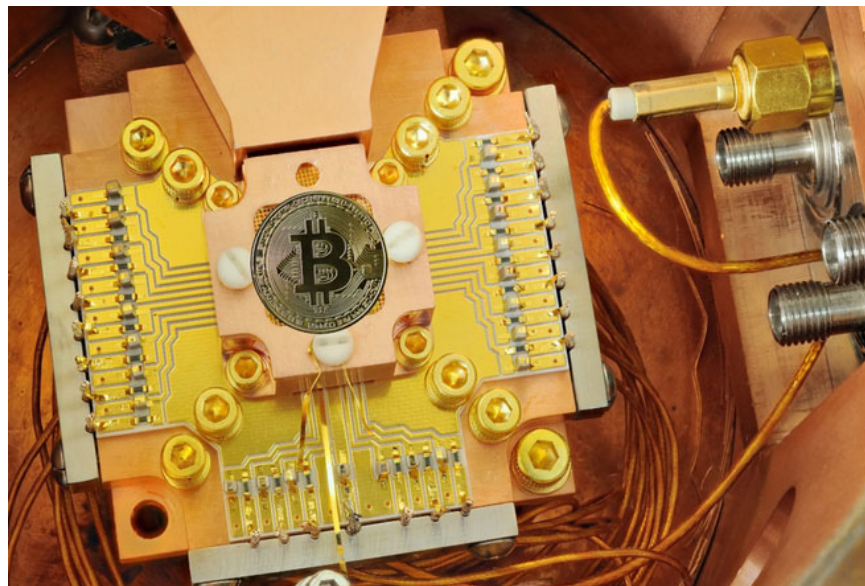


Sycamore, Google's quantum supercomputer only takes 2 seconds to mine the remaining 3 million Bitcoin?

Can quantum supercomputers decode Bitcoin's highly encrypted blockchain network?

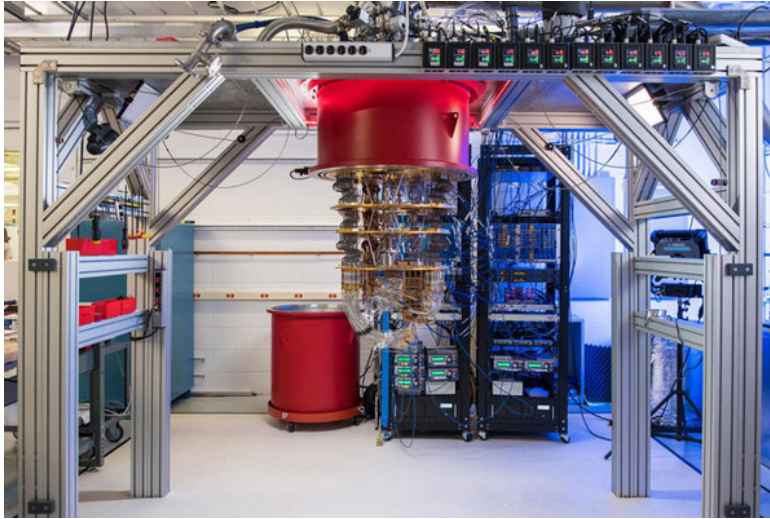
Sycamore, Google's quantum supercomputer only takes about 200 seconds to solve today's most difficult problem that IBM Summit supercomputer takes 10,000 years to solve.

It has been hypothesized that if you use Google's quantum supercomputer to mine all 3 million Bitcoin (BTC), which is still untapped with a total value of about \$ 26.3 billion (current price) at 1BTC = 8.7 thousand USD), it only takes less than 2 seconds. A very small number compared to the 121-year period when using a normal computer.



Google's announcement of the Sycamore quantum supercomputer with the 54-qubit Sycamore quantum processor, has worried the crypto community worldwide. They fear that this quantum computer could threaten the blockchain network.

So, can quantum supercomputers decode Bitcoin's highly encrypted blockchain network and can this hypothesis happen?



The quantum Sycamore 54 qubit supercomputer can solve Google's most difficult problem.

That may be true but only theoretically because Bitcoin's blockchain network is extremely complex with the principle of 'difficulty adjustment'. After every 2,016 blocks (about 14 days) based on the mining power involved in each cycle, the Bitcoin network is adjusted to the difficulty of mining. This design ensures that the block production time at the next stage is maintained for about 10 minutes. As more computers compete in bitcoin's hash function to mine newly created bitcoin, the difficulty will increase and vice versa, when fewer people dig, the difficulty will decrease.

The above hypothesis ignores this design of bitcoin. If a quantum supercomputer engages in the decoding, the next difficulty in mining will increase to a higher and slower decode speed, even for supercomputers. While this is not a threat to Bitcoin, when the difficulty is pushed to the level that normal machines cannot solve, the whole system will be paralyzed.



That is theoretically also in fact Google will not use its machine to do that. However, whether such a level of difficulty can occur or not is still a question mark.

Recently, Vitalik Buterin, the father of Ethereum, said that Google's quantum supercomputer is a proof of the concept of a machine with processing power that surpasses all but is not really a threat to Bitcoin or cryptocurrency.

Crypto expert Andreas Antonopolous said that if we had a machine that could solve all problems, we would face another extremely dangerous problem. That is, we have to upgrade encryption systems including financial systems, communication systems, confidential lines . so they can fight against quantum computers.

1. Learn the basics of supercomputers, complex and powerful machines
2. Supercomputers used to do?

You finished reading the article "**Sycamore, Google's quantum supercomputer only takes 2 seconds to mine the remaining 3 million Bitcoin?**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.