



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL560 (2.8GHz, Intel Xeon MP)

SPECint\_rate2000 = 14.4  
SPECint\_rate\_base2000 = 13.9

SPEC license #: 3 Test by: Hewlett-Packard Company, Houston TX Test date: Sep-2003 Hardware Avail: Jul-2003 Software Avail: Jun-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	129	12.6	1	129	12.6
175.vpr	1	146	11.1	1	146	11.1
176.gcc	1	77.1	16.5	1	70.3	18.2
181.mcf	1	213	9.78	1	206	10.2
186.crafty	1	92.5	12.5	1	92.3	12.6
197.parser	1	161	13.0	1	159	13.1
252.eon	1	108	14.0	1	90.8	16.6
253.perlbnk	1	139	15.0	1	131	16.0
254.gap	1	78.0	16.4	1	77.8	16.4
255.vortex	1	104	21.2	1	104	21.2
256.bzip2	1	147	11.9	1	139	12.5
300.twolf	1	219	15.9	1	206	16.9

### Hardware

CPU: Intel Xeon MP (2.8GHz, 400MHz bus)  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 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: 2048KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 2x1024MB PC2100  
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)  
 Compiler: Intel C++ Compiler 7.1 Build 20030801Z  
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
 MicroQuill Smartheap Library 7.0  
 File System: NTFS  
 System State: Hyperthreading disabled in BIOS

## 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: -QxW -Qipo -O3 +FDO ONESTEP=yes
175.vpr: -QxW -Qipo -O3 +FDO ONESTEP=yes
176.gcc: -QxW -Qipo -O3 -Oi- +FDO ONESTEP=yes
181.mcf: -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
186.crafty: -QxW -Qipo -O3 +FDO ONESTEP=yes
197.parser: -QxW -Qipo -O3 -Oa +FDO ONESTEP=yes
252.eon: -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
253.perlbnk: -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxW -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxW -Qipo -O3 +FDO ONESTEP=yes
256.bzip2: -Qunroll1 -Qipo -Oa +FDO ONESTEP=yes
```



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## Notes/Tuning Information (Continued)

300.twolf: -QxW -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes