



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant ML350 G4 (3.4GHz, Intel Xeon)

SPECint\_rate2000 = 31.6  
SPECint\_rate\_base2000 = 30.9

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2004 Hardware Avail: Aug-2004 Software Avail: Sep-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	126	25.8	2	126	25.8
175.vpr	2	167	19.4	2	161	20.2
176.gcc	2	66.2	38.5	2	66.2	38.5
181.mcf	2	223	18.7	2	223	18.7
186.crafty	2	79.5	29.2	2	79.5	29.2
197.parser	2	146	28.6	2	146	28.6
252.eon	2	77.5	38.9	2	63.9	47.2
253.perlbnk	2	104	40.3	2	102	41.0
254.gap	2	71.9	35.5	2	70.8	36.0
255.vortex	2	79.4	55.5	2	79.4	55.5
256.bzip2	2	159	21.9	2	159	21.8
300.twolf	2	185	37.6	2	185	37.6

### Hardware

CPU: Intel Xeon (3.4GHz, 1MB L2, 800MHz bus)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (HT Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12K micro-ops I + 16KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB PC2700 CL2.5  
Disk Subsystem: 1x72.8GB 10K U320  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard (Build 3790)  
Compiler: Intel C++ Compiler 8.1 Build 20040802Z  
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
+FDO*: PASS1=-Qprof_gen PASS2=-Qprof_use (-QxP not used in PASS1 to enable cross-compilation)
Base tuning for C programs: -fast +FDO shlw32M.lib
Base tuning for C++ programs: -fast -GX -GR
Portability flags:
 176.gcc: -Dalloca=_alloca /F10000000
 186.crafty: -DNT_i386
 253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDDL /MT
 254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
 164.gzip: basepeak=1
 175.vpr: -fast +FDO ONESTEP=yes
 176.gcc: basepeak=1
 181.mcf: -fast +FDO ONESTEP=yes shlw32M.lib
 186.crafty: -fast -Oa +FDO ONESTEP=yes shlw32M.lib
 197.parser: -fast +FDO ONESTEP=yes
 252.eon: -QxP -O2 -Qipo +FDO* ONESTEP=yes
 253.perlbnk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib
 254.gap: -fast +FDO ONESTEP=yes
 255.vortex: basepeak=1
```



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## Notes/Tuning Information (Continued)

256.bzip2: -fast -Oa -Qunroll11 +FDO ONESTEP=yes  
300.twolf: basepeak=1  
BIOS Configuration Notes  
HT Technology disabled