



THE DATA-CENTRIC WORLD

OVER

FOR THE WORLD'S DATA

WAS CREATED IN THE LAST

2 YEARS

PO HAS BEEN

#datacentric



INDUSTRY MEGA TRENDS

PROLIFERATION OF **CLOUD COMPUTING**

GROWTH OF AI & ANALYTICS





NETWORK & EDGE





EXPLOSION IN DEMAND FOR COMPUTE

INCREASING COMPUTE DEMAND
DIVERSIFYING WORKLOAD NEEDS

ANALYTICS
HPC
MULTI-CLOUD & ORCHESTRATION

NETWORK

DATABASE

VIRTUALIZATION

SECURITY

COMPUTE DEMAND

2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

(intel

#datacentric

INVESTING IN OUR TRANSFORMATION











INTEL'S DATA-CENTRIC FUTURE

MOVE FASTER



(intel) SILICON PHOTONICS

(intel) OMNI-PATH FABRIC

STORE MORE





PROCESS EVERYTHING













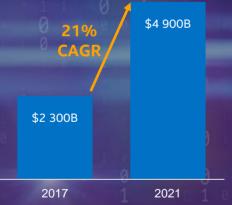
SOFTWARE & SYSTEM-LEVEL OPTIMIZED





CLOUD IS EVERYWHERE... GRO















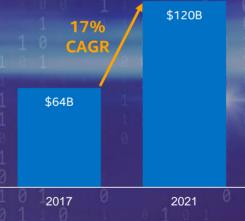




























CLOUDIFICATION OF THE NETWORK

DATA CENTER | CLOUD













THE NETWORK MOVES TO IA

2011

2013

2015

2017

2018

2019

DEFINED

OF COMMS SPS ADOPT NFV

MOVES TO LINUX FOUNDATION

at&t

CLOUD-NATIVE NETWORK

Rakuten



RE-ARCHITECTING THE STORAGE TIER

BIG MEMORY BIGGER INSIGHTS





DRAM HOT TIER



SSD **WARM TIER**

INTEL® 3D NAND SSD

HDD / TAPE





INTEL® OPTANE™ DC PERSISTENT MEMORY

MEMORY INNOVATION 10 YEARS IN THE MAKING

ECOSYSTEM SUPPORT

36TB 8 SOCKET SYSTEM

BW ON HANA RECORDS

NEW WORLD
RECORD

SOLUTION OPTIMIZATION

TECHNOLOGY INNOVATIONS



SLA

redis

MEETING SUB-ms

Performance results are based on testing: 8X (2/19/2019), and may not reflect all publicly available security updates. No product can be absolutely secure. See configuration disclosure for details. 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 content of purposes, including the performance of that product when combined with other products. For more information are to prove the performance tests to assist you in fully evaluating your



INTEL® OPTANE™ DC PERSISTENT MEMORY DELIVERS....

EFFICIENT IN-MEMORY DATABASES



35% LOWER COST PER DB TERARYTE

DENSER HYPER-CONVERGED INFRASTRUCTURE

vmware

33% MORE VSAN VMS PER NODE

REDUCED IO BOTTLENECKS



FASTER ANALYTICS INSIGHTS



CONSOLIDATED INFRASTRUCTURE



50 % NODE SQL Server

LOWER TCO



UP 34% LOWER MEMORY COST



MOMENTUM: INTEL® OPTANE™ DC PERSISTENT MEMORY





SAP + Intel Joint Innovation Center

"Intel, a great company, and SAP have entered into a partnership to optimize the features and technologies in SAP HANA for Intel Xeon Scalable processors and Intel Optane DC persistent memory. This will deliver customers' industry leading performance and TCO advantage for SAP S/4 HANA."

Bill McDermott
Chief Executive Officer
SAP AG





2ND GENERATION INTEL® XEON® SCALABLE PROCESSORS

>50
STANDARD SKIIS

DOZENSCHISTOM SKILIS

8₁₀56

4.5TB

MEMORY PER SOCKET

Tro 8

INTEL® OPTANE™ DC PERSISTENT MEMORY

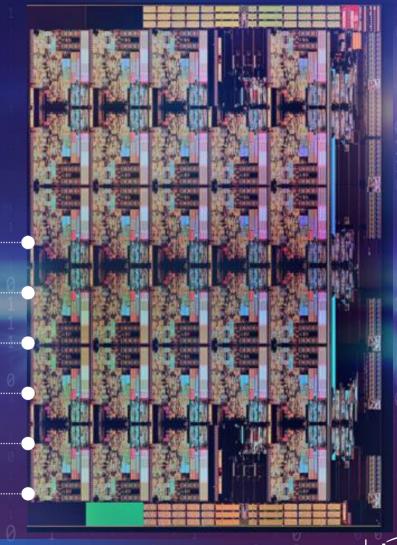
INTEL® DEEP LEARNING BOOST

INTEL® SPEED SELECT TECHNOLOGY

NETWORK-OPTIMIZED SKUS

CLOUD-OPTIMIZED SKUS

SECURITY MITIGATIONS







BUSINESS ANALYTICS

9242 VS 8160

LS-DYNA

BUSINESS ANALYTICS

9242 VS 8160



BUSINESS ANALYTICS

8280+OPTANE PM VS DRAM

WORLD RECORD + REAL WORK PERFORMANCE LEADERSH



BUSINESS ANALYTICS

8280+OPTANE PM VS DRAM



CLOUD MANAGEMENT

8260+OPTANE PM VS DRAM

GBASE

IN-MEMORY DATABASE

8260+OPTANE PM VS DRAM



8260 DLBOOST VS FP32



BUSINESS ANALYTICS

8260 DLBOOST VS FP32

MAXIMIZING MAINSTREAM SKUS

VNETWORK GATEWAY

NOKIA

5218N+QAT VS 5118

Intel® Xeon® Platinum 9200 Processor



2nd Gen Intel® Xeon® Scalable Processor

BUSINESS ANALYTICS

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