension2 index from 1 to 1024/2 correspondingly. Similarly, **tmpmatrix** elements with even index are corespondent to **recomposedmatrix** elements with index from 1024/2+1 to 1024.

2. Cache Matrix Construction

Spread matrix **recomposedmatrix** and set it as a int8 array of 256x256x256. Then we get a float64 array of 256x256x256 by type casting. Finally, we obtain a float64 matrix **cachematrix** of 256x256x256.

Algorithm 2: constructCacheMatrix

Input: *cache* - an uint32 array of 32x1024x128;
Output: *cachematrix* - an float64 matrix of 256x256x256

```
1 Initialize dim1 = 32; dim2 = 1024; dim3 = 128; dim = 256;  
2 tmpmatrix = Matrix(cache, dim1, dim2, dim3);  
3 recomposedmatrix = NewMatrix(dim1, dim2, dim3);  
4 cachematrix = NewMatrix(dim, dim, dim);  
5 recomposedmatrix[:,1 : dim2/2][:] = tmpmatrix[:,all odd index][:] ;  
6 recomposedmatrix[:,dim2/2+1 : dim2][:] = tmpmatrix[:,all even index][:];  
7 cachematrix = Float64(Matrix(Int8Array(recomposedmatrix), dim, dim, dim));  
8 return cachematrix;
```

2.3 Matrix Operation

The rate of matrix operation mainly depends on the computing power of miner. In addition, float64 matrix multiplication instead of integer multiplication is adopted because we should enable miners supporting AI algorithms which mainly run under float type environment. The procedure of matrix

operation (**Algorithm 3**) utilizes block header hash **headerhash** as a index to slice **cachematrix**, an float64 matrix of 256x256x256. After calculating matrix multiplication with slices iteratively for several round, we finally obtain the work matrix **workmatrix**. Note that there are total 256 rounds of multiplication between matrices of 256x256. The main steps are listed as follow:

1. Generate Index of Matrix Slices

We divide block header hash into 4 group first. Then we operate SHA256 to each group and obtain corresponding sequence of 32 bytes. Each byte in sequence is casted to integer as the index of the matrix slice. Obviously, 4x32 matrix slices are generated during this procedure.

2. Matrix Calculation

We can obtain the corresponding 256x256 **cachematrix** matrix slice **mb** according to the slice index. Matrix **mc** is the result of multiplication of **ma** and mb^T . Note that **ma** is initialized to identity matrix in the first round. Then we cast elements of **mc** to int32.

Here we define a operation called **Compress32to8**. It converts the data type int32 of data $b = (b_1, b_2, b_3, b_4)$ (big endian) into uint8 via the formula $(b_3 + b_4) \bmod 2^8$. Compress32to8 is introduced to ensure better randomness of multiplication result.

After that, we set **mc** elements as their corresponding Compress32to8 results. Then we cast **mc** elements to float64 and assign the result to **ma** until sequence run out eventually. Previous steps should be iterated for 2 times.

Finally, we utilize **ma** to renew **hashmatrix**. We will get Integer32 sum of **ma** and **hashmatrix**. Renew **hashmatrix** element with low 8 bits value in that position and cast the element to float64.

Algorithm 3: constructHashMatrix

Input: *cachematrix* - a float64 array of 256x256x256; *headerhash* - a byte array of 32

Output: *hashmatrix* - an uint8 matrix of 256x256

```

1 Initialize drawround = 4; mulround = 2; dim = 256;
2 hashmatrix = Matrix(dim, dim);
3 drawmatrix = Matrix(headerhash, drawround, sizeof(headerhash)/drawround);
4 for i = 1; i ≤ drawround; i ++ do
5     ma = I;
6     mc = Matrix(dim, dim);
7     sequence = SHA256(drawmatrix[i]);
8     for j = 1; j ≤ mulround; j ++ do
9         for k = 1; k ≤ sizeof(sequence); k ++ do
10            index = Uint8(sequence[k])+1;
11            mb = srcmatrix[index][:][:];
12            mc = ma x mbT;
13            for element ∈ mc do
14                element = Float64(Compress32to8(Int32(element)));
15            end
16            ma = mc
17        end
18    end
19    for row = 1; row ≤ dim; row ++ do
20        for col = 1; col ≤ dim; col ++ do
21            i32vhashmatrix = Int32(hashmatrix[row][col]);
22            i32vma := Int32(ma[row][col]);
23            i8v = Int8(i32vhashmatrix+i32vma);
24            hashmatrix[row][col] = Float64(i8v);
25        end
26    end
27 end
28 return hashmatrix;

```

2.4 Work Generation

Work generation algorithm use **hashmatrix** as input and generation 32 bytes hash representing work. The key of that procedure is improving computational efficiency under the premise of randomness. So, we utilize FNV[7] enabling faster hash to hash matrix instead of SH2 or SH3 because it is a non-cryptographic hash algorithm. FNV has also been adopted in Ethereum Ethash for a while. So, its reliability has been proved. In addition, We choose 0x01000193 as parameter *FNV_prime*. [8] Finally, we apply SHA256 to the result of FNV to assure solid randomness.

1. Resize Matrix **Hashmatrix**

Hashmatrix is an uint8 matrix of 256x256. For each row, extract elements with same remainder from dividing 64 by the position as a group. Combine elements in each group into an uint32 element. Then we get an uint32 matrix of 256x64 called **mat32**.

2. Binary Forwarded FNV

Binary Forwarded FNV (Algorithm 4) is essentially a method to hash matrix. First, we initiate n to \dim_1 of **mat32**. For row 1 to row n , operate FNV function to two element in same column with same remainder from dividing $n/2$ by the row position and set that element with lower row index as FNV result. Then we half n and execute that step unit n equals to 1. Finally, we take the first row of **mat32** and convert it to byte array. After operate SHA256 to that byte array, we obtain **work**.

Algorithm 4: hashMatrix

```
Input: mat32 - an uint32 matrix of 256x64;  
Output: hash - an byte array of 32  
1 Initialize dim1 = 256; dim2 = 64;  
2 for  $k = \dim_1/2; k \geq 1; k = k/2$  do  
3   for  $i = 1; i \leq k; i++$  do  
4     for  $j = 1; j \leq \dim_2; j++$  do  
5        $\text{mat32}[i][j] = \text{FNV}(\text{mat32}[i][j], \text{mat32}[i+k][j])$   
6     end  
7   end  
8 end  
9  $\text{hash} = \text{SHA256}(\text{ToByteArray}(\text{mat32}[0][:]));$   
10 return hash;
```

2.5 Work Validation

In this procedure, we compare work value with block difficulty. If the work have lower value, it can be seen as a validated work and miners will broadcast that block before receiving a validated block from others. Otherwise, miners will keep changing nonce value to execute Tensority before receiving a validated block.

3 Random Analysis of Tensority

To proof the security of Tensority, we adopt random analysis method. The idea is intuitive. Suppose that we have random matrixs M1 and M2. For the basic operation of Tensority is matrix mutliplication, we just need to prove that M3 which equals to $M_2 \times M_3$ also keeps randomness. In other words, M3 also obeys uniform distribution respresenting M3 owns max uncertainty according information theory. nonuniform distribution is not secure that attacker can analyse the distribution and utilize points with higher probability.

3.1 Symbol Definition

A_0, A_1, \dots, A_{256}	Fill random sequence into those matrixes, per one boasts size of 512*512
H	Function of SHA256 algorithm
$BLOCK_n$	Block without nonce
B_i	ith Byte
n	Nonce
\parallel	Two adjoined data concatenated together
MAC	A message authentication code of SHA256
\odot	The operator defined in our Tensority algorithm
$+$	Addition
$*$	Multiplication
T	The target specified to find a valid block
ω	Sample space of variable X
$\tilde{\omega}$	Sample space of variable Z
\mathbb{N}^*	Nonzero nature integer
df	Block without nonce

3.2 Mathematical Preliminaries

Theorem 1 (Central Limit Theorem) Let X_1, X_2, \dots, X_n be n independent identically distributed random variables boating finite mean $E(X_k) = u$ and finite variance $D(X_k) = \sigma^2 > 0 (k = 1, 2, 3, \dots)$, unit-variance random defined by:

$$Y_n = \frac{\sum_{k=1}^n X_k - E(\sum_{k=1}^n X_k)}{\sqrt{D(\sum_{k=1}^n X_k)}} = \frac{\sum_{k=1}^n X_k - nu}{\sqrt{n}\sigma} \quad (3.1)$$

then, for x in sample space the cumulative distribution function $F_n(x)$ satisfies

$$\lim_{n \rightarrow \infty} F_n(x) = \lim_{n \rightarrow \infty} P\left\{\frac{\sum_{k=1}^n X_k - nu}{\sqrt{n}\sigma} \leq x\right\} = \int_{-\infty}^x \frac{1}{\sqrt{2\pi}} e^{-\frac{t^2}{2}} dt = \phi(x) \quad (3.2)$$

Definition 1 (compress32to8) Convert the data type int32 of data $b = (B_0 B_1 B_2 B_3)$ ((big endian)) into int8 via the formula

$$D = (B_2 + B_3) \bmod 2^8 \quad (3.3)$$

Definition 2 Given two matrixes $A = (a_{ij})_{m \times m}$ and $B = (b_{ij})_m$ with data of data type int8, the operator \odot of matrix is defined as follows

$$C = A \odot B \quad (3.4)$$

where, per c_{ij} in matrix C satisfies $c_{ij} = \text{compress32to8}(\sum_{k=1}^m a_{ik} b_{kj})$.

Definition 3 The entropy $H(x)$ of discrete random variable X with probability distribution $p(x)$ is defined as

$$H(X) = - \sum_{x \in X} p(x) \log_2 p(x) \quad (3.5)$$

Theorem 2 (binary entropy function) Given a random bit b with 0, 1, the entropy of it is defined as

$$H(b) = -p \log_2 p - (1 - p) \log_2 (1 - p) \quad (3.6)$$

Note that the b has max-entropy as $p = \frac{1}{2}$.

Theorem 3 Given any bit sequence X with length of n , it satisfies

$$0 \leq H(X) \leq \log_2 n \quad (3.7)$$

,while the sample $x \in X$ with $p(x) = \frac{1}{2^n}$, the X has max-entropy.

3.3 Algorithm Proposed

1. Fill random sequence into a series of matrixes A_0, A_1, \dots, A_{256} with size of 512×512 ,
2. For a new block $BLOCK_{\underline{n}}$ without nonce, select a nonce n to calculate $MAC = H(BLOCK_{\underline{n}} || n)$, then slice the bit sequence MAC owing 256 bits into 32 bytes and convert per byte to data of data type Unint8, x_0, x_1, \dots, x_{31} ; finally, evaluate $k_i = x_i \bmod 256$, ($0 \leq i \leq 31$).
3. Evaluate $M = A_{k_{31}} \odot \dots \odot A_{k_1} \odot A_{k_0} \odot A_{k_{31}} \odot \dots \odot A_{k_1} \odot A_{k_0}$, aggregately operating 64 times left multiplication.
4. Convert M from Matrix to sequence m , and then check $H(m) \leq T$, if $H(m) \leq T$ is true, the algorithm ends; otherwise, returns to step 2.

3.4 Random Proof

In cryptography and information theory, the random of bit sequence relies on values of entropy. According to **Theorem 2** and 3, when a random bit sequence X satisfies a discrete uniform distribution, it has the best indeterministic property - a best random.

In our algorithm, given a random variable X of data type int8 is constructed by 8 random bits as

$$X = b_0b_1b_2b_3b_4b_5b_6b_7 \quad (3.8)$$

where, the probability distribution of bit b_i ($0 \leq i \leq 7$) satisfies

$b_i = k$	0	1
$P\{b_i = k\}$	0.5	0.5

Note that the per bit variable is mutual independence, so that the value x of data type int8 has the probability

$$P(X = x) = 0.5^8 \quad (3.9)$$

Based on structure of data type int8, the random variable X has sample space $\Omega = \{-128, -127, \dots, 126, 127\}$. Each outcome x in the sample space posses $P\{X = x\} = 0.0390625$, according to evaluate formula 3.9.

To prove random of the Tensority algorithm, We need to prove that each random variable m in matrix M has same probability distribution with variable X , obeying discrete uniform distribution.

Proof. Given two discrete independent random variables X and Y with sample space Ω in which sample data has data type int8. To evaluate a new random variable $Z = XY$, the formula of probability is designated as

$$P\{Z = z\} = \sum_{x \in \Omega} p(x)p\left(\frac{z}{x}\right) = \sum_{x \in \Omega} \frac{1}{2^8} * \frac{1}{2^8} = \sum_{x \in \Omega} \frac{1}{2^{16}} \quad (3.10)$$

Via evaluating formula 3.10 by computer program, the probability distribution of samples of Z is showed in Figure 3, and the data of probability detailed in **Appendix 1**.

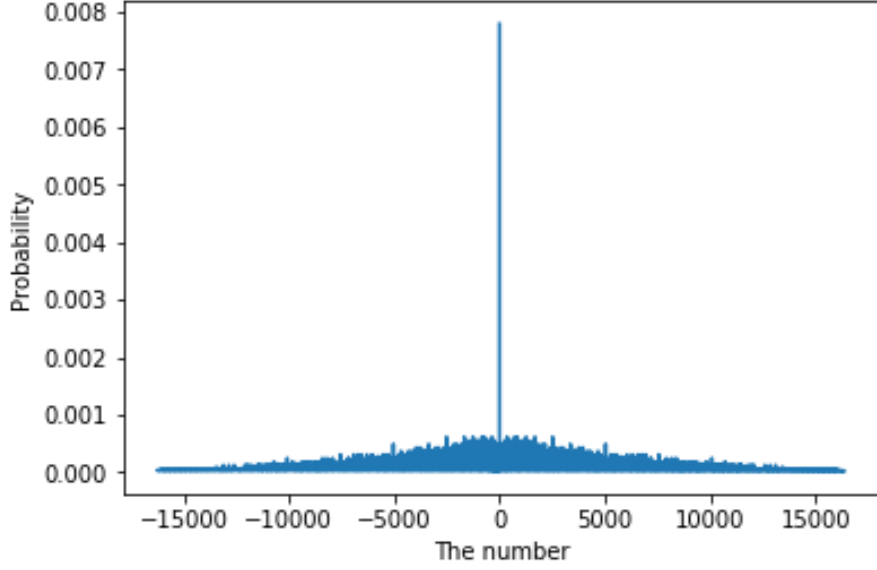


Figure 3: Distribution of Samples of Z

Theorem 4 Given $2k$ ($k \geq 1$) random variables X_1, X_2, \dots, X_{2k} , the probability distribution of each X_i , ($1 \leq i \leq 2k$) is same as the variable Z . For the random variable $U = \text{compress32to8}(\sum_{k=1}^{2k} X_i)$, the variable U converges discrete uniform distribution if and only if k converges infinite.

Proof.

a. For $2k=2$, the random variable U satisfies $U = \text{compress32to8}(Z_1 + Z_2)$, and the probability formula of it can be defined as

$$P\{U = u\} = \sum_{u=\text{compress32to8}(\tilde{u})} \sum_{z \in \tilde{\Omega}} P\{Z_2 = \tilde{u} - z\} P\{Z_1 = z\} \quad (3.11)$$

Via evaluate the formula 3.11, the probability distribution of U is detailed from Figure 4 , probability data in textbfAppendix 2:

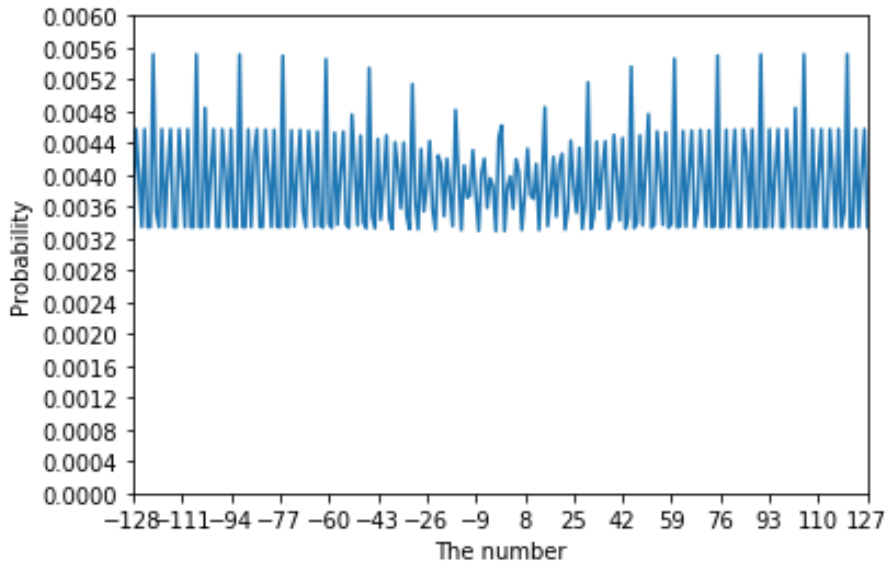


Figure 4: Distribution of U ($2k=2$)

b. For $2k=4$, the random variable U satisfies $U = \text{compress32to8}(Z_1 + Z_2 + Z_3 + Z_4)$, and the probability formula of it can be defined as

$$P\{\tilde{U} = \tilde{u}\} = \sum_{z_1 \in \Omega} \sum_{z_2 \in \Omega} \sum_{z_3 \in \Omega} P\{Z_1 = z_1\}P\{Z_2 = z_2\}P\{Z_3 = z_3\}P\{Z_4 = \tilde{u} - z_1 - z_2 - z_3\}$$

$$P\{U = u\} = \sum_{u = \text{compress32to8}(\tilde{u})} P\{\tilde{U} = \tilde{u}\} \quad (3.12)$$

Via evaluating the formula 3.12, the probability distribution of U is detailed from Figure 5 , probability data in **Appendix 3**:

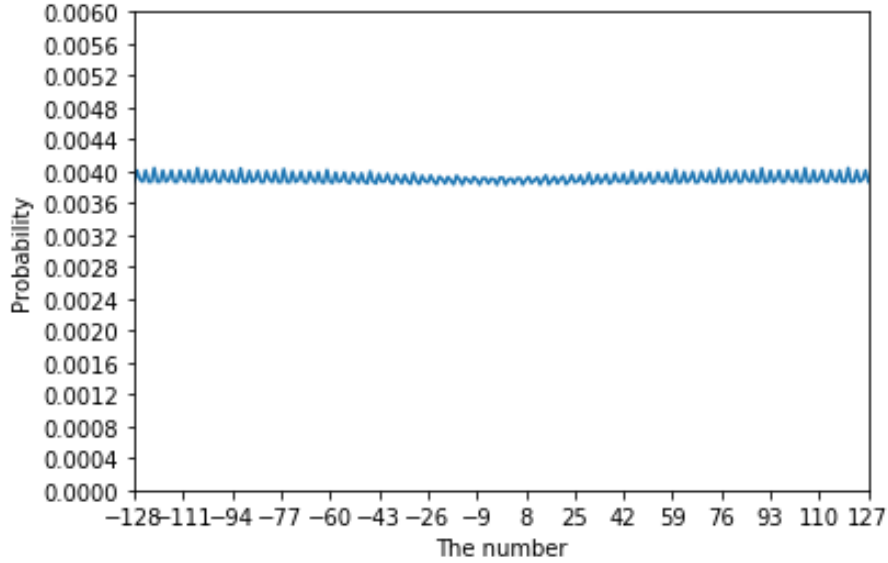


Figure 5: Probability Distribution of U ($2k=4$)

Note, while $k > 4$, the formula to evaluate probability of random variable is too large, so that we will not list anymore.

c. For $2k=8$, the random variable U satisfies that $U = \text{compress32to8}(\sum_{i=1}^8 Z_i)$. Via evaluating of probability, we can obtain the probability distribution as Figure 6 showing, and probability data in **Appendix 4**.

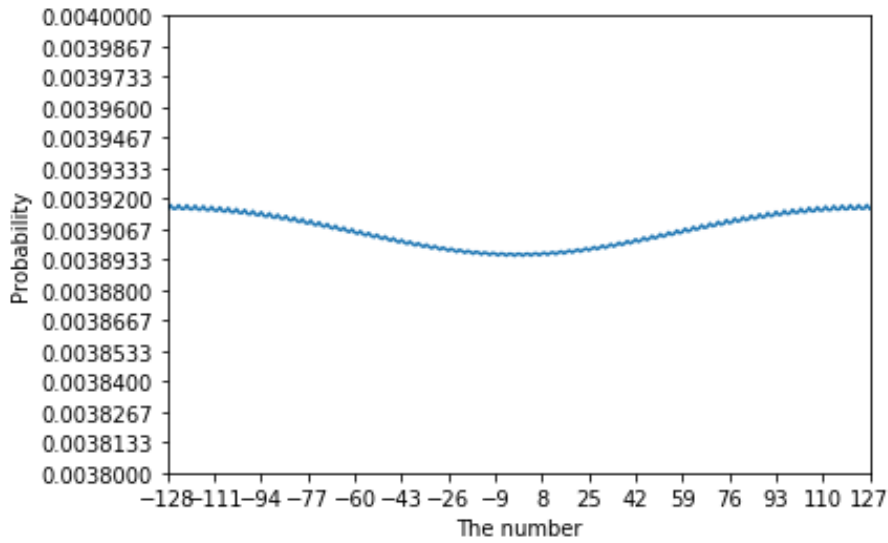


Figure 6: Probability Distribution of U ($2k=8$)

d. For $2k=16$, the random variable U satisfies that $U = \text{compress32to8}(\sum_{i=1}^{16} Z_i)$. Via evaluating of probability, we can obtain the probability distribution as Figure 7 showing, and probability data in Appendix5.

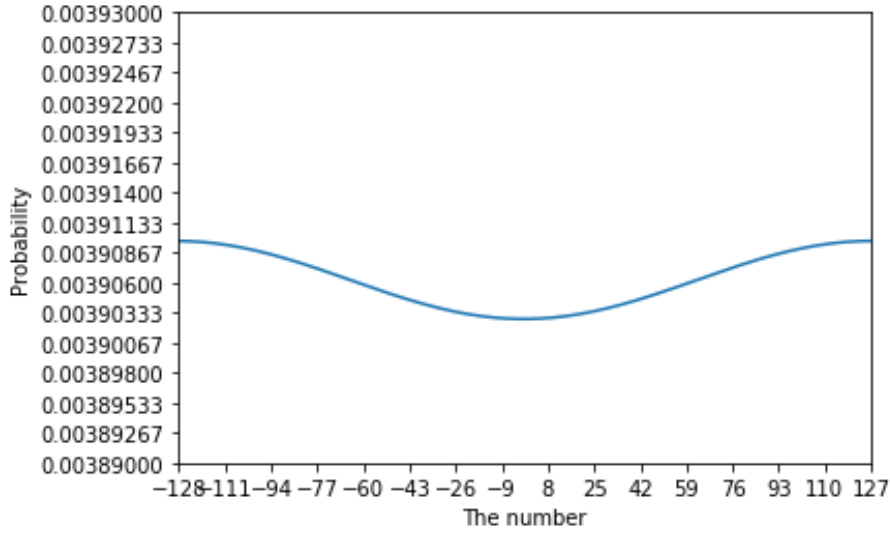


Figure 7: Probability Distribution of U ($2k=16$)

e. For $2k=32$, the random variable U satisfies that $U = \text{compress32to8}(\sum_{i=1}^{32} Z_i)$; Via evaluating of probability we obtain the probability distribution as Figure 8 showing, and probability data in Appendix6.

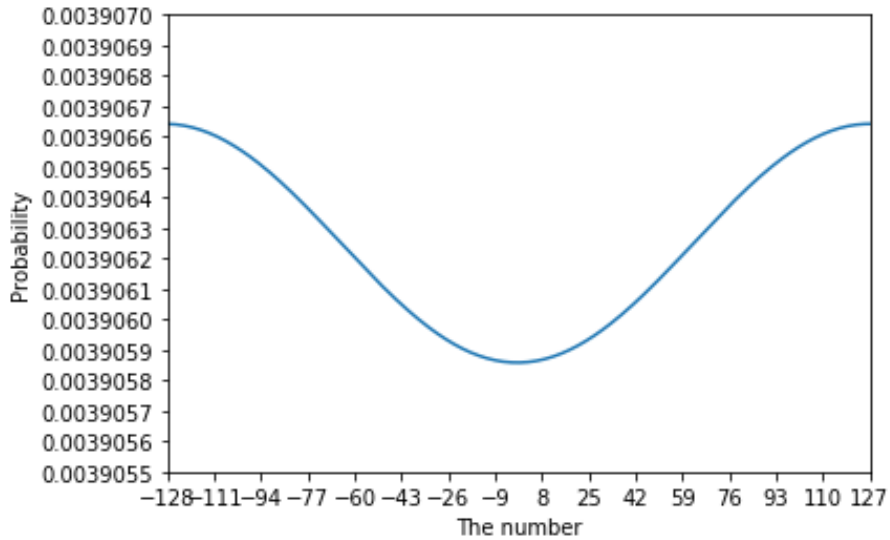


Figure 8: Probability Distribution of U ($2k=32$)

f. For $2k=64$, the random variable U satisfies that $U = \text{compress32to8}(\sum_{i=1}^{64} Z_i)$. Via evaluating of probability, we obtain the probability distribution as Figure 9 showing, and probability data in Appendix7.

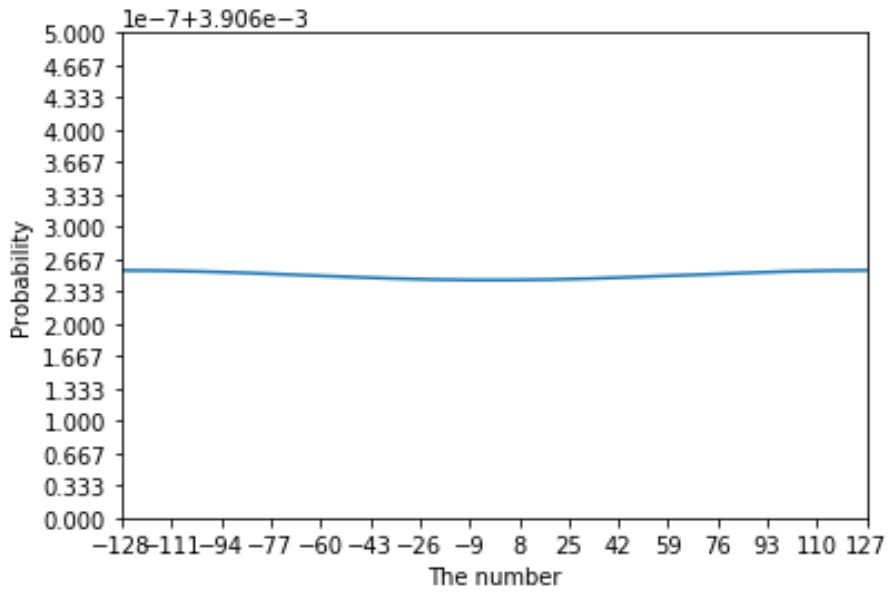


Figure 9: Probability Distribution of U (2k=64)

g. Given $2k=128$, the random variable U satisfies that $U = \text{compress32to8}(\sum_{i=1}^{128} Z_i)$. Via evaluating of probability, we obtain the probability distribution as Figure 10 showing, and probability data in **Appendix 8**.

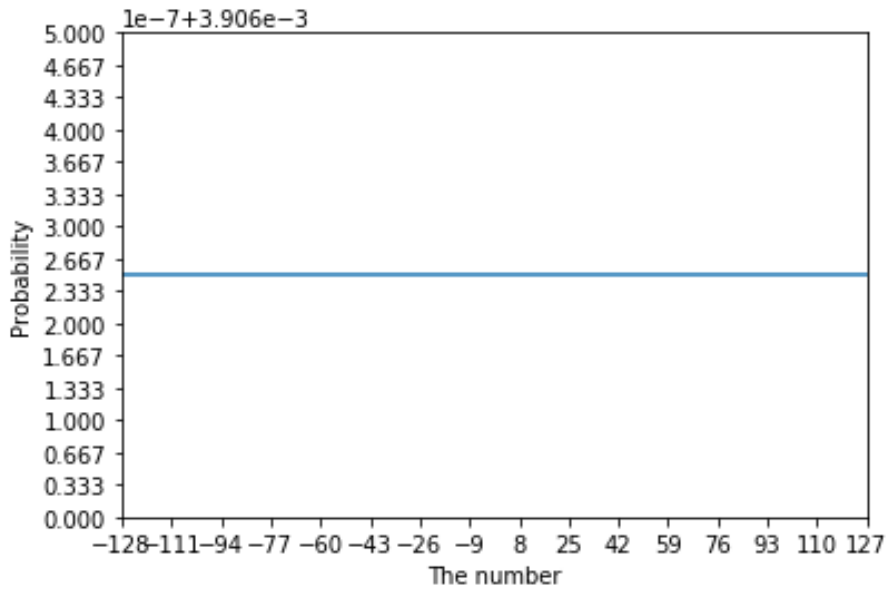


Figure 10: Probability Distribution of U (2k=128)

h. For $2k=256$, the random variable U satisfies that $U = \text{compress32to8}(\sum_{i=1}^{256} Z_i)$. Via evaluating of probability, we obtain the probability distribution as Figure 11 showing, and probability data in **Appendix 9**.

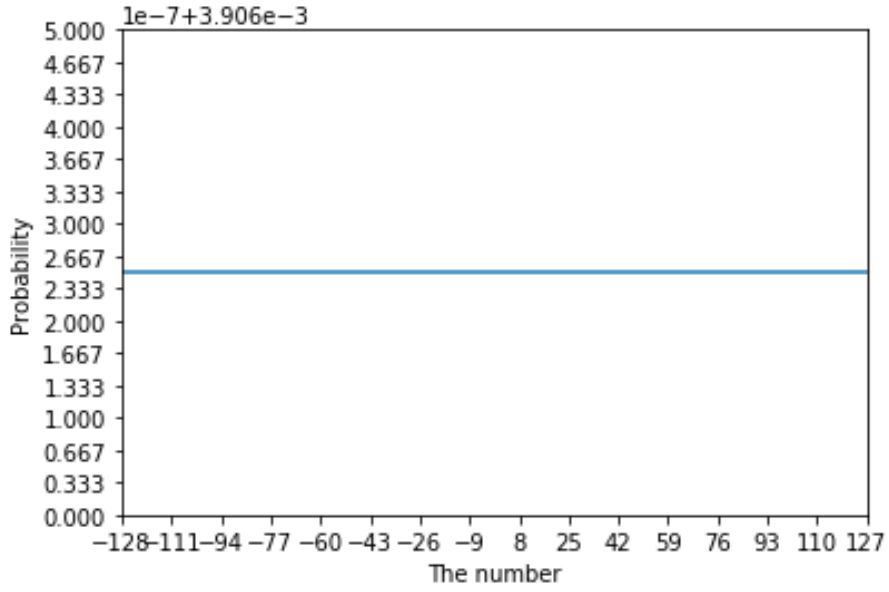


Figure 11: Probability Distribution of U (2k=256)

i. Give $2k=512$, the random variable U satisfies that $U = \text{compress32to8}(\sum_{i=1}^{512} Z_i)$, Via evaluating of probability we obtain the probability distribution as Figure 12 showing, and probability data in **Appendix 10**.

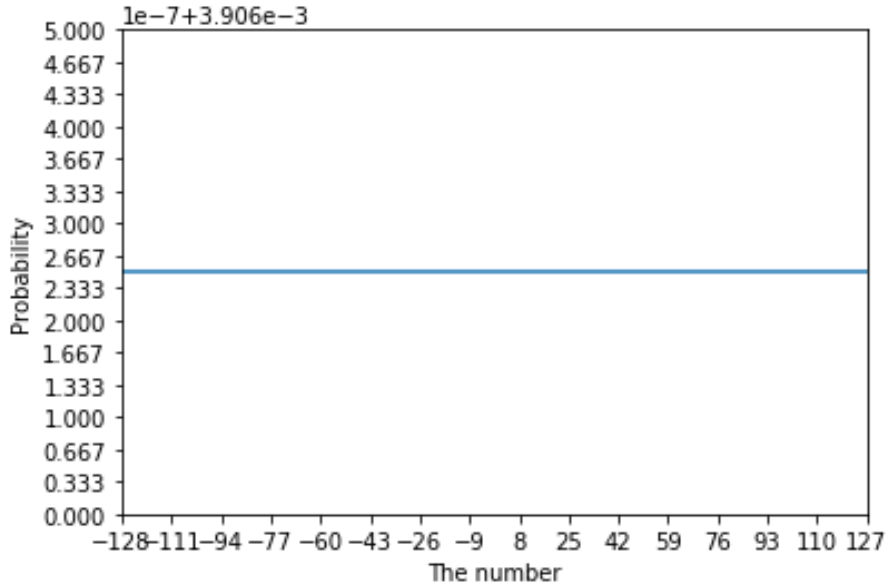


Figure 12: Probability Distribution of U (2k=512)

$\forall \epsilon > 0, \exists N \odot N$, when $k > N$, according to central limit theorem in **Theorem 1** describing, the independent random variable series Z_1, Z_2, \dots, Z_{2k} satisfy

$$|P\{\frac{\sum_{i=1}^{2k} Z_i - 2ku}{\sqrt{2k\sigma}} \leq x\} - \phi(x)| < \epsilon \quad (3.13)$$

,so that the probability function of random variable U satisfies

$$|P\{\text{compress32to8}(\sum_{i=1}^{2k} Z_i) \leq x\} - P\{X \leq x\}| < \epsilon \quad (3.14)$$

Thus, for $k \rightarrow \infty$, the unit-variance random $\frac{\sum_{i=1}^{2k} Z_i - 2ku}{\sqrt{2k\sigma}}$ obeys normal distribution, so that $\lim_{k \rightarrow \infty} \text{compress32to8}(\sum_{i=1}^{512} Z_i)$ obeys discrete uniform distribution, a distribution same as random variable X .

Theorem 5 Suppose random Matrixes A and B in which the data obeys discrete uniform distribution and matrix $C = A \odot B$, the elementary in Matrix C obeys discrete uniform distribution.

Proof. In process of proving **Theorem 4**, for $k \geq 64$, via rounding probability of outcomes u to 8 decimal places, we find that the probability of each u in the variable U satisfies

$$P\{U = u\} = 0.00390625 \quad (3.15)$$

Where u is integer in range from -128 to 127, we can get the distribution of U is same as random variable X .

For random Matrix A and Matrix B with size of 512*512 in which the elementary boasts data type of int8, the size of two matrixes is greater than 128. Via specified operator in our Tensority algorithm $C = A \odot B$, each elementary c_{ij} in Matrix C satisfies

$$c_{ij} = \text{compress32to8}\left(\sum_{k=1}^{512} a_{ik} b_{kj}\right) \quad (3.16)$$

according to **Theorem 4**, we can see that the c_{ij} obeys discrete uniform distribution.

Theorem 6 The result Matrix M obeys discrete uniform distribution.

Proof. In our Tensority algorithm, the step of filling random sequence into the series of matrix A_0, A_1, \dots, A_{256} , and then selecting $R_0, R_1, R_2, \dots, R_{31}$ from A_0, A_1, \dots, A_{256} , is to construct 32 random matrixes $R_0, R_1, R_2, \dots, R_{31}$. Next, the algorithm evaluates result Matrix M via following formula

$$M = R_{31} \odot \dots \odot R_1 \odot R_0 \odot R_{31} \odot \dots \odot R_1 \odot R_0$$

According **Theorem 5**, any elementary in the result matrix of any $R_i \odot R_j$ obeys discrete uniform distribution, so that arbitrary elementary in matrix M obeys discrete uniform distribution.

Hence, based on **Theorem 3** and proof of **Theorem 4, 5, and 6**, we prove our Tensority algorithm boasts max-entropy, and satisfies the best random required.

4 Experiment

To show that our Tensority algorithm boasts good random property in the program executing, we execute the Tensority algorithm 100 times and take sample data from result Matrix M . Then, we randomly collect 6 random variables $Y_1, Y_2, Y_3, Y_4, Y_5, Y_6$ to test by χ^2 test.

4.1 Model Building

$H_0: Y_i (0 \leq i \leq 9)$ obeys discrete uniform distribution

Assuming Y_i satisfies

$$P\{Y_i = j\} = 0.390625$$

where, j is a sample in Y_i , an integer of data type int8.

As data in appendix 11 shows, we collect $n = 100$ sample data, evaluating value of χ^2 according to formula

$$\chi^2 = \sum_{k=1}^{256} \frac{n}{p_k} \left(\frac{f_i}{n} - p_i \right)$$

At the level of $\alpha = 0.05$, we evaluate $\chi^2_\alpha(df) = 299.53798178135855$. if and only if $\chi^2 \geq \chi^2_\alpha(df)$, we reject H_0 ; otherwise, accept H_0

4.2 Sample Testing

According to the sample in Appendix11,the result of χ^2 test in Table 1 is evaluated by SPSS software.

Table 1: Sample Testing

Variable	Y_1	Y_2	Y_3	Y_4	Y_5	Y_6
χ^2	16.440	12.560	14.240	10.500	9.800	12.880
df	81	83	83	84	89	82
Asymptotic significance	1.000	1.000	1.000	1.000	1.000	1.000

Via result of Sample Testing in Table 1,we can see that χ^2 of sample of random variables selected Y_i in result matrix M is less than $\chi^2_{\alpha}(df)$, so that we can accept assumption H_0 , and this confirming that our algorithm can keep good random property in executing.

5 Conclusion and Prospect

The paper proposes Tensority algorithm for BTM which introduces matrix and tensor operations to PoW instead of direct hash in Bitcoin. After random proof and experiment, we can discover that the target Matrix of Tensority constructed obeys discrete uniform distribution in theory, a distribution with good random property. During the Tensority algorithm execution,sample data can accept the assumption of H_0 according to the result of χ^2 test, in other words, the variables tested obeys discrete uniform distribution.

It's important to note that for a PoW algorithm, fast validation is another important aspect in addition to hard validated work generation. In this paper, we adopt 256 round matrix multiplication between float64 matrices of 256 x 256. It needs relatively reasonable time to verify the block. To further optimize validation time, there are different method in terms of different platform. SIMD[9], a class of parallel computers in Flynn's taxonomy, is an optional optimization technique. Different platforms have different SIMD design framework. Intel x86 platform provides MMX[10], SSE[11] and AVX[12] to support SIMD. AMD also supports related instructions such as 3DNow![13] and so on. For RSIC architecture, ARM proposed NEON[14] instructions supporting vector operations of many types and optimize parallel matrix multiplication. In summary, multiplication round and matrix dimension should be adjusted for different performance needs and scenes.

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A Appendix

In this section, all data about random proof of Tensority is listed. From Appendix 1 to Appendix 10 recording the probability data in proof process, the format of data is that Sample:Probability. In evaluating probability process, the sum of total probability of Sample in Matrix of which size is greater than 64 is less than 1, due to precision of machine being limited. The last Appendix 11 records sample data for χ^2 test.

A.1 Appendix 1

0:0.00779724121094	1:3.0517578125e-05	2:6.103515625e-05
3:6.103515625e-05	4:9.1552734375e-05	5:6.103515625e-05
6:0.0001220703125	7:6.103515625e-05	8:0.0001220703125
9:9.1552734375e-05	10:0.0001220703125	11:6.103515625e-05
12:0.00018310546875	13:6.103515625e-05	14:0.0001220703125
15:0.0001220703125	16:0.000152587890625	17:6.103515625e-05
18:0.00018310546875	19:6.103515625e-05	20:0.00018310546875
21:0.0001220703125	22:0.0001220703125	23:6.103515625e-05
24:0.000244140625	25:9.1552734375e-05	26:0.0001220703125
27:0.0001220703125	28:0.00018310546875	29:6.103515625e-05
30:0.000244140625	31:6.103515625e-05	32:0.00018310546875
33:0.0001220703125	34:0.0001220703125	35:0.0001220703125
36:0.000274658203125	37:6.103515625e-05	38:0.0001220703125
39:0.0001220703125	40:0.000244140625	41:6.103515625e-05
42:0.000244140625	43:6.103515625e-05	44:0.00018310546875
45:0.00018310546875	46:0.0001220703125	47:6.103515625e-05
48:0.00030517578125	49:9.1552734375e-05	50:0.00018310546875
51:0.0001220703125	52:0.00018310546875	53:6.103515625e-05
54:0.000244140625	55:0.0001220703125	56:0.000244140625
57:0.0001220703125	58:0.0001220703125	59:6.103515625e-05
60:0.0003662109375	61:6.103515625e-05	62:0.0001220703125
63:0.00018310546875	64:0.000213623046875	65:0.0001220703125
66:0.000244140625	67:6.103515625e-05	68:0.00018310546875
69:0.0001220703125	70:0.000244140625	71:6.103515625e-05
72:0.0003662109375	73:6.103515625e-05	74:0.0001220703125
75:0.00018310546875	76:0.00018310546875	77:0.0001220703125
78:0.000244140625	79:6.103515625e-05	80:0.00030517578125
81:0.000152587890625	82:0.0001220703125	83:6.103515625e-05
84:0.0003662109375	85:0.0001220703125	86:0.0001220703125
87:0.0001220703125	88:0.000244140625	89:6.103515625e-05
90:0.0003662109375	91:0.0001220703125	92:0.00018310546875
93:0.0001220703125	94:0.0001220703125	95:0.0001220703125
96:0.0003662109375	97:6.103515625e-05	98:0.00018310546875
99:0.00018310546875	100:0.000274658203125	101:6.103515625e-05
102:0.000244140625	103:6.103515625e-05	104:0.000244140625
105:0.000244140625	106:0.0001220703125	107:6.103515625e-05
108:0.0003662109375	109:6.103515625e-05	110:0.000244140625
111:0.0001220703125	112:0.00030517578125	113:6.103515625e-05
114:0.000244140625	115:0.0001220703125	116:0.00018310546875
117:0.00018310546875	118:0.0001220703125	119:0.0001220703125
120:0.00048828125	121:9.1552734375e-05	122:0.0001220703125
123:0.0001220703125	124:0.00018310546875	125:0.0001220703125
126:0.0003662109375	127:6.103515625e-05	128:0.000213623046875
129:6.103515625e-05	130:0.00018310546875	132:0.00030517578125

133:6.103515625e-05	134:6.103515625e-05	135:0.00018310546875
136:0.00018310546875	138:0.00018310546875	140:0.00030517578125
141:6.103515625e-05	142:6.103515625e-05	143:6.103515625e-05
144:0.000396728515625	145:6.103515625e-05	146:6.103515625e-05
147:0.0001220703125	148:0.0001220703125	150:0.00030517578125
152:0.00018310546875	153:0.0001220703125	154:0.00018310546875
155:6.103515625e-05	156:0.00030517578125	158:6.103515625e-05
159:6.103515625e-05	160:0.00030517578125	161:6.103515625e-05
162:0.000244140625	164:0.0001220703125	165:0.00018310546875
166:6.103515625e-05	168:0.00042724609375	169:3.0517578125e-05
170:0.00018310546875	171:0.0001220703125	172:0.0001220703125
174:0.00018310546875	175:0.0001220703125	176:0.000244140625
177:6.103515625e-05	178:6.103515625e-05	180:0.00048828125
182:0.00018310546875	183:6.103515625e-05	184:0.00018310546875
185:6.103515625e-05	186:0.00018310546875	187:6.103515625e-05
188:0.0001220703125	189:0.00018310546875	190:0.00018310546875
192:0.0003662109375	194:6.103515625e-05	195:0.00018310546875
196:0.000213623046875	198:0.00030517578125	200:0.00030517578125
201:6.103515625e-05	202:6.103515625e-05	203:6.103515625e-05
204:0.00030517578125	205:6.103515625e-05	206:6.103515625e-05
207:0.0001220703125	208:0.000244140625	209:6.103515625e-05
210:0.00042724609375	212:0.0001220703125	213:6.103515625e-05
214:6.103515625e-05	215:6.103515625e-05	216:0.00042724609375
217:6.103515625e-05	218:6.103515625e-05	219:6.103515625e-05
220:0.00030517578125	221:6.103515625e-05	222:0.00018310546875
224:0.00030517578125	225:0.000213623046875	226:6.103515625e-05
228:0.00030517578125	230:0.00018310546875	231:0.00018310546875
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240:0.00054931640625	242:0.0001220703125	243:0.0001220703125
244:0.0001220703125	245:0.0001220703125	246:0.00018310546875
247:6.103515625e-05	248:0.00018310546875	249:6.103515625e-05
250:0.00018310546875	252:0.00048828125	253:6.103515625e-05
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258:0.0001220703125	259:6.103515625e-05	260:0.000244140625
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288:0.00042724609375	289:3.0517578125e-05	290:0.0001220703125
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303:6.103515625e-05	304:0.00018310546875	305:6.103515625e-05
306:0.000244140625	308:0.000244140625	309:6.103515625e-05
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335:6.103515625e-05	336:0.00048828125	338:6.103515625e-05
339:6.103515625e-05	340:0.000244140625	341:6.103515625e-05
342:0.000244140625	343:6.103515625e-05	344:0.0001220703125
345:0.00018310546875	348:0.000244140625	350:0.000244140625
351:0.00018310546875	352:0.000244140625	354:0.0001220703125
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476:0.000244140625	477:6.103515625e-05	480:0.00054931640625
481:6.103515625e-05	483:0.0001220703125	484:0.000152587890625
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497:6.103515625e-05	498:6.103515625e-05	500:0.000244140625
504:0.00054931640625	505:6.103515625e-05	506:0.0001220703125
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535:6.103515625e-05	536:6.103515625e-05	539:0.0001220703125
540:0.00048828125	544:0.00018310546875	545:6.103515625e-05
546:0.00030517578125	549:6.103515625e-05	550:0.000244140625
551:6.103515625e-05	552:0.000244140625	553:6.103515625e-05

555:0.0001220703125	558:0.00018310546875	559:6.103515625e-05
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565:6.103515625e-05	567:0.00018310546875	568:6.103515625e-05
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580:0.00018310546875	581:6.103515625e-05	582:6.103515625e-05
583:6.103515625e-05	584:6.103515625e-05	585:0.000244140625
588:0.00030517578125	589:6.103515625e-05	590:0.0001220703125
592:0.0001220703125	594:0.00030517578125	595:0.00018310546875
598:0.0001220703125	600:0.00048828125	602:0.0001220703125
603:6.103515625e-05	605:0.0001220703125	606:6.103515625e-05
608:0.00018310546875	609:0.0001220703125	610:0.0001220703125
611:6.103515625e-05	612:0.00030517578125	615:0.0001220703125
616:0.00030517578125	618:6.103515625e-05	620:0.00018310546875
621:0.0001220703125	623:6.103515625e-05	624:0.0003662109375
625:9.1552734375e-05	627:0.0001220703125	629:6.103515625e-05
630:0.00054931640625	632:6.103515625e-05	635:6.103515625e-05
636:0.0001220703125	637:0.0001220703125	638:0.0001220703125
639:6.103515625e-05	640:0.000274658203125	642:6.103515625e-05
644:0.00018310546875	645:6.103515625e-05	646:0.0001220703125
648:0.0003662109375	649:6.103515625e-05	650:0.00018310546875
651:0.0001220703125	654:6.103515625e-05	656:0.0001220703125
657:6.103515625e-05	658:0.0001220703125	660:0.00042724609375
663:0.0001220703125	664:6.103515625e-05	665:0.0001220703125
666:0.00018310546875	667:6.103515625e-05	670:6.103515625e-05
671:6.103515625e-05	672:0.00048828125	675:0.00018310546875
676:9.1552734375e-05	678:6.103515625e-05	679:6.103515625e-05
680:0.000244140625	682:0.0001220703125	684:0.00030517578125
686:0.0001220703125	688:0.0001220703125	689:6.103515625e-05
690:0.000244140625	693:0.000244140625	696:0.000244140625
697:6.103515625e-05	700:0.00030517578125	702:0.00030517578125
703:6.103515625e-05	704:0.000244140625	705:6.103515625e-05
707:6.103515625e-05	708:0.0001220703125	710:6.103515625e-05
711:6.103515625e-05	712:6.103515625e-05	713:6.103515625e-05
714:0.00030517578125	715:0.0001220703125	720:0.0006103515625
721:6.103515625e-05	722:6.103515625e-05	725:6.103515625e-05
726:0.00018310546875	728:0.00030517578125	729:9.1552734375e-05
730:6.103515625e-05	731:6.103515625e-05	732:0.0001220703125
735:0.00018310546875	736:0.00018310546875	737:6.103515625e-05
738:0.00018310546875	740:0.0001220703125	741:0.0001220703125
742:0.0001220703125	744:0.000244140625	747:6.103515625e-05
748:0.00018310546875	749:6.103515625e-05	750:0.000244140625
752:0.0001220703125	754:0.0001220703125	756:0.00048828125
759:0.0001220703125	760:0.000244140625	762:6.103515625e-05
763:6.103515625e-05	765:0.00018310546875	767:6.103515625e-05
768:0.000274658203125	770:0.00030517578125	774:0.0001220703125
775:6.103515625e-05	776:6.103515625e-05	777:0.0001220703125
779:6.103515625e-05	780:0.0003662109375	781:6.103515625e-05
782:0.0001220703125	783:0.0001220703125	784:0.000274658203125
790:6.103515625e-05	791:6.103515625e-05	792:0.00042724609375
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A.2 Appendix 2

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A.3 Appendix 3

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A.4 Appendix 4

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A.5 Appendix 5

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A.6 Appendix 6

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A.7 Appendix 7

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A.8 Appendix 8

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A.11 Appendix 11

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-111	113	-110	121	-53	-99
-81	-52	-118	117	47	-38
-11	7	105	-11	-61	-27
20	-86	125	-8	-94	4
-25	90	-6	-15	-71	-60
39	-79	-50	-110	-92	97
103	54	111	-111	8	106
-44	92	-49	-45	-53	65
-68	-29	-5	-125	93	40
122	-78	69	55	-72	-44
-105	-37	-13	17	40	74
-85	-17	-63	62	57	-61
-48	125	93	-26	9	-83
39	-70	-46	-5	42	-96
-33	111	-36	18	4	-84
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-28	117	-102	-72	90	-7
39	86	98	-109	-44	106
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-84	-21	-65	46	-116	-120
-42	5	-34	-9	56	-88
-12	-83	81	-108	105	-37
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-111	-127	66	-17	-109	5
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-104	-31	-82	-4	57	-100
-45	100	28	-31	-57	127
124	-126	23	-121	110	21
51	89	99	96	63	-86
97	3	-34	83	92	40
22	-80	-4	-49	113	-105
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-13	-15	81	-56	96	-103
-63	50	14	-127	-70	15
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121	55	13	-56	-10	95
108	-102	-107	78	-47	6
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24	53	17	-105	62	55
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123	7	-30	102	65	109
42	-33	-37	-36	-121	-67
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26	122	-34	-25	-33	-82
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113	43	61	70	-105	-92
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-109	37	-54	2	63	20
83	94	7	3	-6	101
15	-117	-106	101	2	51
35	-1	111	72	-76	-81
-6	40	-9	-73	126	107
-127	0	-59	-50	112	-20
109	-15	-53	-57	-113	102
-71	82	-38	-2	19	-72
111	84	40	-1	100	-128
86	-125	-99	-63	-114	44
-71	2	96	13	-106	-66