



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant DL360 G4p (3.8GHz, Intel Xeon)

SPECint2000 = **1806**  
SPECint\_base2000 = **1799**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	110	1269	111	1262	
175.vpr	1400	114	1226	112	1254	
176.gcc	1100	51.7	2128	51.7	2128	
181.mcf	1800	89.1	2020	89.1	2020	
186.crafty	1000	71.1	1407	71.1	1406	
197.parser	1800	117	1534	117	1539	
252.eon	1300	55.7	2334	55.3	2353	
253.perlbnk	1800	81.4	2211	80.9	2226	
254.gap	1100	55.6	1979	55.2	1992	
255.vortex	1900	61.7	3080	61.7	3081	
256.bzip2	1500	113	1333	112	1342	
300.twolf	3000	158	1894	158	1895	

### Hardware

CPU: Intel Xeon (3.8GHz, 2MB L2, 800MHz bus)  
CPU MHz: 3800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
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: 4x2048MB PC2-3200 Dual Rank  
Disk Subsystem: 1x36.4GB 10K SAS  
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 -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)

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256.bzip2:    -fast -Oa -Qunroll11 +FDO  ONESTEP=yes shlw32M.lib
300.twolf:    -fast                    +FDO                    shlw32M.lib
BIOS Configuration Notes
Hyper-Threading Technology disabled
```