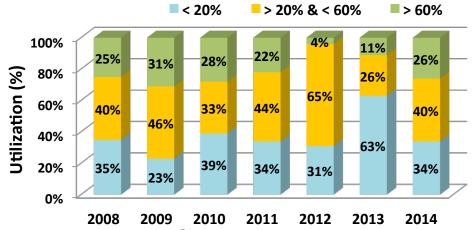
NUCLEI/UNEDF Leadership-class computing

- SciDAC collaborations between applied mathematicians, computer scientists, and nuclear physicists lead to efficient utilization of leadership-class computing resources for nuclear physics problems
- ◆ Significant accomplishments in NUCLEI/UNEDF, achieved through leadership-class computing
 - ► Ab-initio calculations of C-12
 - ➤ Understanding the long lifetime of C-14
 - >Ab-initio calculations of Ca-54
 - ➤ Improved energy-density functionals
 - ➤ Quantifying the limits of nuclear existence
- ◆ Typically, > 60% of the computing resources are used at leadership-class scale (utilization @ OLCF)



INCITE Allocation Trends 2008 – 2015

