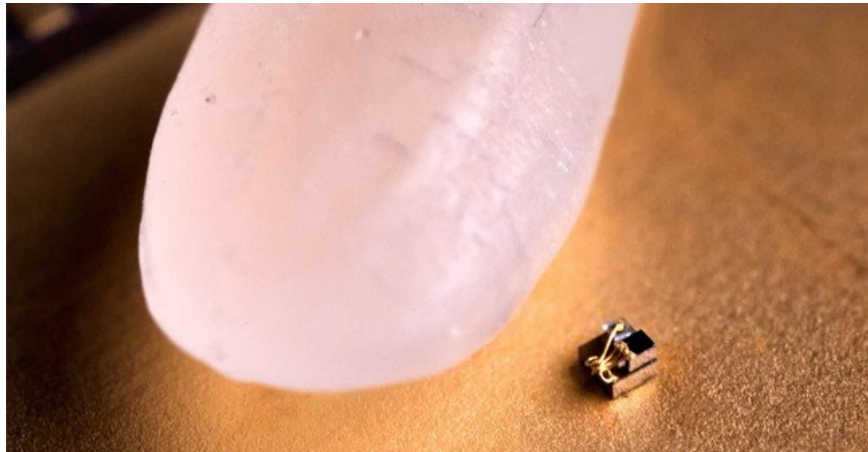


The world's smallest computer, 0.04mm block

The record of the world's smallest rice-only computer with the size of IBM has been broken by the 'computer' of a temperature-sensing cube of only 0.04mm in size by scientists at the University of Michigan. fabricated. Compared to it, rice grains also become too huge.

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Scientists have switched from transistors to capacitors, and have to find ways to suppress the capital that appears when devices that use extremely little energy to create this microcomputer to minimize the impact of light. This sensor is so sensitive that its transmission LED can generate electricity right in the circuit board.



The University of Michigan "computer" next to a grain of rice.

This sensor can measure fluctuations in extremely small spaces, like a group of cells in your body. Scientists suspect that tumors will be a bit hotter than healthy tissues, but traditional methods so far cannot confirm this. This tiny device can test that hypothesis and open a new direction in cancer diagnosis and treatment. In addition, it will help accurately diagnose glaucoma from inside the eye, monitor biochemical processes .

This device has a complete processor based on the ARM Cortex-M0 + design, so it is considered as a 'computer' even though it functions as a sensor. Currently, this microcomputer still faces the problem of losing all data if it is disconnected, similar to an IBM computer. Scientists are still studying to overcome this problem so that it can be put into practical use.

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