



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant DL580 G2 (3.0GHz, Intel Xeon MP)

SPECint2000 = **1491**  
SPECint\_base2000 = **1455**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2004 Hardware Avail: Feb-2004 Software Avail: Mar-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	114	1233	114	1227	
175.vpr	1400	126	1113	126	1111	
176.gcc	1100	68.3	1611	64.3	1710	
181.mcf	1800	110	1634	114	1583	
186.crafty	1000	84.3	1186	82.9	1206	
197.parser	1800	135	1329	136	1325	
252.eon	1300	87.8	1481	72.8	1785	
253.perlbnk	1800	128	1411	121	1483	
254.gap	1100	74.6	1474	74.7	1473	
255.vortex	1900	79.0	2404	80.6	2357	
256.bzip2	1500	111	1354	109	1379	
300.twolf	3000	190	1575	186	1615	

### Hardware

CPU: Intel Xeon MP (3.0GHz, 400MHz bus)  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper Threading Disabled)  
 CPU(s) orderable: 1,2,4  
 Parallel: No  
 Primary Cache: 12K micro-ops I + 8KBD on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: 4096KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 16x512MB PC1600  
 Disk Subsystem: 2x18.2GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)  
 Compiler: Intel C++ Compiler 8.0 Build 20031211Z  
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
 MicroQuill Smartheap Library 7.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

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+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -QxN -Qipo -O3 +FDO ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +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: -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes
 175.vpr: -QxN -Qipo -O3 +FDO ONESTEP=yes
 176.gcc: -QxN -Qipo -Oi- -O3 +FDO ONESTEP=yes
 181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
 186.crafty: -QxN -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
 197.parser: -QxN -Qipo -O3 +FDO ONESTEP=yes
 252.eon: -QxN -Qipo -O3 +FDO ONESTEP=yes
 253.perlbnk: -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
 254.gap: -QxN -Qipo -O3 +FDO ONESTEP=yes
 255.vortex: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
 256.bzip2: -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```



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## Notes/Tuning Information (Continued)

300.twolf: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes  
BIOS Configuration Notes  
Hyper Threading disabled