



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant BL20p G2(3.2GHz/1MB L3 cache, Intel Xeon)

SPECint\_rate2000 = 15.3  
SPECint\_rate\_base2000 = 14.4

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Sep-2003 Hardware Avail: Dec-2003 Software Avail: Sep-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	111	14.6	1	111	14.6
175.vpr	1	161	10.1	1	158	10.3
176.gcc	1	69.3	18.4	1	64.6	19.7
181.mcf	1	239	8.73	1	229	9.12
186.crafty	1	81.6	14.2	1	81.6	14.2
197.parser	1	151	13.8	1	149	14.0
252.eon	1	91.9	16.4	1	78.5	19.2
253.perlbnk	1	127	16.5	1	118	17.7
254.gap	1	67.7	18.9	1	67.7	18.9
255.vortex	1	99.0	22.3	1	99.1	22.2
256.bzip2	1	157	11.1	1	149	11.6
300.twolf	1	254	13.7	1	187	18.6

### Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12K micro-ops I + 8KBD on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 1024KB(I+D) on chip  
Other Cache: N/A  
Memory: 4x512MB PC2100  
Disk Subsystem: 2x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows 2000 Server(Build 2195 SP3)  
Compiler: Intel C++ Compiler 7.1 Build 20030813Z  
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: -QxW -Qipo -O3 +FDO ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +FDO ONESTEP=yes
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip: -O3 -QxW -Qipo +FDO ONESTEP=yes
175.vpr: -QxW -Qipo -O3 +FDO ONESTEP=yes
176.gcc: -QxW -Qipo -Oi- -O3 +FDO ONESTEP=yes
181.mcf: -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
186.crafty: -QxW -Qipo -O3 +FDO ONESTEP=yes
197.parser: -QxW -Qipo -Oa -O3 +FDO ONESTEP=yes
252.eon: -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
253.perlbnk: -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxW -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxW -Qipo -O3 +FDO ONESTEP=yes
256.bzip2: -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```



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## Notes/Tuning Information (Continued)

300.twolf: -QxW -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes  
BIOS Configuration Notes  
Hyper Threading disabled in BIOS