



ABOUT IDEAS INTERNATIONAL



Providing IT research, insight, analysis and tools to many large technology vendors and blue-chip global IT users since 1986.

FREE ADVISORY

IDEAS provides a set of free IT information services. Start your IT equipment search here.



IT BUYERS

IDEAS offers a host of products and services for buyers of IT equipment to help them assess, plan, and manage their own internal IT resources.



IT SELLERS

For sellers of IT products and services, IDEAS can help with competitive intelligence needs.



www.ideasinternational.com

HP - ProLiant DL380 G7

SPECIFICATIONS



Image courtesy of HP

| | |
|------------------|------------------------------------|
| Product Type | Entry-Level Server |
| Processor Family | Xeon |
| Max Chips | 2 |
| Max Cores | 12 |
| Operating System | Red Hat Linux, SUSE Linux, Windows |
| Memory (GB) | 1 - 384 |
| Slots | 6 |
| Form Factor | Rack |

PRODUCT DESCRIPTION

The HP ProLiant DL380 G7 is a 2U rack mount server supporting up to two Xeon 5500 or 5600 series processor chips. This server features 18 DIMM slots for memory expansion as well as support for eight small form factor (SFF) hot-plug SAS/SATA disk drives plus an extra eight SFF or six LFF drives using an optional drive cage. With optional integrated hypervisor features, HP believe that the DL380 G7 would be suited to environments such as space constrained data centers as well as small to medium businesses that would benefit from remote server management.

PRODUCT DESCRIPTION

TECHNICAL DESCRIPTION

The DL380 G7 uses PC3-8500R DDR3 Registered (RDIMM) memory, operating at 800MHz when fully populated at 2 DIMMs per Channel in 12 slots, or PC3-10600E DDR3 Unbuffered (UDIMM) memory, operating at 1066MHz when fully populated at 2 DIMMs per Channel in 12 slots.

The system has eight hot-plug SFF hard drive bays and may be configured with either SAS or SATA hard drives, using either one of the Smart Array P410i/Zero/256MB/512MB Storage Controllers with RAID 0, 1, 1+0, and 5, 5+0 depending on models.

Internally, there are six PCI Express slots comprising of five x8 HL/FH slots, and one x16 FL/FH slot. With the use of an optional I/O riser card, the I/O may be converted into a 64-bit/133MHz PCI-X slot. This system comes standard with two embedded NC382i Dual Port Multifunction Gigabit Server Adapters with TCP/IP Offload Engine.

PACKAGING

605878-005 - S-Buy ProLiant DL380 G7 Base Rackmount Model (2U) with 2 x 2.93GHz Xeon X5670 processors (2 chips, 12 cores) with 12MB L3 cache, 24GB (6 x 4GB) PC3-10600R Registered DIMMs, 6 x LFF open bay disk drives (diskless), Smart Array P410i/1GB FBWC controller, 2 x embedded NC382i Dual Port Multifunction Gigabit Server Adapters, 2 x 750W hot-plug power supplies

583914-B21 - ProLiant DL380 G7 Factory Integrated SFF CTO Rackmount Model (2U) with no processor, no memory, open bay (diskless) with 8 SFF drive cage, Smart Array P410i controller, 2 x embedded NC382i Dual Port Multifunction Gigabit Server Adapters, no power supply, Integrated Lights-Out 3 (iLO 3)

583917-B21 - ProLiant DL380 G7 Factory Integrated LFF CTO Rackmount Model (2U) with no processor, no memory, open bay (diskless) with 6 LFF drive cage, Smart Array P410i controller, 2 x embedded NC382i Dual Port Multifunction Gigabit Server Adapters, no power supply, Integrated Lights-Out 3 (iLO 3)

583968-001 - ProLiant DL380 G7 Entry Rackmount Model (2U) with 1 x 2.13GHz Xeon E5506 processor (1 chip, 4 cores) with 4MB L3, 4GB (2 x 2GB) PC3-10600R Registered DDR3 memory, open bay (diskless) with 8 SFF drive cage, Smart Array P410i/Zero memory controller, 2 x embedded NC382i Dual Port Multifunction Gigabit Server Adapters, 1 x 460W hot-plug power supply, Integrated Lights-Out 3 (iLO 3), NBD On-site 3yr Parts/Labor warranty

633408-001 - ProLiant DL380 G7 Entry Rackmount Model (2U) with 1 x 2.13GHz Xeon E5606 processor (1 chip, 4 cores) with 8MB L3 cache, 4GB (1 x 4GB) PC3-10600R Registered DDR3 memory, open bay (diskless) with 8 SFF drive cage, Smart Array P410i/Zero memory controller, 2 x embedded NC382i Dual Port Multifunction Gigabit Server Adapters, 1 x 460W hot-plug power supply, Integrated Lights-Out 3 (iLO 3), NBD On-site 3yr Parts/Labor warranty

PRICING

Detailed bill of materials part level pricing is a feature of IDEAS subscription services

- **IDEAS Advantage** for IT Buyers
- **Competitive Profiles** for IT Sellers

PERFORMANCE OVERVIEW

| | |
|---|-----------|
| TPC-C - On-line transaction processing | 2 Results |
| TPC-E - On-line transaction processing | 2 Results |
| TPC-H (100GB) - Ad-hoc, decision support | 2 Results |

| | |
|--|------------|
| SPECint2006 - Compute-intensive integer | 10 Results |
| SPECint2006rate - Compute-intensive integer | 32 Results |
| SPECfp2006 - Compute-intensive floating point | 9 Results |
| SPECfp2006rate - Compute-intensive floating point | 28 Results |
| SPECpower_ssj2008 - Power and Performance | 2 Results |
| SPECvirt_sc2010 - Server Virtualization Performance | 1 Result |
| SAP R/3 SD 2-Tier - SAP R/3 (Sales & Distribution) Standard Application Benchmark | 4 Results |

PERFORMANCE DETAIL

TPC-C - On-line transaction processing

| Result Date | Chips | Cores | tpmC | \$/tpmC | W/KtpmC | Database | Status |
|-------------|-------|-------|--------------|---------|---------|--|---------|
| 5-May-11 | 2 | 12 | 1,024,380.00 | 0.65 | | Microsoft SQL Server 2005 Enterprise x64 Edition (SP3) | Current |
| 11-May-10 | 2 | 12 | 803,068.00 | 0.68 | | Microsoft SQL Server 2005 Enterprise x64 Edition (SP3) | Current |

TPC-E - On-line transaction processing

| Result Date | Chips | Cores | tpsE | \$/tpsE | W/tpsE | Database | Initial Database Size (GB) | Status |
|-------------|-------|-------|----------|---------|--------|---|----------------------------|---------|
| 5-May-11 | 2 | 12 | 1,284.14 | 250.00 | | Microsoft SQL Server 2008 R2 Enterprise Edition | 5622 | Current |
| 11-May-10 | 2 | 12 | 1,110.11 | 294.00 | | Microsoft SQL Server 2008 R2 Enterprise Edition | 4761 | Current |

TPC-H (100GB) - Ad-hoc, decision support

| Result Date | Chips | Cores | QphH | \$/QphH | W/KQphH | QppH | QthH | Database | Status |
|-------------|-------|-------|------------|---------|---------|------------|------------|---|---------|
| 9-Feb-11 | 2 | 12 | 251,561.70 | 0.38 | | 257,142.90 | 246,101.70 | VectorWise 1.5 | Current |
| 2-Jul-10 | 2 | 12 | 73,974.60 | 0.58 | 5.93 | 99,426.30 | 55,038.20 | Microsoft SQL Server 2008 R2 Enterprise Edition | Current |

SPECint2006 - Compute-intensive integer

| Result Date | Processor | # Chips | # Cores | Result | Baseline | # Cores Per Chip | Status |
|-------------|------------------|---------|---------|--------|----------|------------------|---------|
| Mar-11 | Intel Xeon X5687 | 2 | 8 | 46.4 | 44.1 | 4 | Current |
| Feb-11 | Intel Xeon X5690 | 2 | 12 | 44.8 | 42.8 | 6 | Current |
| Mar-11 | Intel Xeon X5672 | 2 | 8 | 43.7 | 41.5 | 4 | Current |
| Mar-11 | Intel Xeon X5675 | 2 | 12 | 42.1 | 40.2 | 6 | Current |
| Jan-12 | Intel Xeon E5645 | 2 | 12 | 38.8 | 36.4 | 6 | Current |

| | | | | | | |
|--------|--------------------|----|------|------|---|---------|
| Jan-12 | Intel Xeon E5645 2 | 12 | 38.8 | 36.4 | 6 | Current |
| Mar-11 | Intel Xeon X5647 2 | 8 | 38.3 | 36.4 | 4 | Current |
| Mar-11 | Intel Xeon E5645 2 | 12 | 32.7 | 31.3 | 6 | Current |
| Mar-11 | Intel Xeon E5607 2 | 8 | 28.1 | 26.8 | 4 | Current |
| Mar-11 | Intel Xeon E5603 2 | 8 | 20.0 | 19.1 | 4 | Current |

SPECint2006rate - Compute-intensive integer

| Result Date | Processor | # Chips | # Cores | Result | Baseline | # Cores Per Chip | Status |
|-------------|--------------------|---------|---------|--------|----------|------------------|--------|
| Dec-11 | Intel Xeon X5690 2 | 12 | 435.0 | 421.0 | 6 | Current | |
| Dec-11 | Intel Xeon X5680 2 | 12 | 426.0 | 410.0 | 6 | Current | |
| Feb-11 | Intel Xeon X5690 2 | 12 | 418.0 | 388.0 | 6 | Current | |
| Dec-11 | Intel Xeon X5675 2 | 12 | 407.0 | 392.0 | 6 | Current | |
| Dec-11 | Intel Xeon X5670 2 | 12 | 396.0 | 381.0 | 6 | Current | |
| Dec-11 | Intel Xeon X5660 2 | 12 | 387.0 | 372.0 | 6 | Current | |
| Dec-11 | Intel Xeon X5650 2 | 12 | 381.0 | 364.0 | 6 | Current | |
| May-10 | Intel Xeon X5680 2 | 12 | 376.0 | 352.0 | 6 | Current | |
| Dec-11 | Intel Xeon X5687 2 | 8 | 354.0 | 335.0 | 4 | Current | |
| Dec-11 | Intel Xeon X5677 2 | 8 | 345.0 | 326.0 | 4 | Current | |
| Nov-10 | Intel Xeon X5650 2 | 12 | 338.0 | 317.0 | 6 | Current | |
| Dec-11 | Intel Xeon E5649 2 | 12 | 335.0 | 322.0 | 6 | Current | |
| Dec-11 | Intel Xeon X5672 2 | 8 | 335.0 | 316.0 | 4 | Current | |
| Dec-11 | Intel Xeon E5645 2 | 12 | 332.0 | 318.0 | 6 | Current | |
| Mar-11 | Intel Xeon X5687 2 | 8 | 326.0 | 307.0 | 4 | Current | |
| Mar-11 | Intel Xeon E5649 2 | 12 | 325.0 | 303.0 | 6 | Current | |
| Dec-11 | Intel Xeon X5667 2 | 8 | 324.0 | 306.0 | 4 | Current | |
| Mar-11 | Intel Xeon E5645 2 | 12 | 314.0 | 292.0 | 6 | Current | |
| Dec-11 | Intel Xeon L5640 2 | 12 | 313.0 | 300.0 | 6 | Current | |
| Mar-11 | Intel Xeon X5672 2 | 8 | 308.0 | 289.0 | 4 | Current | |
| Dec-11 | Intel Xeon X5647 2 | 8 | 292.0 | 276.0 | 4 | Current | |
| Dec-11 | Intel Xeon E5640 2 | 8 | 274.0 | 259.0 | 4 | Current | |
| Mar-11 | Intel Xeon X5647 2 | 8 | 270.0 | 254.0 | 4 | Current | |
| Dec-11 | Intel Xeon E5630 2 | 8 | 265.0 | 250.0 | 4 | Current | |
| Nov-11 | Intel Xeon E5640 2 | 8 | 253.0 | 236.0 | 4 | Current | |
| Aug-11 | Intel Xeon E5620 2 | 8 | 234.0 | 221.0 | 4 | Current | |
| Dec-11 | Intel Xeon L5630 2 | 8 | 213.0 | 201.0 | 4 | Current | |
| Dec-11 | Intel Xeon E5607 2 | 8 | 183.0 | 174.0 | 4 | Current | |
| Mar-11 | Intel Xeon E5607 2 | 8 | 172.0 | 161.0 | 4 | Current | |
| Dec-11 | Intel Xeon E5603 2 | 8 | 134.0 | 127.0 | 4 | Current | |
| Mar-11 | Intel Xeon E5603 2 | 8 | 126.0 | 118.0 | 4 | Current | |

| | | | | | | |
|--------|--------------------|---|-----|-------|---|---------|
| Nov-10 | Intel Xeon E5620 2 | 8 | 0.0 | 209.0 | 4 | Current |
|--------|--------------------|---|-----|-------|---|---------|

SPECfp2006 - Compute-intensive floating point

| Result Date | Processor | # Chips | # Cores | Result | Baseline | # Cores Per Chip | Status |
|-------------|--------------------|---------|---------|--------|----------|------------------|---------|
| Mar-11 | Intel Xeon X5687 2 | 8 | 8 | 65.1 | 61.2 | 4 | Current |
| Mar-11 | Intel Xeon X5690 2 | 12 | 12 | 63.4 | 59.9 | 6 | Current |
| Mar-11 | Intel Xeon X5672 2 | 8 | 8 | 61.9 | 58.1 | 4 | Current |
| Mar-11 | Intel Xeon X5675 2 | 12 | 12 | 60.3 | 56.9 | 6 | Current |
| Mar-11 | Intel Xeon X5647 2 | 8 | 8 | 53.7 | 50.7 | 4 | Current |
| Dec-11 | Intel Xeon E5645 2 | 12 | 12 | 52.5 | 50.3 | 6 | Current |
| Mar-11 | Intel Xeon E5645 2 | 12 | 12 | 48.8 | 46.1 | 6 | Current |
| Mar-11 | Intel Xeon E5607 2 | 8 | 8 | 40.7 | 38.3 | 4 | Current |
| Mar-11 | Intel Xeon E5603 2 | 8 | 8 | 31.4 | 29.6 | 4 | Current |

SPECfp2006rate - Compute-intensive floating point

| Result Date | Processor | # Chips | # Cores | Result | Baseline | # Cores Per Chip | Status |
|-------------|--------------------|---------|---------|--------|----------|------------------|---------|
| Mar-11 | Intel Xeon X5690 2 | 12 | 12 | 270.0 | 263.0 | 6 | Current |
| Dec-11 | Intel Xeon X5690 2 | 12 | 12 | 267.0 | 262.0 | 6 | Current |
| Dec-11 | Intel Xeon X5680 2 | 12 | 12 | 262.0 | 256.0 | 6 | Current |
| May-10 | Intel Xeon X5680 2 | 12 | 12 | 254.0 | 247.0 | 6 | Current |
| Dec-11 | Intel Xeon X5675 2 | 12 | 12 | 252.0 | 247.0 | 6 | Current |
| Dec-11 | Intel Xeon X5660 2 | 12 | 12 | 245.0 | 240.0 | 6 | Current |
| Dec-11 | Intel Xeon X5670 2 | 12 | 12 | 244.0 | 238.0 | 6 | Current |
| Dec-11 | Intel Xeon X5650 2 | 12 | 12 | 241.0 | 235.0 | 6 | Current |
| Mar-11 | Intel Xeon X5687 2 | 8 | 8 | 238.0 | 230.0 | 4 | Current |
| Dec-11 | Intel Xeon X5687 2 | 8 | 8 | 228.0 | 223.0 | 4 | Current |
| Mar-11 | Intel Xeon X5672 2 | 8 | 8 | 227.0 | 220.0 | 4 | Current |
| Dec-11 | Intel Xeon X5677 2 | 8 | 8 | 226.0 | 221.0 | 4 | Current |
| Mar-11 | Intel Xeon E5649 2 | 12 | 12 | 218.0 | 212.0 | 6 | Current |
| Dec-11 | Intel Xeon X5672 2 | 8 | 8 | 217.0 | 213.0 | 4 | Current |
| Dec-11 | Intel Xeon E5649 2 | 12 | 12 | 214.0 | 210.0 | 6 | Current |
| Dec-11 | Intel Xeon E5645 2 | 12 | 12 | 213.0 | 209.0 | 6 | Current |
| Dec-11 | Intel Xeon X5667 2 | 8 | 8 | 213.0 | 209.0 | 4 | Current |
| Dec-11 | Intel Xeon L5640 2 | 12 | 12 | 205.0 | 201.0 | 6 | Current |
| Mar-11 | Intel Xeon X5647 2 | 8 | 8 | 196.0 | 190.0 | 4 | Current |
| Dec-11 | Intel Xeon X5647 2 | 8 | 8 | 187.0 | 183.0 | 4 | Current |
| Dec-11 | Intel Xeon E5640 2 | 8 | 8 | 180.0 | 176.0 | 4 | Current |
| Aug-11 | Intel Xeon E5620 2 | 8 | 8 | 180.0 | 175.0 | 4 | Current |
| Dec-11 | Intel Xeon E5630 2 | 8 | 8 | 175.0 | 172.0 | 4 | Current |

| | | | | | | | |
|--------|------------------|---|---|-------|-------|---|---------|
| Dec-11 | Intel Xeon L5630 | 2 | 8 | 144.0 | 142.0 | 4 | Current |
| Dec-11 | Intel Xeon E5607 | 2 | 8 | 140.0 | 137.0 | 4 | Current |
| Mar-11 | Intel Xeon E5607 | 2 | 8 | 138.0 | 131.0 | 4 | Current |
| Dec-11 | Intel Xeon E5603 | 2 | 8 | 114.0 | 112.0 | 4 | Current |
| Mar-11 | Intel Xeon E5603 | 2 | 8 | 113.0 | 107.0 | 4 | Current |

SPECpower_ssj2008 - Power and Performance

| Result Date | Chips | Cores | SPECpower_ssj2008 | JVM Instances | Power Supply Qty & Rating (W) | Status |
|-------------|-------|-------|-------------------|---------------|-------------------------------|---------|
| Feb-11 | 2 | 12 | 3,197 | 6 | 1 x 460 | Current |
| Aug-10 | 2 | 12 | 3,052 | 6 | 1 x 460 | Current |

SPECvirt_sc2010 - Server Virtualization Performance

| Result Date | Chips | Cores | SPECvirt_sc2010 | #VMs | SPECvirt_sc2010_PPW | SPECvirt_sc2010_ServerPPW | Virtualization Platform | Status |
|-------------|-------|-------|-----------------|------|---------------------|---------------------------|-------------------------|---------|
| Nov-10 | 2 | 12 | 1,221.00 | 78 | 0.2934 | 3.4140 | VMWare ESX 4.1 | Current |

SAP R/3 SD 2-Tier - SAP R/3 (Sales & Distribution) Standard Application Benchmark

| Result Date | Chips | Cores | Users | Response Time | Steps/Hr | Database | Version | Status |
|-------------|-------|-------|-------|---------------|-----------|-----------------|-----------------|---------|
| 11-Feb-11 | 2 | 12 | 5,220 | 0.99 | 1,709,000 | SQL Server 2008 | ERP 6.0U (2009) | Current |
| 15-Jul-10 | 2 | 12 | 5,110 | 0.99 | 1,673,000 | SQL Server 2008 | ERP 6.0U (2009) | Current |
| 10-May-10 | 2 | 12 | 5,075 | 0.99 | 1,663,000 | SQL Server 2008 | ERP 6.0U (2009) | Current |
| 3-Jan-11 | 2 | 12 | 4,757 | 0.98 | 1,559,000 | MaxDB 7.8 | ERP 6.0U (2009) | Current |

About Ideas International

IDEAS provides enterprise IT research, insight, analysis, and tools to both the buy (IT Buyers) and sell (IT Sellers) sides of the industry, counting as clients many large technology vendors and major blue-chip global IT users.

IDEAS is a publicly traded company on the Australian Stock Exchange (ASX:IDE) and has been in business for over 25 years.

www.ideasinternational.com



Americas

Ideas International, Inc.

800 Westchester Avenue
Suite N337
Rye Brook, NY 10573-1354
USA

Tel +1 914 937 4302
Fax +1 914 937 2485

Asia/Pacific

Ideas International Limited

Level 3
20 George Street
Hornsby, NSW 2077
Australia

Tel +61 2 9472 7777
Fax +61 2 9472 7788

Europe, Middle East, Africa

Ideas International Europe

Milton Park Innovation Centre
99 Milton Park
Abingdon, Oxon, OX14 4RY
United Kingdom

Tel +44 (0) 1235 841 510
Fax +44 (0) 1235 841 511