



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant DL380 G4 (2.8GHz, Intel dual-core Xeon)

SPECint\_rate2000 = **59.2**  
SPECint\_rate\_base2000 = **59.0**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	230	56.4	8	231	56.1
175.vpr	8	353	36.8	8	340	38.2
176.gcc	8	123	83.0	8	123	83.0
181.mcf	8	661	25.3	8	661	25.3
186.crafty	8	194	47.9	8	193	48.0
197.parser	8	272	61.5	8	271	61.7
252.eon	8	152	79.6	8	152	79.1
253.perlbnk	8	238	70.3	8	235	71.1
254.gap	8	169	60.6	8	169	60.4
255.vortex	8	168	105	8	168	105
256.bzip2	8	274	50.9	8	276	50.4
300.twolf	8	360	77.4	8	361	77.1

### Hardware

CPU: Intel dual-core Xeon (2.8GHz, 2x2MB L2, 800MHz bus)  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology enabled)  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 12K micro-ops I + 16KBD (on chip) per core  
 Secondary Cache: 2048KB(I+D) (on chip) per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x2048MB PC2-3200  
 Disk Subsystem: 1x72.8GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
 Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20050624Z)  
 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 -DPERL DLL /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