

# What Does Digital Transformation Take?

The right combination of technologies



## SAP HANA® 2

The next-generation platform for digital transformation

### Build Innovative Applications and Analytics to Transform Your Business

 **Develop for tomorrow today**  
Easily build and deploy next-generation applications.

 **Discover more**  
Uncover deeper insights through machine learning using advanced data processing engines.

 **See farther**  
Access data wherever it resides, and manage it more effectively.

 **Run continuously**  
Manage your databases with availability, improved security and workload management, and easy administration.



The Intel® Xeon® processor E7 v4 family: the architecture to run SAP HANA® 2

### Access High, Security-Enabled, Reliable Performance to Run SAP HANA®: The Intel® Xeon® Processor E7-8800/4800 v4 Product Family



**Largest memory footprint** of any Intel® processor gives you a fast path to a high-performing, analytics-ready data center.



Up to **20 TB** per production system maximizes total cost of ownership (TCO) and your ability to innovate.



Up to **33% more memory** support for online transaction processing (OLTP) per processor than the Intel® Xeon® processor E7 v3 family.<sup>1</sup>



**1.41x better generational performance** for SAP HANA® than the Intel® Xeon® processor E7 v3 family.<sup>2</sup>

## SAP HANA® 2 and the Intel® Xeon® Processor E7-8800/4800 v4 Product Family Work Together for Your Business



**12+ years**

Intel and SAP have collaborated on the in-memory paradigm from its beginning.



**Connected**

Intel provided the original reference architecture for SAP HANA®.



**13**

Multiple OEMs offer appliances certified for SAP HANA® and powered by Intel® architecture.<sup>3</sup>

## Discover More on How to Transform Your Business Today

Learn more about powering SAP HANA® 2 with the Intel® Xeon® processor E7-8800/4800 v4 product family.

Try SAP HANA®, express edition for business innovation today with a **free trial download**.

Learn about SAP HANA features and read SAP HANA 2 FAQs.

<sup>1</sup> 33-percent gain based on memory support of up to 8 TB on systems powered by the Intel® Xeon® processor E7 v4 family compared to 6 TB on systems powered by the Intel® Xeon® processor E7 v3 family. For more information: SAP "Find Certified Appliances." June 2016. <https://global.sap.com/community/ebook/2014-09-02-hana-hardware/enEN/appliances.html>.

<sup>2</sup> Intel. "Turn Real-Time Analytics into Real Business Advantage: Leadership Performance." June 2016. [intel.com/content/www/us/en/benchmarks/server/xeon-e7-v4/xeon-e7-v4-world-record.html](http://intel.com/content/www/us/en/benchmarks/server/xeon-e7-v4/xeon-e7-v4-world-record.html). For more information, go to [intel.com/performance/datacenter](http://intel.com/performance/datacenter) and [http://global.sap.com/campaigns/benchmark/appbm\\_bwaml.epx](http://global.sap.com/campaigns/benchmark/appbm_bwaml.epx).

Configurations: submitted/published results as of 6 June 2016: 4-socket Intel® Xeon® processor E7-8890 v4 family: Dell PowerEdge R930\* with four Intel® Xeon® processors E7-8890 v4, 2.20 GHz (96 cores, 192 threads), 1.5 TB memory, running SUSE® Linux® Enterprise Server 11, SAP NetWeaver® 7.50, SAP® Business Warehouse Advanced Mixed Load (SAP® BW-AML), SAP HANA® 1.0. Source: SAP certification number 2016025, <http://global.sap.com/solutions/benchmark>. Score: 29,557 advanced query navigation steps/hour; 2 billion records. 4-socket Intel® Xeon® processor E7-8890 v3 family: Dell PowerEdge R930\* with four Intel® Xeon® processors E7-8890 v3, 2.50 GHz (72 cores, 144 threads), 1.5 TB memory, running SUSE® Linux® Enterprise Server 11, SAP NetWeaver® 7.50, SAP® BW-AML, SAP HANA® 1.0. Source: SAP certification number 2016019, <http://global.sap.com/solutions/benchmark>. Score: 23,690 advanced query navigation steps/hour; 2 billion records. For more information, go to [intel.com/performance/datacenter](http://intel.com/performance/datacenter).

<sup>3</sup> SAP. "Find Certified Appliances." June 2016. <https://global.sap.com/community/ebook/2014-09-02-hana-hardware/enEN/appliances.html>.

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.

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.

Tests document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Consult other sources of information to evaluate performance as you consider your purchase. For more complete information about performance and benchmark results, visit [intel.com/benchmarks](http://intel.com/benchmarks).

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at [intel.com](http://intel.com).

Intel disclaims all express and implied warranties, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement, as well as any warranty arising from course of performance, course of dealing, or usage in trade.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

Intel, the Intel logo, the Intel Inside logo, and Xeon are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <http://global12.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.

\*Other names and brands may be claimed as the property of others.

