



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL580 G2 (3.0GHz, Intel Xeon MP)

SPECint\_rate2000 = 33.4  
SPECint\_rate\_base2000 = 32.2

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2004 Hardware Avail: Feb-2004 Software Avail: Mar-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	115	28.3	2	115	28.3
175.vpr	2	136	23.9	2	130	24.9
176.gcc	2	72.9	35.0	2	65.2	39.2
181.mcf	2	128	32.5	2	130	32.1
186.crafty	2	84.7	27.4	2	83.3	27.8
197.parser	2	138	30.3	2	138	30.3
252.eon	2	87.8	34.4	2	72.8	41.4
253.perlbnk	2	129	32.3	2	122	34.1
254.gap	2	86.6	29.5	2	86.7	29.4
255.vortex	2	82.5	53.4	2	83.1	53.0
256.bzip2	2	114	30.6	2	111	31.4
300.twolf	2	191	36.5	2	186	37.4

### Hardware

CPU: Intel Xeon MP (3.0GHz, 400MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper Threading Disabled)  
CPU(s) orderable: 1,2,4  
Parallel: No  
Primary Cache: 12K micro-ops I + 8KBD on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 4096KB(I+D) on chip  
Other Cache: N/A  
Memory: 16x512MB PC1600  
Disk Subsystem: 2x18.2GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)  
Compiler: Intel C++ Compiler 8.0 Build 20031211Z  
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: -QxN -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: -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes
175.vpr: -QxN -Qipo -O3 +FDO ONESTEP=yes
176.gcc: -QxN -Qipo -Oi- -O3 +FDO ONESTEP=yes
181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
186.crafty: -QxN -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
197.parser: -QxN -Qipo -O3 +FDO ONESTEP=yes
252.eon: -QxN -Qipo -O3 +FDO ONESTEP=yes
253.perlbnk: -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxN -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
256.bzip2: -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```



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## Notes/Tuning Information (Continued)

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