

ASYNCHRONOUS ADVANTAGES FOR WEB SERVERS

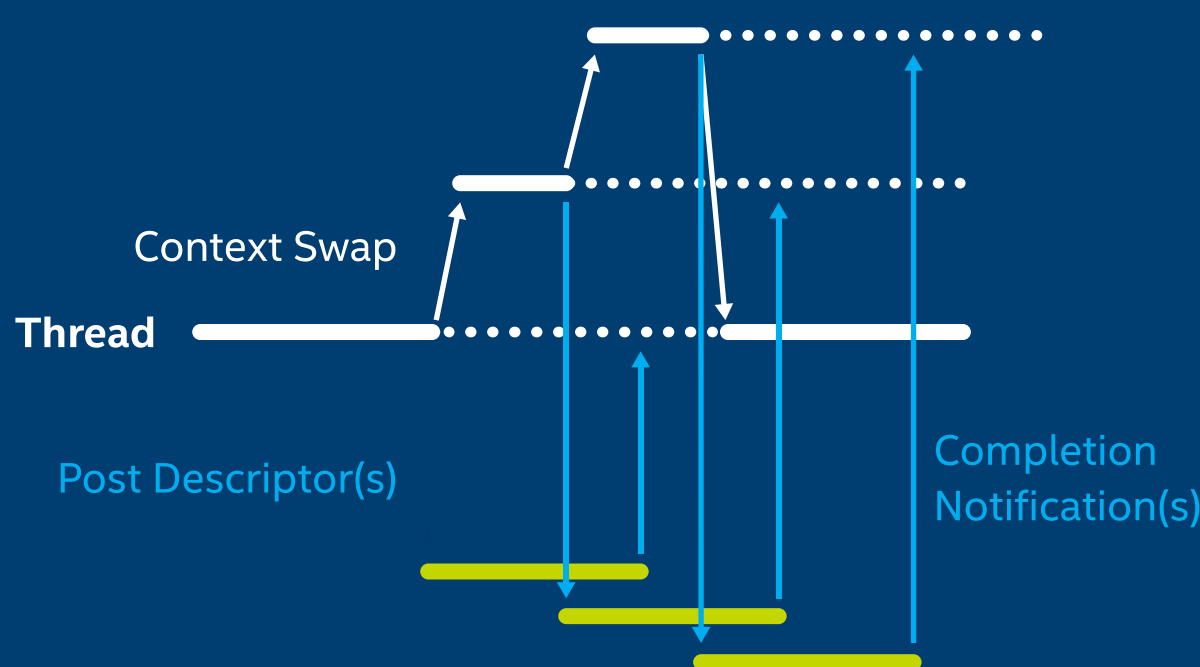
Realize multiple asynchronous advantages for your SDI environment with OpenSSL* 1.1.0, Intel® QuickAssist Technology, and NGINX* 1.10.

INCREASE PARALLELISM & THROUGHPUT

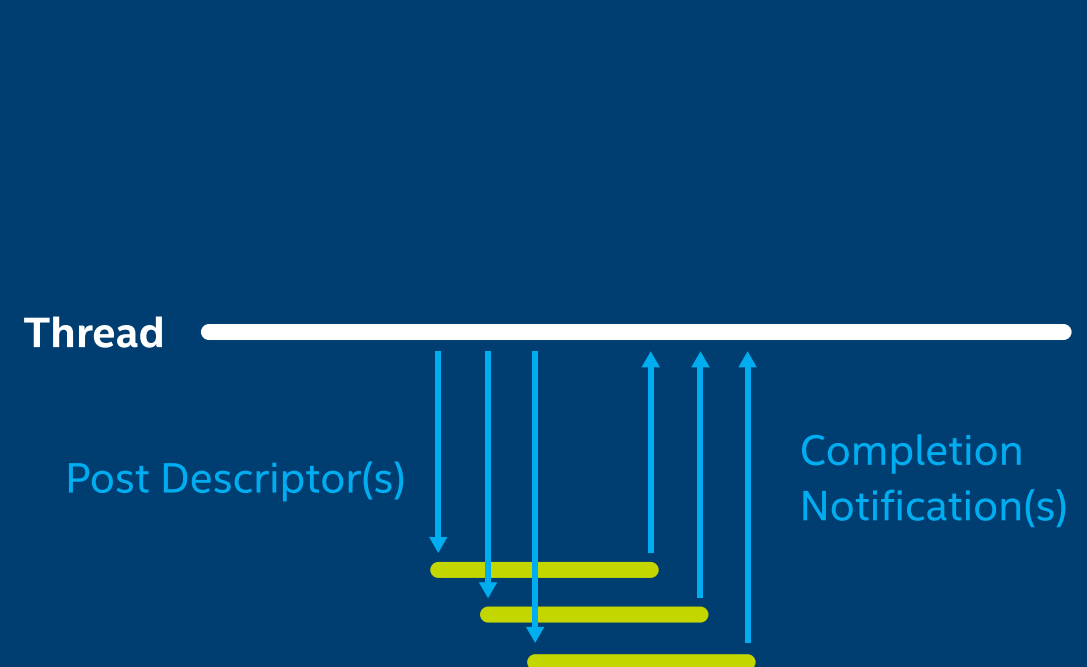
OpenSSL* is estimated to encrypt 66% of all active websites.¹ Use processors more efficiently and reduce hardware costs by using asynchronous OpenSSL to enable parallel management of jobs.

OpenSSL Job Management

Synchronous mode, multiple threads/processes



Asynchronous mode, single thread/process



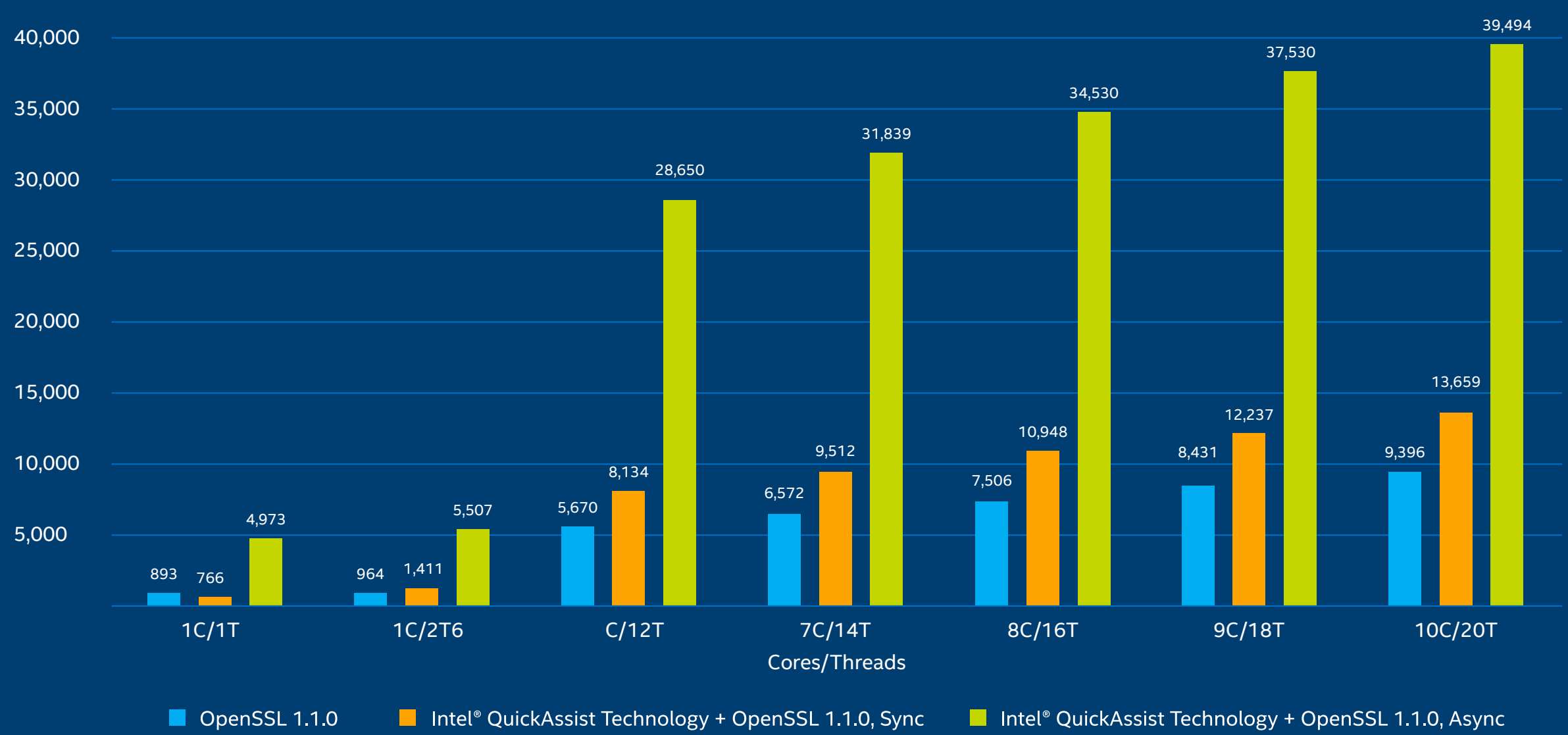
GET UP TO
5.6x MORE
CONNECTIONS PER SECOND²



BOOST SERVER EFFICIENCY

Asynchronous support in OpenSSL 1.1.0, combined with Intel® QuickAssist Technology and NGINX* 1.10 load balancing, increased connections 5.6x over software and 3.9x over sync invocation for the same configuration.²

TLS 1.2 RSA-2K – Connections per Second



The Intel® Xeon® processor E5-2600 v3 product family with Intel® Communications Chipset 8950 and Intel® QuickAssist Technology enhances SDI capabilities.

[Get started](#)

Software and workloads used in performance tests may have been optimized for performance only on Intel® microprocessors. Performance tests, such as SYSmark® and MobileMark®, are measured using specific computer systems, components, software, operations, and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information, visit intel.com/performance.

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Cost reduction scenarios described are intended as examples of how a given Intel-based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction.

1. "April 2014 Web Server Survey." Netcraft, April 2014.

2. Measured as of August 2016 with one Intel® Xeon® processor E5-2699 v3 (18C, 2.3GHz, 145W), HSW-C1, HT & Turbo Enabled, NUMA & COD mode, Linux® kernel: 3.11.10, gcc-4.8.3-7, BIOS GRNDCRB1.86B.0032.R02.1405090848, OpenSSL-1.1.0. Results have been estimated based on internal Intel analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance.

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