

Department of Energy (DOE) Roadmap to Exascale Systems

An impressive, productive lineup of *accelerated node* systems supporting DOE's mission

Pre-Exascale Systems [Aggregate Linpack (Rmax) = 323 PF]

First U.S. Exascale Systems

2012

2016

2018

2020

2021-2023



Titan (9)

ORNL

Cray/AMD/NVIDIA



Mira (21)

ANL

IBM BG/Q



Theta (24)

ANL

Cray/Intel KNL



Cori (12)

LLNL

Cray/Intel Xeon/KNL



Summit (1)

ORNL

IBM/NVIDIA



Perlmutter

LLNL

Cray/AMD/NVIDIA



Aurora

ANL

Intel/Cray



FRONTIER

ORNL

AMD/Cray



LLNL

Cray/?



Sequoia (10)

LLNL

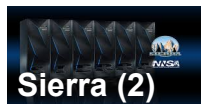
IBM BG/Q



Trinity (6)

LANL/SNL

Cray/Intel Xeon/KNL



Sierra (2)

LLNL

IBM/NVIDIA



CROSSROADS

LANL/SNL

TBD