



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant BL40p (2.8GHz, Intel Xeon MP)

SPECint\_rate2000 = 46.5  
SPECint\_rate\_base2000 = 44.0

SPEC license #: 3 Test date: Sep-2003 Hardware Avail: Jul-2003 Software Avail: Jun-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	136	47.7	4	134	48.3
175.vpr	4	192	33.8	4	192	33.8
176.gcc	4	110	46.5	4	79.2	64.4
181.mcf	4	619	13.5	4	599	14.0
186.crafty	4	92.4	50.2	4	93.4	49.7
197.parser	4	169	49.4	4	168	49.6
252.eon	4	105	57.5	4	91.2	66.1
253.perlbnk	4	146	57.3	4	136	61.5
254.gap	4	141	36.3	4	140	36.4
255.vortex	4	122	72.5	4	122	72.3
256.bzip2	4	183	38.1	4	178	39.0
300.twolf	4	220	63.4	4	207	67.3

### Hardware

CPU: Intel Xeon MP (2.8GHz, 400MHz bus)  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 4 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: 2048KB(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 Advanced 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: 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