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### **Equihash: An Overview & Guide of the Equihash Algorithm**

Equihash is a popular hashing algorithm used in various Proof of Work (PoW) blockchains, including Zcash and Komodo. At the time of writing, this hashing algorithm helps secure over \$500 Million in assets among the top 10 Equihash-based coins by market capitalization.

asymmetric proof-of-work (PoW) based on a computationally-hard problem, which requires a great deal of memory to generate a proof (called a "memory-hardness" feature) but is instant to verify. Our primary proposal, Equihash, is a PoW based on the generalized birthday problem and enhanced Wagner's algorithm for it.

**Equihash Algorithm Explained - Mycryptopedia**  
**Equihash - Mining Algorithms, Coins,**

### **Tokens - BitcoinWiki**

In this paper we solve this open problem and show how to construct an asymmetric proof-of-work (PoW) based on a computationally hard problem, which requires a lot of memory to generate a proof (called "memory-hardness" feature) but is instant to verify.

Equihash Algorithm Explained. Last Updated: 1st November 2018. Developed by Alex Biryukov and Dmitry Khovratovich at

the University of Luxembourg, the Equi-hash algorithm is an asymmetric memory-orientated proof-of-work system that is based on the generalized birthday problem. Equi-hash is memory-orientated in that it is 'memory-hard', meaning that the amount of proof-of-work mining that can ...

### **Equi-hash - Wikipedia**

**Equi-hash: asymmetric proof-of-work based on the ...**

**Equi-hash: Asymmetric Proof-of-Work Based on the ...**

Equi-hash: Asymmetric Proof-of-Work Based on the Generalized Birthday Problem (Full version) Alex Biryukov University of Luxembourg alex.biryukov@uni.lu Dmitry Khovratovich University of Luxembourg khovratovich@gmail.com Abstract—Proof-of-work is a central concept in modern cryptocurrencies and denial-of-service protection tools, but the

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Equi-hash is designed by Alex Biryukov and Dmitry Khovratovich, cryptographers at the University of Luxembourg. Equi-hash is an asymmetric proof-of-work algorithm based on a computationally hard generalized birthday problem, which requires a lot of memory to generate a proof, but is instant to verify.

### **GitHub - digitalbazaar/equi-hash: Equi-hash Proof of Work ...**

Equi-hash is a memory-hard Proof-of-Work algorithm introduced by the University of Luxembourg's Interdisciplinary Centre for Security, Reliability and Trust (SnT) at the 2016 Network and Distributed System Security Symposium. The algorithm is based on a generalization of the Birthday problem which finds colliding hash values. Equi-hash. Equi-hash is an asymmetric Proof of Work mechanism that is memory-hard, as it requires a lot of memory to generate an instant verification test. This constraint has kept the algorithm ASIC Proof for a

long time, but last year Bitmain announced a specific model for Equi-hash-based coins.

### **Cryptology ePrint Archive: Report 2015/946 - Equi-hash ...**

Equi-hash: Asymmetric Proof-of-Work Based on the Generalized Birthday Problem Proof-of-work is a central concept in modern cryptocurrencies and denial-of-service protection tools, but the requirement for fast verification so far has made it an easy prey for GPU-, ASIC-, and bot-net-equipped users.

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### **Equihash - Mining Algorithms, Coins, Tokens - BitcoinWiki**

Full paper. Equihash original paper.. High Level View. Article: "Equihash: asymmetric proof-of-work based on the Generalized Birthday problem Authors: Alex Biryukov and Dmitry Khovratovich; Equihash is a family of proof-of-work schemes with three parameters  $n$ ,  $k$ , and  $d$ , which determine the scheme Equihash- $n/k/d$  and the time and memory complexity of the puzzle solver for it, and seed  $S$ , which ...

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### **GitHub - khovratovich/equihash: Equihash: memory-hard PoW ...**

Equihash Proof of Work for Node. Equihash is a tunable asymmetric proof of work algorithm where it is difficult to generate a proof, but easy to verify one. The algorithm makes it difficult to build custom hardware to generate the proof by ensuring forced CPU and memory trade offs.

### **GitHub - digitalbazaar/equihash: Equihash Proof of Work ...**

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### **Mining algorithms (Proof of Work): Blake2b, Equihash ...**

CryptoNight vs. EquiHash. by MinerGate Mining Pool September, 17, 2018. There have been many algorithms discussed and proposed over the years in the cryptocurrency space. There are many arguments for and against each Proof-of-Work algorithm, however, we'll discuss two most widely known of them - CryptoNight and EquiHash.

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