

MEET EL CAPITAN

On track to be the world's fastest supercomputer!

WHAT COULD YOU DO WITH THE WORLD'S FASTEST SUPERCOMPUTER?

If you're Lawrence Livermore National Laboratory (LLNL), you'll make the world safer.
LLNL focuses on



National security



Public health

Addressing issues from **nuclear stockpile stewardship** to **threats posed to the environment**

SPEED

Their new **HPE CRAY SUPERCOMPUTER** will help them do it at an anticipated

2 QUINTILLION CALCULATIONS PER SECOND.

Just how fast is **2 QUINTILLION?**

IT'S **FAST-18** ZEROS FAST!

2 quintillion = 2 exaflops = 2,000 petaflops
(2,000,000,000,000,000,000)



IF ALL **7.7 BILLION** people on Earth each completed one calculation per second, it would take over **8 YEARS** to do what LLNL's **EL CAPITAN** will be capable of doing in **1 SECOND.**

POWER



EL CAPITAN will be **MORE POWERFUL** than the current **TOP 200** fastest supercomputers in the world **COMBINED**¹ and **10X** faster than the world's current fastest system.²

IMPACT

Exascale supercomputing delivers advanced capabilities in **MODELING, SIMULATION**, and **ARTIFICIAL INTELLIGENCE** that will impact every human life for decades to come.

Systems like **EL CAPITAN** will help change outcomes for critical issues like **CLIMATE CHANGE** which already costs **150,000 LIVES** and billions of dollars annually³ and **CANCER** which is expected to increase to **23.6 MILLION** new diagnosed cases per year by 2030.⁴



^{1,2} Based on Rpeak numbers from Top500 system list, November 2019
³ scientificamerican.com/article/global-warming-and-health/
⁴ cancer.gov/about-cancer/understanding/statistics

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