



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant DL580 G4 (3.4GHz, Intel Xeon processor 7140M)

SPECint\_rate2000 = 163  
SPECint\_rate\_base2000 = 163

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2006 Hardware Avail: Aug-2006 Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	198	131	16	197	132
175.vpr	16	241	108	16	232	112
176.gcc	16	97.4	210	16	97.4	210
181.mcf	16	197	169	16	196	171
186.crafty	16	158	117	16	162	115
197.parser	16	206	162	16	205	163
252.eon	16	104	231	16	105	230
253.perlbnk	16	191	175	16	190	176
254.gap	16	158	129	16	158	129
255.vortex	16	135	262	16	135	261
256.bzip2	16	179	156	16	179	156
300.twolf	16	325	171	16	330	169

### Hardware

CPU: Intel Xeon processor 7140M (800MHz system bus)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1,2,4 chips  
Parallel: No  
Primary Cache: 12 K I micro-ops + 16 KB D on chip, per core  
Secondary Cache: 1 MB I+D on chip, per core  
L3 Cache: 16 MB on chip, per chip  
Other Cache: N/A  
Memory: 32 GB (16x2048MB PC2-3200 dual-rank)  
Disk Subsystem: 1x36GB 10K SAS  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)  
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

Base tuning for C programs: -fast +FDO ONESTEP=yes shlw32M.lib

Base tuning for C++ programs: -fast -Qcxx\_features +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: -fast +FDO ONESTEP=yes

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: -fast +FDO

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

254.gap: -fast +FDO ONESTEP=yes

255.vortex: -fast +FDO ONESTEP=yes shlw32M.lib



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## Notes/Tuning Information (Continued)

256.bzip2: basepeak=1  
300.twolf: -fast +FDO shlw32M.lib  
BIOS Configuration Notes  
Hyper-Threading Technology enabled