






HP Integrity servers

Leading balanced performance



Workload	HP system	Benchmark	Beats
Java	HP Integrity rx6600  #1	32-core SPECjAppServer2004	IBM p5 550 1.9 GHz POWER5+
	HP Integrity rx6600	8-core SPECjbb2005	IBM p5 550Q 1.65 GHz POWER5+
Transactional	HP Integrity rx6600  #1	4-core TPC-C	IBM p5 570 1.9 GHz POWER5
Data warehouse	HP Integrity rx8640  #1	16-core TPC-H @1000GB	IBM p5 570 1.9 GHz POWER5
Compute intensive—integer	HP Integrity Superdome  #1	Max system SPECint_rate2000	IBM p5 595 2.3 GHz POWER5+
Compute intensive—floating point	HP Integrity Superdome  #1	Max system SPECfp_rate2000	IBM p5 595 2.3 GHz POWER5+

Results as of 10/18/06

Substantiation: See the slide labeled "Benchmark data"

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Reference: TPC-C, TPC-H are trademarks of the Transaction Performance Processing Council.



Benchmark Data

32-core SPECjAppServer2004: HP Integrity rx6600 Server, 1.6 GHz 24M Intel® Itanium® 2, 16 chips/32 cores/2 cores per chip, 4 nodes, **4,915.49 JOBS**. IBM p5 550, 1.9 GHz POWER5+, 16 chips/32 cores/2 cores per chip, 8 nodes, **2921.48 JOBS**. Results as of 10/18/06 see: www.spec.org

8-core SPECjbb2005: HP Integrity rx6600 Server, 1.6 GHz 24M Intel Itanium 2, 4 chips/8 cores/ 2 cores per chip, No HW threading, **138,382 BOPs**, 69,191 BOPS/JVM. IBM p5 550Q, 1.65 GHz POWER5+, 4 chips/8 cores/ 2 cores per chip, HW threading enabled , **127,851**, 15,981 BOPS/JVM. Results as of 10/18/06 see: www.spec.org

4-core TPC-C: HP Integrity rx6600 Server, 1.6 GHz 24M Intel Itanium 2, 2 processors/4 cores/8 threads, **230,569 tpmC**, **\$2.63 USD/tpmC**, availability **12/1/2006**. IBM p5 570, 1.90 GHz POWER5, 2 processors/4 cores/8 threads, **203,440 tpmC**, **\$3.93 USD/tpmC**, availability **10/17/2005**. Results as of 10/18/06 see: www.tpc.org

16-core TPC-H @ 1000 GB: HP Integrity rx8640 Server, 1.6 GHz 24M Intel Itanium2, 8 processors/16 cores/32 threads, **27,144 QphH @ 1000GB**, **36.00 US \$ per QphH @ 1000GB**, availability **01/01/2007**. IBM p5 570, 1.90 GHz POWER5, 8 processors/16 cores/32 threads, **26,156 QphH @ 1000GB**, **53.43 US \$ per QphH @ 1000GB**, availability **12/15/2004**. Results as of 10/18/06 see: www.tpc.org

Max system SPECint_rate2000: HP Integrity Superdome, 1.6 GHz 24M Intel Itanium 2, 64 chips/128 cores/2 cores per chip, Hyper-Threading Technology disabled, SPECint_rate2000: **2,367**. IBM p5 595, 2.3 GHz POWER5+, 32 chips/64 cores/ 2 chips per core. SMT on, SPECint_rate2000: **1,513**. Results as of 10/18/06 see: www.spec.org

Max system SPECfp_rate2000: HP Integrity Superdome, 1.6 GHz 24M Intel Itanium 2, 64 chips/128 cores/2 cores per chip, Hyper-Threading Technology disabled, SPECfp_rate2000: **2,837**. IBM p5 595, 2.3 GHz POWER5+, 32 chips/64 cores/2 chips per core, SMT on, SPECfp_rate2000: **2,406**. Results as of 10/18/06 see: www.spec.org

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