

# Big data analytics at maximum velocity.

Reduce big data job time by 97% in 4 steps.<sup>1,2</sup>

## 4-hour baseline process time ...

Baseline configuration:

- Intel® Xeon® 5600 processor series
- HDD
- 1 GbE connection
- Open-source Apache Hadoop



### Step 1

Upgrade from Intel® Xeon® 5600 processor series to

**Intel® Xeon® Processor E5 family**



### Step 2

Upgrade from traditional HDD to

**Intel® SSD 520 series**



### Step 3

Upgrade from 1 GbE to

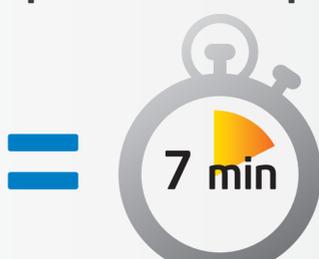
**Intel® Ethernet 10 Gigabit Converged Network Adapter**



### Step 4

Upgrade from open-source distribution of Apache Hadoop\* software to

**Intel® Distribution for Apache Hadoop\* software**



**reduced to 7 minutes process time**

Accelerate your path to big data insights with Intel technologies.

Read our white paper to learn how: <http://www.intel.com/content/www/us/en/big-data/big-data-apache-hadoop-technologies-for-results-whitepaper.html>

<sup>1</sup>TeraSort Benchmarks conducted by Intel in December 2012. Custom settings: mapreduce.reduce.tasks=100 and mapred.job.reuse.jvm.num.tasks=-1. For more information: <http://hadoop.apache.org/docs/current/api/org/apache/hadoop/examples/terasort/package-summary.htm>. Baseline worker node: SuperMicro SYS-1026T-URF 1U servers with two Intel® Xeon® processors X5690 @ 3.47 GHz, 48 GB RAM, 700 GB 7200 RPM SATA hard drives, Intel® Ethernet Server Adapter I350-T2, Apache Hadoop\* 1.0.3, Red Hat Enterprise Linux\* 6.3, Oracle Java\* 1.7.0\_05. Upgraded processor and base system in worker node: Dell PowerEdge\* R720 2U servers with two Intel® Xeon® processors E5-2690 @ 2.90 GHz, 128 GB RAM, Intel® Solid-State Drive 520 Series, Intel® Ethernet Converged Network Adapter X520-DA2, Intel® Distribution for Apache Hadoop\* software 2.1.1.

<sup>2</sup> 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 information go to [www.intel.com/performance](http://www.intel.com/performance).

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