

# READ FREE ARTIFICIAL LIFE A REPORT FROM THE FRONTIER WHERE COMPUTERS MEET BIOLOGY (READ ONLY)

HEWLETT PACKARD ENTERPRISE FRONTIER OR OLCF 5 IS THE WORLD S FIRST EXASCALE SUPERCOMPUTER IT IS HOSTED AT THE OAK RIDGE LEADERSHIP COMPUTING FACILITY OLCF IN TENNESSEE UNITED STATES AND BECAME OPERATIONAL IN 2022 AS OF DECEMBER 2023 FRONTIER IS THE WORLD S FASTEST SUPERCOMPUTER SUPERCOMPUTING THE FRONTIER B SUPERCOMPUTER AT THE DEPARTMENT OF ENERGY S OAK RIDGE NATIONAL LABORATORY B EARNED THE TOP RANKING TODAY AS THE WORLD S FASTEST ON THE 59TH TOP500 LIST WITH 1 1 EXAFLOPS OF PERFORMANCE THE SYSTEM IS THE FIRST TO ACHIEVE AN UNPRECEDENTED LEVEL OF COMPUTING PERFORMANCE KNOWN AS EXASCALE A THRESHOLD OF A 1 FRONTIER THE NEW NUMBER 1 IS BUILT BY HEWLETT PACKARD ENTERPRISE HPE AND HOUSED AT THE OAK RIDGE NATIONAL LABORATORY ORNL IN TENNESSEE USA 2 FUGAKU WHICH PREVIOUSLY HELD THE TOP SPOT IS INSTALLED AT THE RIKEN CENTER FOR COMPUTATIONAL SCIENCE IN KOBE JAPAN IT IS THREE TIMES FASTER THAN THE NEXT SUPERCOMPUTER IN THE TOP 10 3 SEPTEMBER 30 2021 BY STAFF SHARE FRONTIER PREPARING FOR THE NATION S FIRST EXASCALE SYSTEM THE UPCOMING HPE CRAY EX FRONTIER FRONTIER SYSTEM AT THE US DEPARTMENT OF ENERGY S DOE S OAK RIDGE NATIONAL LABORATORY ORNL HAS BEEN A COLOSSAL UNDERTAKING FRONTIER THE NAME OF THE MASSIVE MACHINE AT OAK RIDGE NATIONAL LABORATORY WAS DECLARED ON MONDAY TO BE THE FIRST TO DEMONSTRATE PERFORMANCE OF ONE QUINTILLION OPERATIONS PER SECOND A BILLION THE FRONTIER SUPERCOMPUTER IS BUILT BY HPE AND IS INSTALLED AT THE DEPARTMENT OF ENERGY S DOE OAK RIDGE NATIONAL LABORATORY ORNL IN TENNESSEE THE SYSTEM FEATURES 9 408 COMPUTE NODES EACH 1 43 SCIENTISTS IN TENNESSEE IN MAY UNVEILED A SUPERCOMPUTER THAT CRACKED THE THRESHOLD OF A QUINTILLION CALCULATIONS PER SECOND THE SYSTEM CALLED FRONTIER OFFICIALLY THE WORLD S KNOXVILLE NEWS SENTINEL 0 00 1 06 THE NEW FRONTIER SUPERCOMPUTER AT OAK RIDGE NATIONAL LABORATORY IN TENNESSEE WAS JUST DECLARED TO BE FASTEST COMPUTER IN THE WORLD THE FRONTIER TOPIC SUPERCOMPUTING THE U S DEPARTMENT OF ENERGY S OAK RIDGE NATIONAL LABORATORY CELEBRATED THE DEBUT OF FRONTIER THE WORLD S FASTEST SUPERCOMPUTER AND THE DAWN OF THE EXASCALE COMPUTING ERA DEPUTY SECRETARY OF ENERGY DAVID TURK DOE OFFICE OF SCIENCE DIRECTOR ASMERET ASEFAW BERHE AND U S REP CHUCK FLEISCHMANN JOINED ORNL DIRECTOR THE WORLD S FASTEST SUPERCOMPUTER WILL BE BUILT IN THE US BY 2021 THE US DEPARTMENT OF ENERGY ANNOUNCED TODAY THE MACHINE DUBBED FRONTIER WILL BE BUILT BY CHIP DESIGNER AMD AND FRONTIER SUPERCOMPUTER TO GET WORLD S FASTEST STORAGE 75 TB S 15 BILLION IOPS 700 PETABYTES THE OAK RIDGE LEADERSHIP COMPUTING FACILITY OLCF HAS ANNOUNCED THE FIRST DETAILS ABOUT THE ORION ON MAY 30 2022 THE FRONTIER SUPERCOMPUTER AT OAK RIDGE NATIONAL LABORATORY EARNED THE TOP RANKING AS THE WORLD S FASTEST ON THE 59TH TOP500 LIST WITH 1 1 EXAFLOPS OF PERFORMANCE THE SYSTEM IS 103k VIEWS 1 YEAR AGO THE FRONTIER SUPERCOMPUTER AT THE DEPARTMENT OF ENERGY S OAK RIDGE NATIONAL LABORATORY EARNED THE TOP RANKING ON MAY 30 2022 AS THE WORLD S FASTEST ON THE 59TH TOP500 THE WORLD S LATEST FASTEST SUPERCOMPUTER FRONTIER AT OAK RIDGE NATIONAL LAB IN TENNESSEE IS SO POWERFUL THAT IT OPERATES FASTER THAN THE NEXT SEVEN BEST SUPERCOMPUTERS COMBINED AND MORE THAN TWICE AS WELL AS THE NO 2 MACHINE COMPUTING WHAT S NEXT FOR THE WORLD S FASTEST SUPERCOMPUTERS SCIENTISTS HAVE BEGUN RUNNING EXPERIMENTS ON FRONTIER THE WORLD S FIRST OFFICIAL EXASCALE MACHINE WHILE FACILITIES WORLDWIDE BUILD HERE S WHAT WE KNOW ABOUT FRONTIER THE WORLD S FIRST FASTEST EXASCALE SUPERCOMPUTER BY HPE SOURCE HPE FRONTIER CLAIMS TO BE THE WORLD S MOST ENERGY EFFICIENT SUPERCOMPUTER AS IT IS 32 MORE ENERGY EFFICIENT COMPARED TO THE PREVIOUS NUMBER ONE SYSTEM NOW EVEN AS POWERFUL NEW SUPERCOMPUTERS HAVE COME ONLINE FRONTIER AT OAK RIDGE NATIONAL LABORATORY IS STILL THE WORLD S FASTEST FOR THE FOURTH TIME IN A ROW AND HAS ESTABLISHED ITSELF AS A 31 MAY 2022 THE FRONTIER SUPERCOMPUTER CARLOS JONES ORNL U S DEPT OF ENERGY THE WORLD S FIRST EXASCALE COMPUTER CAPABLE OF PERFORMING A BILLION BILLION OPERATIONS PER SECOND HAS BEEN FRONTIER IS A DOE OFFICE OF SCIENCE EXASCALE SUPERCOMPUTER THAT WAS RANKED THE FASTEST IN THE WORLD ON THE TOP500 LIST RELEASED MAY 30 2022 IMAGE COURTESY OF OAK RIDGE NATIONAL LABORATORY U S SCIENTISTS AND COLLABORATORS HAVE A POWERFUL NEW INSTRUMENT AT THEIR DISPOSAL THE WORLD S FIRST EXASCALE SUPERCOMPUTER

## FRONTIER SUPERCOMPUTER WIKIPEDIA

JAN 31 2024

HEWLETT PACKARD ENTERPRISE FRONTIER OR OLCF 5 IS THE WORLD S FIRST EXASCALE SUPERCOMPUTER IT IS HOSTED AT THE OAK RIDGE LEADERSHIP COMPUTING FACILITY OLCF IN TENNESSEE UNITED STATES AND BECAME OPERATIONAL IN 2022 AS OF DECEMBER 2023 FRONTIER IS THE WORLD S FASTEST SUPERCOMPUTER

## FRONTIER SUPERCOMPUTER DEBUTS AS WORLD S FASTEST BREAKING

DEC 30 2023

SUPERCOMPUTING THE FRONTIER B SUPERCOMPUTER AT THE DEPARTMENT OF ENERGY S OAK RIDGE NATIONAL LABORATORY B EARNED THE TOP RANKING TODAY AS THE WORLD S FASTEST ON THE 59TH TOP500 LIST WITH 1.1 EXAFLOPS OF PERFORMANCE THE SYSTEM IS THE FIRST TO ACHIEVE AN UNPRECEDENTED LEVEL OF COMPUTING PERFORMANCE KNOWN AS EXASCALE A THRESHOLD OF A

## *THESE ARE THE WORLD S TOP 10 FASTEST SUPERCOMPUTERS*

NOV 28 2023

1 FRONTIER THE NEW NUMBER 1 IS BUILT BY HEWLETT PACKARD ENTERPRISE HPE AND HOUSED AT THE OAK RIDGE NATIONAL LABORATORY ORNL IN TENNESSEE USA 2 FUGAKU WHICH PREVIOUSLY HELD THE TOP SPOT IS INSTALLED AT THE RIKEN CENTER FOR COMPUTATIONAL SCIENCE IN KOBE JAPAN IT IS THREE TIMES FASTER THAN THE NEXT SUPERCOMPUTER IN THE TOP 10 3

## A LOOK INSIDE THE US S 1ST EXASCALE SUPERCOMPUTER FACILITY

OCT 28 2023

SEPTEMBER 30 2021 BY STAFF SHARE FRONTIER PREPARING FOR THE NATION S FIRST EXASCALE SYSTEM THE UPCOMING HPE CRAY EX FRONTIER FRONTIER SYSTEM AT THE US DEPARTMENT OF ENERGY S DOE S OAK RIDGE NATIONAL LABORATORY ORNL HAS BEEN A COLOSSAL UNDERTAKING

## U S RETAKES TOP SPOT IN SUPERCOMPUTER RACE THE NEW YORK TIMES

SEP 26 2023

FRONTIER THE NAME OF THE MASSIVE MACHINE AT OAK RIDGE NATIONAL LABORATORY WAS DECLARED ON MONDAY TO BE THE FIRST TO DEMONSTRATE PERFORMANCE OF ONE QUINTILLION OPERATIONS PER SECOND A BILLION

## AMD POWERED FRONTIER SUPERCOMPUTER BREAKS THE EXASCALE

AUG 26 2023

THE FRONTIER SUPERCOMPUTER IS BUILT BY HPE AND IS INSTALLED AT THE DEPARTMENT OF ENERGY S DOE OAK RIDGE NATIONAL LABORATORY ORNL IN TENNESSEE THE SYSTEM FEATURES 9 408 COMPUTE NODES EACH

## **FRONTIER SUPERCOMPUTER WORLD S FASTEST NEEDS 74 MILES OF**

JUL 25 2023

1 43 SCIENTISTS IN TENNESSEE IN MAY UNVEILED A SUPERCOMPUTER THAT CRACKED THE THRESHOLD OF A QUINTILLION CALCULATIONS PER SECOND THE SYSTEM CALLED FRONTIER OFFICIALLY THE WORLD S

## ***FRONTIER SUPERCOMPUTER RANKED FASTEST ON EARTH BREAKS***

JUN 23 2023

KNOXVILLE NEWS SENTINEL 0 00 1 06 THE NEW FRONTIER SUPERCOMPUTER AT OAK RIDGE NATIONAL LABORATORY IN TENNESSEE WAS JUST DECLARED TO BE FASTEST COMPUTER IN THE WORLD THE FRONTIER

## ***ORNL CELEBRATES LAUNCH OF FRONTIER THE WORLD S FASTEST***

MAY 23 2023

TOPIC SUPERCOMPUTING THE U S DEPARTMENT OF ENERGY S OAK RIDGE NATIONAL LABORATORY CELEBRATED THE DEBUT OF FRONTIER THE WORLD S FASTEST SUPERCOMPUTER AND THE DAWN OF THE EXASCALE COMPUTING ERA DEPUTY SECRETARY OF ENERGY DAVID TURK DOE OFFICE OF SCIENCE DIRECTOR ASMERET ASEFAW BERHE AND U S REP CHUCK FLEISCHMANN JOINED ORNL DIRECTOR

## WORLD S FASTEST SUPERCOMPUTER WILL BE BUILT BY AMD AND CRAY

APR 21 2023

THE WORLD S FASTEST SUPERCOMPUTER WILL BE BUILT IN THE US BY 2021 THE US DEPARTMENT OF ENERGY ANNOUNCED TODAY THE MACHINE DUBBED FRONTIER WILL BE BUILT BY CHIP DESIGNER AMD AND

## ***FRONTIER SUPERCOMPUTER TO GET WORLD S FASTEST STORAGE 75 TB***

MAR 21 2023

FRONTIER SUPERCOMPUTER TO GET WORLD S FASTEST STORAGE 75 TB S 15 BILLION IOPS 700 PETABYTES THE OAK RIDGE LEADERSHIP COMPUTING FACILITY OLCF HAS ANNOUNCED THE FIRST DETAILS ABOUT THE ORION

## **NEW EXASCALE SUPERCOMPUTER CAN DO A QUINTILLION CALCULATIONS**

FEB 17 2023

ON MAY 30 2022 THE FRONTIER SUPERCOMPUTER AT OAK RIDGE NATIONAL LABORATORY EARNED THE TOP RANKING AS THE WORLD S FASTEST ON THE 59TH TOP500 LIST WITH 1.1 EXAFLOPS OF PERFORMANCE THE SYSTEM IS

## FRONTIER THE WORLD S FIRST EXASCALE SUPERCOMPUTER HAS ARRIVED

JAN 19 2023

103k VIEWS 1 YEAR AGO THE FRONTIER SUPERCOMPUTER AT THE DEPARTMENT OF ENERGY S OAK RIDGE NATIONAL LABORATORY EARNED THE TOP RANKING ON MAY 30 2022 AS THE WORLD S FASTEST ON THE 59TH TOP500

## **THE BEATING HEART OF THE WORLD S FIRST EXASCALE SUPERCOMPUTER**

DEC 18 2022

THE WORLD S LATEST FASTEST SUPERCOMPUTER FRONTIER AT OAK RIDGE NATIONAL LAB IN TENNESSEE IS SO POWERFUL THAT IT OPERATES FASTER THAN THE NEXT SEVEN BEST SUPERCOMPUTERS COMBINED AND MORE THAN TWICE AS WELL AS THE NO. 2 MACHINE

## ***WHAT'S NEXT FOR THE WORLD'S FASTEST SUPERCOMPUTERS MIT***

Nov 16 2022

COMPUTING WHAT'S NEXT FOR THE WORLD'S FASTEST SUPERCOMPUTERS SCIENTISTS HAVE BEGUN RUNNING EXPERIMENTS ON FRONTIER THE WORLD'S FIRST OFFICIAL EXASCALE MACHINE WHILE FACILITIES WORLDWIDE BUILD

## **MEET FRONTIER THE WORLD'S FIRST FASTEST EXASCALE TECHHQ**

Oct 16 2022

HERE'S WHAT WE KNOW ABOUT FRONTIER THE WORLD'S FIRST FASTEST EXASCALE SUPERCOMPUTER BY HPE SOURCE HPE FRONTIER CLAIMS TO BE THE WORLD'S MOST ENERGY EFFICIENT SUPERCOMPUTER AS IT IS 32 MORE ENERGY EFFICIENT COMPARED TO THE PREVIOUS NUMBER ONE SYSTEM

## ***FRONTIER SUPERCOMPUTER AT OAK RIDGE NATIONAL LAB IS WORLD'S***

Sep 14 2022

NOW EVEN AS POWERFUL NEW SUPERCOMPUTERS HAVE COME ONLINE FRONTIER AT OAK RIDGE NATIONAL LABORATORY IS STILL THE WORLD'S FASTEST FOR THE FOURTH TIME IN A ROW AND HAS ESTABLISHED ITSELF AS A

## ***EXASCALE SUPERCOMPUTER FRONTIER SMASHES COMPUTING SPEED***

Aug 14 2022

31 MAY 2022 THE FRONTIER SUPERCOMPUTER CARLOS JONES ORNL U.S. DEPT. OF ENERGY THE WORLD'S FIRST EXASCALE COMPUTER CAPABLE OF PERFORMING A BILLION BILLION OPERATIONS PER SECOND HAS BEEN

## **AT THE FRONTIER DOE SUPERCOMPUTING LAUNCHES THE EXASCALE ERA**

Jul 13 2022

FRONTIER IS A DOE OFFICE OF SCIENCE EXASCALE SUPERCOMPUTER THAT WAS RANKED THE FASTEST IN THE WORLD ON THE TOP500 LIST RELEASED MAY 30 2022 IMAGE COURTESY OF OAK RIDGE NATIONAL LABORATORY U.S. SCIENTISTS AND COLLABORATORS HAVE A POWERFUL NEW INSTRUMENT AT THEIR DISPOSAL THE WORLD'S FIRST

EXASCALE SUPERCOMPUTER

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