



# CINT2000 Result

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

SPECint2000 = **1382**  
SPECint\_base2000 = **1377**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	149	937	150	931	
175.vpr	1400	148	943	145	967	
176.gcc	1100	67.6	1627	67.6	1627	
181.mcf	1800	105	1707	105	1707	
186.crafty	1000	97.4	1027	97.5	1025	
197.parser	1800	155	1160	155	1163	
252.eon	1300	74.3	1750	74.4	1747	
253.perlbmk	1800	108	1665	108	1669	
254.gap	1100	72.8	1510	71.5	1538	
255.vortex	1900	78.7	2414	78.6	2418	
256.bzip2	1500	142	1056	142	1055	
300.twolf	3000	211	1423	211	1424	

## Hardware

CPU: Intel dual-core Xeon (2.8GHz, 2x2MB L2, 800MHz bus)  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)  
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.perlbmk: -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.perlbmk: -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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SPECint2000 = 1382  
SPECint\_base2000 = 1377

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

## Notes/Tuning Information (Continued)

```
256.bzip2: -fast -Oa -Qunroll1 +FDO ONESTEP=yes shlw32M.lib
300.twolf: -fast +FDO shlw32M.lib
BIOS Configuration Notes
Hyper-Threading Technology disabled
Other Configuration Notes
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```