



# CINT2000 Result

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

SPECint\_rate2000 = 26.9  
SPECint\_rate\_base2000 = 25.8

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	2	129	25.1	2	130	25.0
175.vpr	2	160	20.4	2	158	20.6
176.gcc	2	84.2	30.3	2	72.1	35.4
181.mcf	2	332	12.6	2	319	13.1
186.crafty	2	92.3	25.1	2	92.4	25.1
197.parser	2	162	25.8	2	161	25.9
252.eon	2	105	28.7	2	91.2	33.1
253.perlbnk	2	142	29.4	2	134	31.2
254.gap	2	92.3	27.7	2	92.1	27.7
255.vortex	2	109	40.5	2	109	40.5
256.bzip2	2	155	22.5	2	150	23.2
300.twolf	2	218	31.9	2	206	33.7

### Hardware

CPU: Intel Xeon MP (2.8GHz, 400MHz bus)  
CPU MHz: 2800  
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: 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