

# Intel India

[www.intel.com](http://www.intel.com)

Year of Incorporation: 1998

Category of Innovation: New Technology Advancement



**Company overview:** Main areas of operation include Software and Hardware Design and Development, Sales and Marketing, Venture Capital (a strategic investment initiative to support related technology enterprise), CSR and Education. Intel's investments in India to date have been over USD 1.7 billion.

**Innovation:** Intel has launched the world's first 6-core microprocessor—India's first CPU in September 2008. It was in June 2006 that the R&D team in Intel-India undertook the responsibility to design and deliver the Xeon CPU—Dunnington (DUN)—for the four-socket server platform—Caneland. The project, involved the integration of 3 dual-core CPUs with 3MB L2 cache each, with an uncore and its 16MB last level cache. Extensive/intrusive design innovations were required to interface the core-uncore pairs. At its September launch, DUN had delivered on all its landing zone requirements of performance, power, and compatibility.

## Impact of Innovation

**Internal:** Intel-India has been identified as a critical server development centre for Intel and Dunnington has directly affirmed the credibility of the Intel India Design team. Based on Dunnington's successful innovations, Intel Corporation has invested more capital in Intel India to develop the next generation server hardware CPU design and validation efforts. Dunnington has set the standard for several new design capabilities and execution processes for betterment of Quality, Time-to-Market while improving cost.

**External:** Intel has been able to deliver to customers its highest performing server microprocessor across multiple categories. At its launch, DUN has delivered on all its landing zone requirements of performance, power, and compatibility. Innovative features (core-pair symmetry, core+cache recovery) have enabled dramatic test time reduction and significantly (~12%) reduced product cost. The team has enabled the introduction of new SKUs (65w-6core, 50w-4core), that are highly optimized for perf/watt and extremely well suited to the rapid growing blade server market.

Customer speak:

**“It’s pretty bone-crushing performance.”**

**Jim Gargan, a Vice President in IBM’s x86 server unit**

