



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL20P G4 (3.0GHz, Intel Xeon processor 5160)

SPECint2000 = **3013**
SPECint_base2000 = **3000**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jun-2006 Hardware Avail: Jun-2006 Software Avail: May-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	75.7	1849	75.7	1850	
175.vpr	1400	65.6	2135	63.1	2218	
176.gcc	1100	35.5	3099	35.5	3099	
181.mcf	1800	43.3	4156	43.3	4156	
186.crafty	1000	36.3	2754	36.3	2753	
197.parser	1800	73.5	2451	73.1	2461	
252.eon	1300	33.1	3923	33.2	3912	
253.perlbmk	1800	50.1	3592	49.7	3619	
254.gap	1100	38.1	2890	38.0	2891	
255.vortex	1900	38.6	4925	38.6	4927	
256.bzip2	1500	66.6	2251	66.6	2251	
300.twolf	3000	87.3	3438	87.3	3438	

Hardware

CPU: Intel Xeon processor 5160 (3.0GHz, 4MB L2 shared, 1333MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2 chips
Parallel: No
Primary Cache: 32KBI + 32KBD (on chip) per core
Secondary Cache: 4096KB(I+D) (on chip) shared
L3 Cache: N/A
Other Cache: N/A
Memory: 8x1024MB PC2-5300F
Disk Subsystem: 1x36GB 10K SAS
Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise SP1
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20060323Z) Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 7.0
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 ONESTEP=yes shlw32M.lib
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
256.bzip2: basepeak=1
```



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Notes/Tuning Information (Continued)

300.twolf: -fast +FDO shlw32M.lib
BIOS Configuration Notes
Power Regulator set to Static High Performance Mode