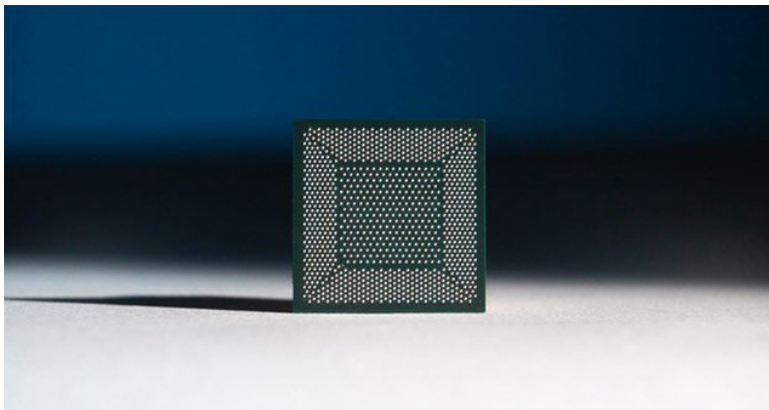


# Intel launches a new AI chip that is 1,000 times faster than CPU

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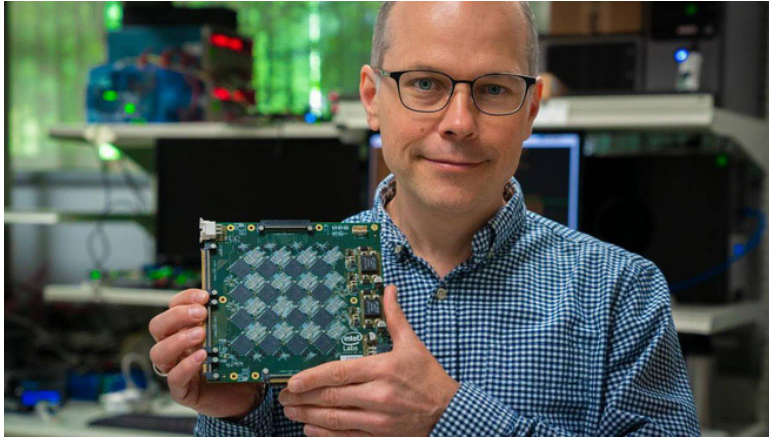
By simulating the entire neural cell network, Pohoiki Beach has the ability to process data like a biological brain that speeds up the information processing capabilities of semiconductors 1,000 times faster and more efficient. 10,000 times that of conventional CPUs and can be applied in the areas of self-driving cars, autonomous robots, artificial limbs .



Loihi chip.

There are between 8 and 32 Loi chips that will be placed on a motherboard called "Nahuku". Each Pohoiki Beach system is created by many Nahuku motherboards and can communicate with Intel's Arria 10 FPGA kit.

Pohoiki Beach will be very powerful in tasks related to neural network, such as mapping, coding or planning a real-time route prediction . essential for self-driving systems. driver, maid robot and multi-purpose sensor systems.



Each Nahuku board will contain about 8 to 32 small chips.

Intel added that Pohoiki Beach is also being used to experiment with a number of prosthetic devices to provide the ability to handle and track objects via cameras and send signals to tactile sensors .

Compared to traditional GPU / CPU systems, the Pohoiki system works better and consumes less power.

It is not known if this technology may appear on the company's PC processors, but in the future you will see Intel talk more about neuronal chips. Later this year, Intel intends to expand the technology to 100 million neurons, 10 times the Pohoiki Beach system.

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