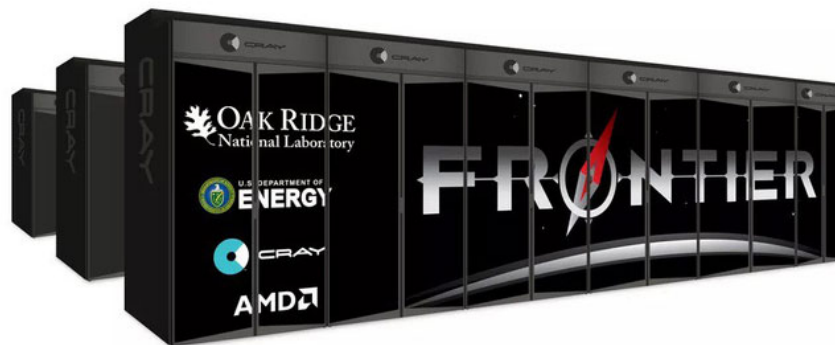


# AMD and Cray will build the world's fastest supercomputer for the US government

The US Department of Energy has just released information about the world's fastest super-computer manufacturing in 2021.

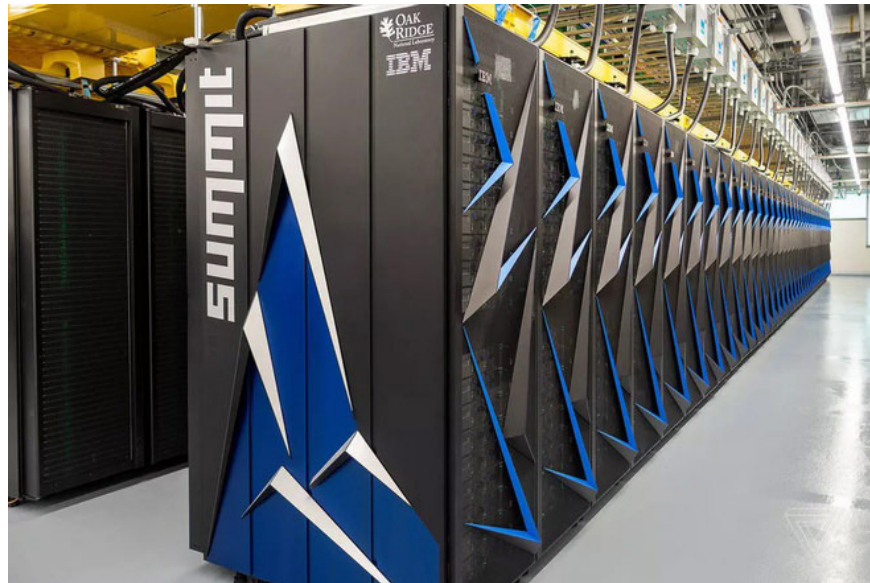
The US Department of Energy has released information about the world's fastest supercomputer in 2021. This supercomputer will be called the Frontier, built by AMD chip designer and super manufacturer. Cray computers for Oak Ridge National Laboratory in Tennessee, with processing power of more than 1.5 exaflops.

Frontier supercomputers are expected to be used in areas such as nuclear and climate research.



World's fastest supercomputer renderer Frontier, developed by AMD and Cray.

Energy Minister Rick Perry said, Frontier with record performance will help the United States to lead the world in science, improve the life and economic prosperity not only of the US but also the world. In addition, Frontier also provides world-class data and computing resources for US researchers to help accelerate innovation in AI, ensuring the next major invention is implemented in the United States.



Summit, the fastest supercomputer in the world today, is also located at Oak Ridge National Laboratory.

AMD said that the Frontier is a giant size (equivalent to two basketball courts) and contains 90 miles of cable. Frontier's processing power is equivalent to 160 of the fastest next-generation supercomputers combined. It can handle 100,000 HD movies in a second thanks to its 24 million times greater bandwidth than the average home Internet connection.

Frontier is an "Exascale computing" concept that refers to the ability to process at least 1 exaFLOPS of a computer system, ie the only one billion billion seconds per second that the United States is currently making. Previously, the US Department of Energy has also announced a similar project earlier this year, Aurora supercomputer created by Intel and Cray. Aurora is located at the Argonne National Laboratory and it will become the first exascale supercomputer in the US, but in terms of processing power it does not catch up to Frontier.

New American super computer.

However, even if the US completes these machines, it does not mean that the United States will rise to the leading power of computing. Because China also plans to build exascale supercomputers and will put them into operation in 2020, a year ahead of the US. Currently, China is home to 227 of the fastest computers in the world, more than 2 times more than the US (109 units).

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