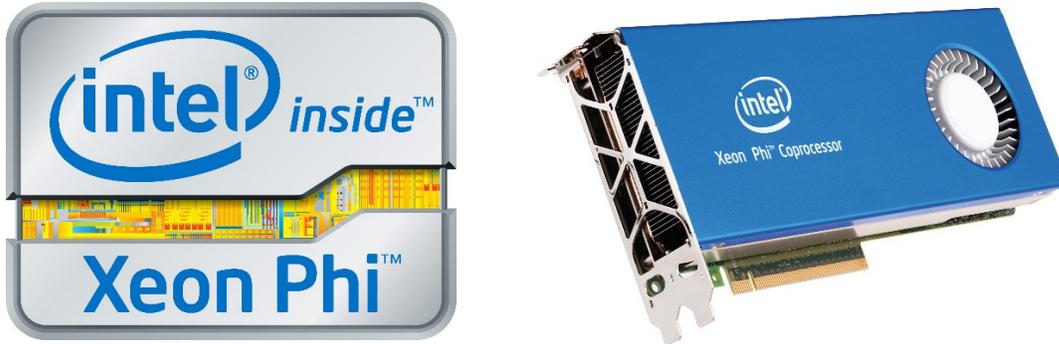


OptiFDTD Linux - Now Supports Intel® Xeon Phi™ Coprocessor Cards

An Intel® Xeon Phi™ coprocessor typically consists of a PCI Express card hosting 57 – 61 cores running up to 244 threads in parallel and providing 6 – 16GB of dedicated memory, reaching up to 1.2 TeraFLOPS of double precision performance: <http://www.intel.com/content/www/us/en/processors/xeon/xeon-phi-detail.html>



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Intel® Xeon Phi™ coprocessor cards run a completely independent Linux operating system within the computer. By using multiple cards, users can start parallel jobs, accelerate the most demanding 3D simulations, and keep additional computer resources available for day-to-day work.

1.6X Speed Increase

OptiFDTD Linux provides a transparent and user-friendly command line tool to run simulations directly on the card. When the Intel® Xeon Phi™ onboard memory is fully utilized, FDTD simulation results can be delivered up to 1.6X faster when compared to the computer's CPU.

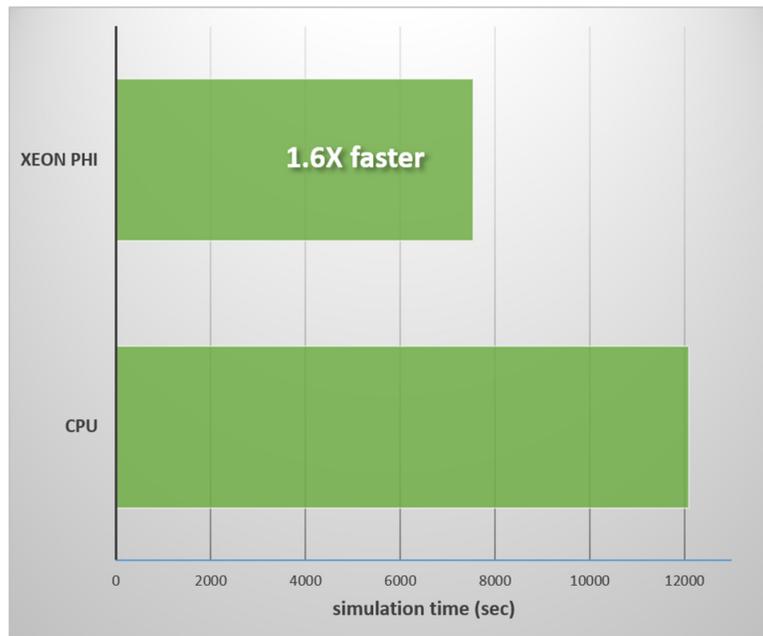


Fig.1. Benchmark results obtained with a Intel® Xeon Phi™ 3120-A card and a dual Intel® Xeon® E5-2603 host CPU. The simulation grid uses 555x555x555 cells for a total of 5.3GB of RAM used.