HPE PROLIANT GEN10 AND GEN10 PLUS WITH AMD EPYC™

50

Energy Efficiency
11

Big Data & Analytics
13

SDI & Server-side Java
20

Cloud & Virtualization
6

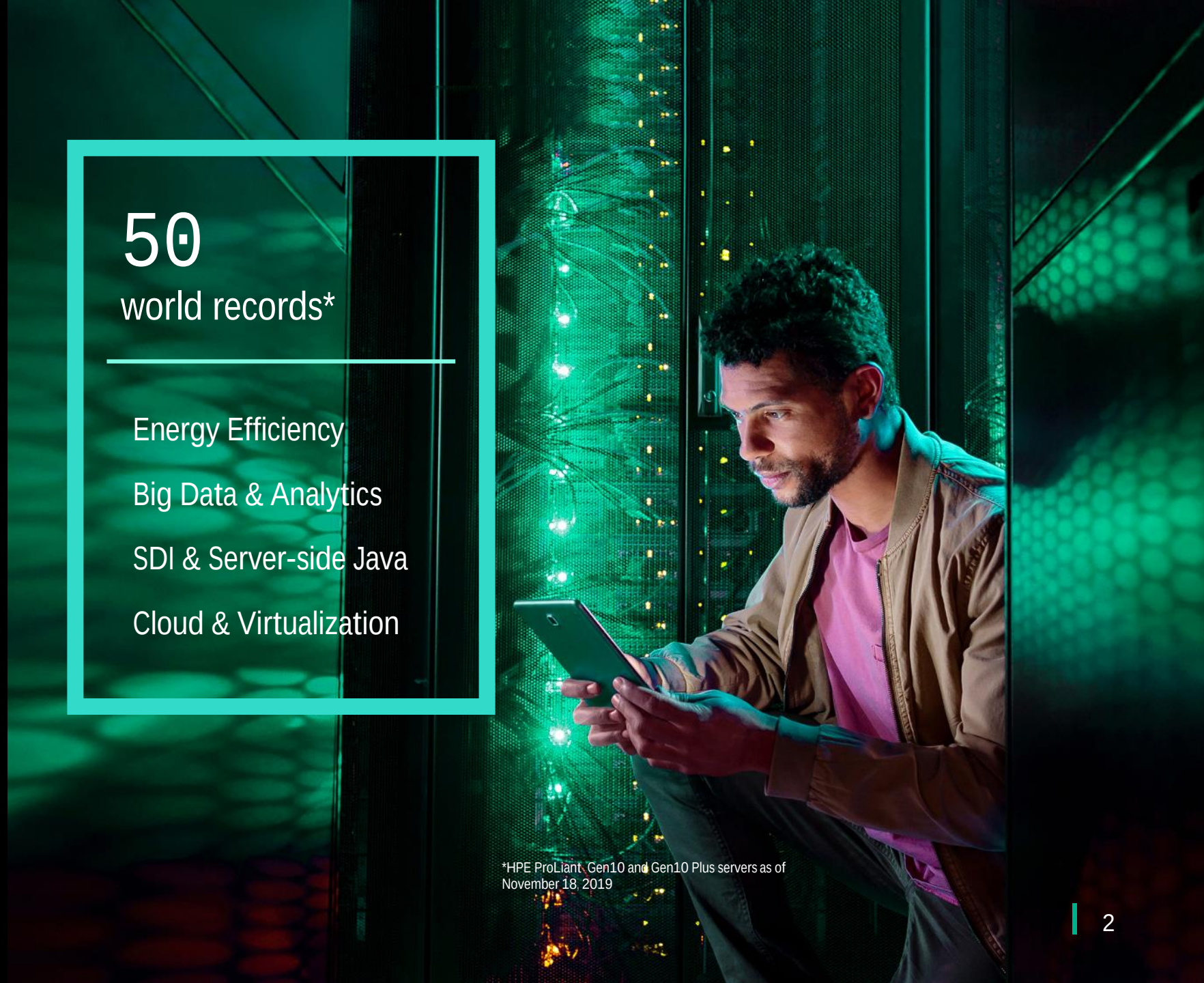
World Records

HPE PROLIANT GEN10 AND GEN10 PLUS WITH AMD EPYC™

LEADERSHIP IN WORKLOAD OPTIMIZED PERFORMANCE

50
world records*

- Energy Efficiency
- Big Data & Analytics
- SDI & Server-side Java
- Cloud & Virtualization



*HPE ProLiant Gen10 and Gen10 Plus servers as of November 18, 2019

HPE PROLIANT DL385 GEN10

50
World Records

ENERGY EFFICENCY – 11 WORLD RECORDS

Segment	Benchmark	Description	Significance	Platform
Energy Efficiency	2S SPECpower_ssj2008	Server-side Java energy efficiency	2-socket world record on Linux®	DL385 Gen10
Energy Efficiency	2S SPECrate2017_fp_energy_base	Floating Point energy efficiency	2-socket world record	DL385 Gen10
Energy Efficiency	2S SPECrate2017_fp_energy_peak	Floating Point energy efficiency	2-socket world record	DL385 Gen10
Energy Efficiency	2S SPECrate2017_int_energy_base	Interger energy efficiency	2-socket world record	DL385 Gen10
Energy Efficiency	2S SPECrate2017_int_energy_peak	Interger energy efficiency	2-socket world record	DL385 Gen10
Energy Efficiency	2S SPECspeed2017_fp_energy_base	Floating Point energy efficiency	2-socket world record	DL385 Gen10
Energy Efficiency	2S SPECspeed2017_fp_energy_peak	Floating Point energy efficiency	2-socket world record	DL385 Gen10
Energy Efficiency	2S SPECspeed2017_int_energy_base	Interger energy efficiency	2-socket world record	DL385 Gen10
Energy Efficiency	2S SPECspeed2017_int_energy_peak	Interger energy efficiency	2-socket world record	DL385 Gen10
Energy Efficiency	1S SPECpower_ssj2008	Server-side Java energy efficiency	1-socket (1U) world record on Windows®	DL325 Gen10
Energy Efficiency	2S SPECpower_ssj2008	Server-side Java energy efficiency	2-socket (2U) world record on Linux®	DL385 Gen10

HPE PROLIANT DL325 GEN10

50
World Records

BIG DATA ANALYTICS – 13 WORLD RECORDS

Segment	Benchmark	Description	Significance	Platform
Big Data/Analytics	1STPCx-HS @ 10TB	Big data analytics	Overall 10TB world record	DL325 Gen10
Big Data/Analytics	1STPCx-HS @ 10TB	Big data analytics	1-socket 10TB world record	DL325 Gen10
Big Data/Analytics	1STPCx-HS @ 10TB	Big data analytics	Overall price-performance 10TB world record	DL325 Gen10
Big Data/Analytics	1STPCx-HS @ 30TB	Big data analytics	Overall 30TB world record	DL325 Gen10
Big Data/Analytics	1STPCx-HS @ 30TB	Big data analytics	1-socket 30TB world record	DL325 Gen10
Big Data/Analytics	1STPCx-HS @ 30TB	Big data analytics	Overall price-performance 30TB world record	DL325 Gen10
Big Data/Analytics	1S TPC-H @ 1TB	Decision support system with ad-hoc queries	1-socket world record (non-clustered)	DL325 Gen10
Big Data/Analytics	1S TPC-H @ 1TB	Decision support system with ad-hoc queries	Overall price-performance world record (non-clustered)	DL325 Gen10
Big Data/Analytics	1S TPC-H @ 1TB 4-node	Decision support system with ad-hoc queries	Overall price-performance world record (tie)	DL325 Gen10
Big Data/Analytics	1S TPC-H @ 1TB 4-node	Decision support system with ad-hoc queries	1-socket, 4-node cluster world record (historical)	DL325 Gen10
Big Data/Analytics	1S TPC-H @ 1TB 8-node	Decision support system with ad-hoc queries	Overall world record	DL325 Gen10
Big Data/Analytics	1S TPC-H @ 1TB 8-node	Decision support system with ad-hoc queries	Overall price-performance world record (tie)	DL325 Gen10
Big Data/Analytics	1S TPC-H @ 1TB 8-node	Decision support system with ad-hoc queries	1-socket, 8-node cluster world record (historical)	DL325 Gen10

HPE PROLIANT GEN10 AND GEN10 PLUS

50
World Records

SDI & SERVER SIDE JAVA – 20 WORLD RECORDS

Segment	Benchmark	Description	Significance	Platform
SDI/Enterprise	2S SAP SD 2-tier	Enterprise Resource Planning (ERP)	2-socket world record on Windows®	DL385 Gen10 Plus
Server-Side Java	1S SPECjbb2015-Composite Max	Supermarket Java apps - single JVM/1-host max	1-socket world record	DL325 Gen10
Server-Side Java	1S SPECjbb2015-Composite Max	Supermarket Java apps - single JVM/1-host max	1-socket world record on Linux®	DL325 Gen10
Server-Side Java	1S SPECjbb2015-Composite Critical	Supermarket Java apps - single JVM/1-host	1-socket world record	DL325 Gen10
Server-Side Java	1S SPECjbb2015-Composite Critical	Supermarket Java apps - single JVM/1-host	1-socket world record on Linux®	DL325 Gen10
Server-Side Java	1S SPECjbb2015-MultiJVM Max	Supermarket Java apps - multiple JVMs/1-host max	1-socket world record	DL325 Gen10
Server-Side Java	1S SPECjbb2015-MultiJVM Max	Supermarket Java apps - multiple JVMs/1-host max	1-socket world record on Linux®	DL325 Gen10
Server-Side Java	1S SPECjbb2015-MultiJVM Max	Supermarket Java apps - multiple JVMs/1-host max	1-socket world record on Windows®	DL325 Gen10 Plus
Server-Side Java	1S SPECjbb2015-Distributed (1n) Max	Supermarket Java apps - distributed JVMs/1-host max	1-socket world record	DL325 Gen10
Server-Side Java	1S SPECjbb2015-Distributed (1n) Max	Supermarket Java apps - distributed JVMs/1-host max	1-socket world record on Linux®	DL325 Gen10
Server-Side Java	1S SPECjbb2015-Distributed (1n) Max	Supermarket Java apps - distributed JVMs/1-host max	1-socket world record on Windows®	DL325 Gen10 Plus
Server-Side Java	1S SPECjbb2015-Distributed (1n) Critical	Supermarket Java apps - distributed JVMs/1-host max	1-socket world record on Windows®	DL325 Gen10 Plus
Server-Side Java	2S SPECjbb2015-MultiJVM Max	Supermarket Java apps - multiple JVMs/1-host max	2-socket world record on Windows®	DL385 Gen10 Plus
Server-Side Java	2S SPECjbb2015-MultiJVM Critical	Supermarket Java apps - multiple JVMs/1-host max	2-socket world record on Windows®	DL385 Gen10 Plus
Server-Side Java	2S SPECjbb2015-Distributed (1n) Max	Supermarket Java apps - multiple JVMs/1-host max	2-socket world record	DL385 Gen10
Server-Side Java	2S SPECjbb2015-Distributed (1n) Max	Supermarket Java apps - multiple JVMs/1-host max	2-socket world record on Linux®	DL385 Gen10
Server-Side Java	2S SPECjbb2015-Distributed (1n) Max	Supermarket Java apps - multiple JVMs/1-host max	2-socket world record on Windows®	DL385 Gen10 Plus
Server-Side Java	2S SPECjbb2015-Distributed (1n) Critical	Supermarket Java apps - multiple JVMs/1-host max	2-socket world record	DL385 Gen10
Server-Side Java	2S SPECjbb2015-Distributed (1n) Critical	Supermarket Java apps - distributed JVMs/1-host	2-socket world record on Linux®	DL385 Gen10
Server-Side Java	2S SPECjbb2015-Distributed (1n) Critical	Supermarket Java apps - distributed JVMs/1-host	2-socket world record on Windows®	DL385 Gen10 Plus

HPE PROLIANT GEN10 AND GEN10 PLUS

50
World Records

CLOUD & VIRTUALIZATION – 6 WORLD RECORDS

Segment	Benchmark	Description	Significance	Platform
Cloud & Virtualization	2S TPCx-V	Database virtualization	Overall world record (replaces 1S EPYC 7551P)	DL385 Gen10
Cloud & Virtualization	2S TPCx-V	Database virtualization	2-socket world record	DL385 Gen10
Cloud & Virtualization	2S SPECvirt_sc2013	Virtualized server consolidation	2-socket world record	DL385 Gen10
Cloud & Virtualization	1S SPECvirt_sc2013	Virtualized server consolidation	1-socket world record	DL325 Gen10 Plus
Cloud & Virtualization	2S VMmark 3.1 classic	Web-scale multi-server virtualization	2-host, matched pair 2-socket world record	DL385 Gen10
Cloud & Virtualization	1S VMmark 3.x vSAN	Web-scale multi-server virtualization with vSAN storage	1-socket, 4-host world vSAN record	DL325 Gen10

a50000113ENW, December 2019 Rev. 1