HPE ProLiant GEN10 AND GEN10 PLUS WITH AMD EPYC™

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
## ENERGY EFFICIENCY - 11 WORLD RECORDS

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<th>Benchmark</th>
<th>Description</th>
<th>Significance</th>
<th>Platform</th>
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<tr>
<td>Energy Efficiency</td>
<td>2S SPECpower_ssj2008</td>
<td>Server-side Java energy efficiency</td>
<td>2-socket world record on Linux®</td>
<td>DL385 Gen10</td>
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<tr>
<td>Energy Efficiency</td>
<td>2S SPECrate2017_fp_energy_base</td>
<td>Floating Point energy efficiency</td>
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<td>Energy Efficiency</td>
<td>2S SPECrate2017_fp_energy_peak</td>
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<td>Energy Efficiency</td>
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<td>Integer energy efficiency</td>
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<td>Energy Efficiency</td>
<td>1S SPECpower_ssj2008</td>
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<td>1-socket (1U) world record on Windows®</td>
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<td>2S SPECpower_ssj2008</td>
<td>Server-side Java energy efficiency</td>
<td>2-socket (2U) world record on Linux®</td>
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<tbody>
<tr>
<td>Big Data/Analytics</td>
<td>1STPCx-HS @ 10TB</td>
<td>Big data analytics</td>
<td>Overall 10TB world record</td>
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<tr>
<td>Big Data/Analytics</td>
<td>1STPCx-HS @ 10TB</td>
<td>Big data analytics</td>
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<tr>
<td>Big Data/Analytics</td>
<td>1STPCx-HS @ 10TB</td>
<td>Big data analytics</td>
<td>Overall price-performance 10TB world record</td>
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<td>Big Data/Analytics</td>
<td>1STPCx-HS @ 30TB</td>
<td>Big data analytics</td>
<td>Overall 30TB world record</td>
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<td>Big Data/Analytics</td>
<td>1STPCx-HS @ 30TB</td>
<td>Big data analytics</td>
<td>1-socket 30TB world record</td>
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<tr>
<td>Big Data/Analytics</td>
<td>1STPC-H @ 1TB</td>
<td>Decision support system with ad-hoc queries</td>
<td>1-socket world record (non-clustered)</td>
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<tr>
<td>Big Data/Analytics</td>
<td>1STPC-H @ 1TB 4-node</td>
<td>Decision support system with ad-hoc queries</td>
<td>Overall price-performance world record (tie)</td>
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<td>Big Data/Analytics</td>
<td>1STPC-H @ 1TB 4-node</td>
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<tr>
<td>Big Data/Analytics</td>
<td>1STPC-H @ 1TB 8-node</td>
<td>Decision support system with ad-hoc queries</td>
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<td>Big Data/Analytics</td>
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<td>1STPC-H @ 1TB 8-node</td>
<td>Decision support system with ad-hoc queries</td>
<td>1-socket, 8-node cluster world record (historical)</td>
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**HPE ProLiant DL325 Gen10**

50 World Records
## HPE ProLiant Gen10 and Gen10 Plus

### SDI & Server Side Java - 20 World Records

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<tr>
<td>SDI/Enterprise</td>
<td>2S SAP SD 2-tier</td>
<td>Enterprise Resource Planning (ERP)</td>
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<tr>
<td>Server-Side Java</td>
<td>1S SPECjbb2015-Composite Max</td>
<td>Supermarket Java apps - single JVM/1-host max</td>
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<td>Server-Side Java</td>
<td>1S SPECjbb2015-MultiJ VM Max</td>
<td>Supermarket Java apps - multiple JVMs/1-host max</td>
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<tr>
<td>Cloud &amp; Virtualization</td>
<td>2S TPCx-V</td>
<td>Database virtualization</td>
<td>Overall world record (replaces 1S EPYC 7551P)</td>
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<tr>
<td>Cloud &amp; Virtualization</td>
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<td>Database virtualization</td>
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<tr>
<td>Cloud &amp; Virtualization</td>
<td>2S SPECvirt_sc2013</td>
<td>Virtualized server consolidation</td>
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<td>Cloud &amp; Virtualization</td>
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<td>Virtualized server consolidation</td>
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<tr>
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<td>Web-scale multi-server virtualization</td>
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<tr>
<td>Cloud &amp; Virtualization</td>
<td>1S VMmark 3.x vSAN</td>
<td>Web-scale multi-server virtualization with vSAN storage</td>
<td>1-socket, 4-host world vSAN record</td>
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