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## **CNIT 141: 9. Elliptic Curve Cryptosystems**

~~Antminer Z9 Review - Equihash ASIC Miner = 24 1080 TI Mining @ 342 Watts?! Comment miner du ZCash en 2020 ?~~ **Equihash Asymmetric Proof Of Work**

Developed by Alex Biryukov and Dmitry Khovratovich at the University of Luxembourg, the Equihash algorithm is an asymmetric memory-orientated proof-of-work system that is based on the generalized

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birthday problem. Equihash is memory-orientated in that it is 'memory-hard', meaning that the amount of proof-of-work mining that can be done is predominantly determined by how much memory i.e. RAM that one possesses.

### **Equihash Algorithm Explained - Mycryptopedia**

Equihash: 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

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protection tools, but the

### **Equihash: Asymmetric Proof-of-Work Based on the ...**

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. Our primary proposal Equihash is a PoW based on the generalized birthday problem and enhanced Wagner's algorithm for it.

### **Equihash: Asymmetric Proof-of-Work Based on the ...**

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The final version of the paper “Equihash: Asymmetric Proof-of-Work Based on the Generalized Birthday Problem” can be found in Ledger Vol. 2 (2017) 1-30, DOI 10.5915/LEDGER.2017.48. There were two reviewers who responded, neither of whom have requested to waive their anonymity at present, and are thus listed as A and B. ...

### **Equihash: Asymmetric Proof-of-Work Based on the ...**

Equihash: asymmetric proof-of-work based on the Generalized Birthday problem. [en] The proof-of-work is a central concept in modern cryptocurrencies, but the requirement for fast verification so far made it an

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easy prey for GPU-, ASIC-, and botnet-equipped users.

### **Equihash: asymmetric proof-of-work based on the ...**

Equihash: asymmetric proof-of-work based on the Generalized Birthday problem. [en] The proof-of-work is a central concept in modern cryptocurrencies, but the requirement for fast verification so far made it an easy prey for GPU-, ASIC-, and botnet-equipped users.

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Asymmetric verification. Clearly, the proof search must be more expensive than verification. Asymmetric



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verification. HashCash/Bitcoin Proof-of-Work with hash function  $H: S \rightarrow \{0,1\}^q$ . Proof, if  $H(S) = 00\dots0$  (q zeros).

### **Equihash: Asymmetric Proof-of-Work based on the ...**

Equihash is a memory-hard Proof-of-Work algorithm introduced by the University of Luxembourg's Interdisciplinary Centre for Security, Reliability and Trust 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. It has severe time-space trade-offs but concedes vulnerability to unforeseen parallel optimizations. It was designed such that parallel

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implementations are bottle-necked by memory

## **Equihash - Wikipedia**

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 ...**

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

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requires a lot of memory to generate a proof (called "memory-hardness" feature) but is instant to verify.

### **[Week 1] Equihash: Asymmetric Proof-of-Work Based on the ...**

Equihash is a proof-of-work hashing algorithm developed by Alex Biryukov and Dmitry Khovratovich and introduced by the University of Luxembourg's research group called CryptoLUX, which they were a part of, at the Network and Distributed System Security Symposium 2016 in San Diego. Biryukov and Khovratovich designed Equihash to fight with a problem of the ASICs domination in the Bitcoin -like systems.

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

Equihash is the proof-of-work hash function in the Zcash and Bitcoin Gold blockchains. It is memory-intensive hash-function (requires a lot of RAM for fast calculation), so it is believed to be ASIC-resistant. How does Equihash work? Uses BLAKE2b to compute 50 MB hash dataset from the previous blocks in the blockchain (until the current block).

## **Proof-of-Work Hash Functions - Practical Cryptography for ...**

Equihash: Asymmetric Proof-of-Work Based on the

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Generalized Birthday Problem. April 2017; ... from an asymmetric proof-of-work and show how to adapt a computationally-hard problem.

### **(PDF) Equihash: Asymmetric Proof-of-Work Based on the ...**

What Constitutes a good Proof of Work? Some criteria for a good Proof of Work system in a decentralized blockchain with fair distribution of newly mined coins have been formalized by Biryukov and Khovratovich in their Equihash paper: Asymmetry: The Proof of Work needs to be hard to produce, but easy to verify. Hashing is an example of an asymmetric task.

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### **PoW - Proof of Work - Horizen Academy**

The Equihash algorithm is an asymmetric memory-orientated proof of work system that is premised on the generalized birthday problem. The Zcash algorithm, Equihash, is also memory-orientated in that it is 'memory-hard'.

### **Zcash Algorithm Explained - Mycryptopedia**

Developed by Alex Biryukov and Dmitry Khovratovich at the University of Luxembourg, the Equihash algorithm is an asymmetric memory-orientated proof-of-work system that is based on the generalized birthday problem.

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## **CryptoNight vs. EquiHash — Official MinerGate Blog**

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Equihash Equihash is an asymmetric Proof of Work

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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 Equihash-based coins.

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

Equihash is the proof-of-work hash function in the Zcash and Bitcoin Gold blockchains. It is memory-intensive hash-function (requires a lot of RAM for fast calculation), so it is believed to be ASIC-resistant. How does Equihash work? Uses BLAKE2b to compute 50 MB hash dataset from the previous blocks in the



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