Subject: The Next Giant Leap in Adaptive Supercomputing
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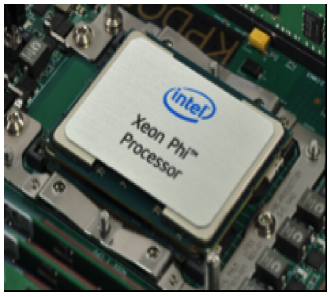
Sponsored Promotion

Cray and Intel® Xeon Phi™ Processor Family

Cray's continued investment in programming environment innovation, decades of system design expertise and the integration of the latest processing technology from Intel combine to introduce our highest peak performing supercomputer to date. This giant leap in Cray's adaptive supercomputing strategy delivers a scalable, production platform that supports state-of-the-art multi-core and many-core processing technologies in the same architecture, better enabling users to implement the most optimized configuration to get the best performance results out of their diverse applications.



The Intel® Xeon Phi™ Product Family

The latest Intel® Xeon Phi™ *many-core* processor, previously codenamed "Knights Landing", includes new integrated features, including more cores, greater threads per core, double vector units, and up to 16 GB of integrated on-chip High Bandwidth Memory (HBM), boasting a 3+ teraflop performance per device. Hybrid Cray® XC™ supercomputers can adaptively support both Intel® Xeon® E5-2600 processor and Intel ® Xeon Phi™ product family blades in a single system, delivering up to a record high 586 teraflops / XC cabinet of peak performance.

Video: Watch Cray CTO Steve Scott describe the new XC series supercomputer

The Cray® XC™ Series Software Advantage

To optimize code performance for these new Intel

processors and all their new features, Cray provides a robust and mature software stack that accelerates time-to-insight, easing code analysis with the CrayPAT and Apprentice2 tools, identifying bottlenecks, providing porting assistance recommendations via Reveal, and delivering the auto-vectorization advantages of the proven Cray compiler. Watch this presentation from a DOE Programming Optimization Workshop for early Cray users like ANL, LANL, NERSC and SNL.

Video: Cray Software Advantage