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In this paper we report on a set of benchmark results obtained by CERN openlab when comparing a 32-core, quad socket, ?Sandy Bridge-EP? server with a 16-core, dual socket, ?Sandy Bridge-EP? server and a 40-core, quad socket server using Intel?s previous microarchitecture, the ?Westmere-EX?. The Intel marketing names for the corresponding processors are the ?Xeon E5-4600 processor series?, ?Xeon E5-2600 processor series? and ?Xeon E7-4800 processor series?, respectively. All three processors are produced using a 32 nm process. Multiple benchmarks were used to get a good understanding of the performance of each processor. We used both industry-standard benchmarks, such as SPEC CPU2006, and specific High Energy Physics benchmarks, representing both simulation of physics detectors and data analysis of physics events.

Technical document file:

 [Evaluation_of_the_4_socket_Intel_Sandy_Bridge-EP_server_processor.pdf](#) ^[2]

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