



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL140 G2 (3.8GHz, Intel Xeon)

SPECint\_rate2000 = 42.3  
SPECint\_rate\_base2000 = 42.1

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Sep-2005 Software Avail: May-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	167	38.9	4	166	39.0
175.vpr	4	240	27.1	4	231	28.1
176.gcc	4	90.6	56.3	4	90.6	56.3
181.mcf	4	354	23.6	4	353	23.7
186.crafty	4	137	34.0	4	137	34.0
197.parser	4	200	41.7	4	200	41.7
252.eon	4	111	54.2	4	111	54.5
253.perlbnk	4	178	46.8	4	178	46.9
254.gap	4	110	46.3	4	109	46.9
255.vortex	4	127	69.3	4	127	69.5
256.bzip2	4	197	35.4	4	195	35.6
300.twolf	4	261	53.4	4	261	53.4

### Hardware

CPU: Intel Xeon (3.8GHz, 2MB L2, 800MHz bus)  
 CPU MHz: 3800  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology enabled)  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 12K micro-ops I + 16KBD on chip  
 Secondary Cache: 2048KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8x1024MB PC2-3200  
 Disk Subsystem: 1x80.0GB SATA  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
 Compiler: Intel C++ Compiler for 32-bit applications, (Version 8.1 Build 20050524Z)  
 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 -DPERLDDL /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: -fast -Oa -Qunroll11 +FDO ONESTEP=yes shlw32M.lib  
300.twolf: -fast +FDO shlw32M.lib  
BIOS Configuration Notes  
Hyper-Threading Technology enabled