



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
ProLiant DL380 G4 (3.6GHz, Intel Xeon)

SPECint\_rate2000 = 18.0  
SPECint\_rate\_base2000 = 17.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	118	13.7	1	118	13.7
175.vpr	1	143	11.3	1	138	11.7
176.gcc	1	58.8	21.7	1	58.8	21.7
181.mcf	1	152	13.7	1	152	13.7
186.crafty	1	74.9	15.5	1	74.9	15.5
197.parser	1	132	15.8	1	132	15.8
252.eon	1	73.6	20.5	1	61.6	24.5
253.perlbnk	1	97.0	21.5	1	94.2	22.2
254.gap	1	59.6	21.4	1	58.7	21.8
255.vortex	1	70.0	31.5	1	70.0	31.5
256.bzip2	1	137	12.7	1	133	13.1
300.twolf	1	168	20.7	1	170	20.4

### Hardware

CPU: Intel Xeon (3.6GHz, 1MB L2, 800MHz bus)  
CPU MHz: 3600  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 16K micro-ops I + 16KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x512MB DDR2-400  
Disk Subsystem: 1x18.2GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard (Build 3790)  
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  
+FDO\*: FDO (-QxP not used in PASS1 to enable cross-compilation)

Base tuning for C programs: -QxP -fast +FDO\* shlw32M.lib

Base tuning for C++ programs: -QxP -fast -GX -GR

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: -QxP -fast -Oa +FDO ONESTEP=yes

175.vpr: -QxP -fast +FDO ONESTEP=yes

176.gcc: basepeak = 1

181.mcf: -QxP -fast +FDO ONESTEP=yes shlw32M.lib

186.crafty: -QxP -fast -Oa +FDO ONESTEP=yes shlw32M.lib

197.parser: -QxP -fast +FDO ONESTEP=yes

252.eon: -QxP -O2 -Qipo +FDO\*

253.perlbnk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib

254.gap: -QxP -fast +FDO ONESTEP=yes



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
ProLiant DL380 G4 (3.6GHz, Intel Xeon)

SPECint\_rate2000 = 18.0  
SPECint\_rate\_base2000 = 17.6

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

## Notes/Tuning Information (Continued)

```
255.vortex:  -QxP -fast                +FDO ONESTEP=yes shlw32M.lib
256.bzip2:   -fast -Oa -Qunroll1 +FDO ONESTEP=yes
300.twolf:   -QxP -fast -O3            +FDO* shlw32M.lib
BIOS Configuration Notes
HT Technology disabled
```