



# CINT2000 Result

Copyright ©1999-2007, Standard Performance Evaluation Corporation

**Hewlett-Packard Company**  
ProLiant BL20p G4 (1.86 GHz, Intel Xeon processor E5320)

SPECint2000 = **1968**  
SPECint\_base2000 = **1963**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2007 Hardware Avail: Jan-2007 Software Avail: Nov-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	121	1159	121	1157	[Bar chart showing ratio]			
175.vpr	1400	97.2	1440	95.3	1469	[Bar chart showing ratio]			
176.gcc	1100	49.5	2221	49.5	2221	[Bar chart showing ratio]			
181.mcf	1800	56.7	3174	56.5	3188	[Bar chart showing ratio]			
186.crafty	1000	58.8	1702	58.8	1700	[Bar chart showing ratio]			
197.parser	1800	116	1547	116	1553	[Bar chart showing ratio]			
252.eon	1300	53.6	2426	53.6	2426	[Bar chart showing ratio]			
253.perlbmk	1800	79.6	2262	79.4	2268	[Bar chart showing ratio]			
254.gap	1100	58.6	1876	58.6	1877	[Bar chart showing ratio]			
255.vortex	1900	57.8	3285	57.8	3285	[Bar chart showing ratio]			
256.bzip2	1500	104	1445	104	1445	[Bar chart showing ratio]			
300.twolf	3000	138	2169	138	2169	[Bar chart showing ratio]			

### Hardware

CPU: Intel Xeon processor E5320 (1.86 GHz, 2x4 MB L2 shared, 1066 MHz bus)  
CPU MHz: 1860  
FPU: Integrated  
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32 KB I + 32 KB D on chip per core  
Secondary Cache: 8 MB I+D on chip per chip (4 MB shared per 2 cores)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 16 GB (8x2 GB PC2-5300F CL5)  
Disk Subsystem: 2x72 GB 10 K SAS  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise x64 Edition, SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20061103Z)  
Microsoft Visual Studio .NET 2003 (v7.1.3088, for libraries)  
MicroQuill Smartheap Library 8.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

Base tuning for C programs: -fast +FDO ONESTEP=yes shlw32M.lib

Base tuning for C++ programs: -fast -Qcxx\_features +FDO ONESTEP=yes

Portability flags:

176.gcc: -Dalloca=\_alloca /F10000000

186.crafty: -DNT\_i386

253.perlbmk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT

254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

Peak tuning:

164.gzip: -fast +FDO ONESTEP=yes

175.vpr: -fast +FDO ONESTEP=yes

176.gcc: basepeak=1

181.mcf: -fast +FDO

186.crafty: -fast -Oa +FDO ONESTEP=yes shlw32M.lib

197.parser: -fast +FDO ONESTEP=yes

252.eon: -fast +FDO

253.perlbmk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib

254.gap: -fast +FDO ONESTEP=yes

255.vortex: -fast +FDO ONESTEP=yes shlw32M.lib



# CINT2000 Result

Copyright ©1999-2007, Standard Performance Evaluation Corporation

**Hewlett-Packard Company**  
ProLiant BL20p G4 (1.86 GHz, Intel Xeon processor E5320)

SPECint2000 = 1968  
SPECint\_base2000 = 1963

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Feb-2007 | Hardware Avail: Jan-2007 | Software Avail: Nov-2006

## Notes/Tuning Information (Continued)

```
256.bzip2:    basepeak=1
300.twolf:    -fast                +FDO                shlw32M.lib
BIOS Configuration Notes
  Power Regulator set to Static High
  Adjacent Sector Prefetch disabled
Other Configuration Notes
  The start /b /wait /affinity command is used to bind CPU(s) to processes.
```