



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant DL145 G2 (AMD Opteron (TM) 285)

SPECint2000 = **1802**  
SPECint\_base2000 = **1714**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2006 Hardware Avail: Mar-2006 Software Avail: Nov-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000	2000	3000	4000
164.gzip	1400	97.7	1433	97.7	1433				
175.vpr	1400	100	1394	97.8	1431				
176.gcc	1100	57.8	1902	57.4	1916				
181.mcf	1800	155	1158	130	1387				
186.crafty	1000	58.9	1699	53.5	1870				
197.parser	1800	111	1627	110	1629				
252.eon	1300	50.0	2602	45.6	2852				
253.perlbnk	1800	103	1753	103	1753				
254.gap	1100	60.3	1823	60.3	1823				
255.vortex	1900	72.4	2625	72.0	2640				
256.bzip2	1500	109	1378	107	1399				
300.twolf	3000	170	1763	143	2097				

### Hardware

CPU: AMD Opteron (TM) 285  
CPU MHz: 2600  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 64KBI + 64KBD (on chip) per core  
Secondary Cache: 1024KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB PC3200 CL3.0  
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler 8.0 Build 20040318Z  
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 -arch:SSE2 -Oi- +FDO ONESTEP=yes
Base tuning for C++ programs: -fast -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: basepeak=yes
175.vpr: -fast -arch:SSE2 -Qoption,c,-ip_ninl_max_stats=2000
-Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes
176.gcc: -fast -arch:SSE2 -Oi- -Qunroll3 +FDO
181.mcf: -fast -QaxN +FDO ONESTEP=yes
186.crafty: -fast -arch:SSE2 +FDO ONESTEP=yes
197.parser: -arch:SSE2 -Oi- -Qipo +FDO ONESTEP=yes
252.eon: -fast -arch:SSE2 -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000
-Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes
253.perlbnk: basepeak=yes
254.gap: basepeak=yes
```



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## Notes/Tuning Information (Continued)

255.vortex: -fast -arch:SSE2 -Oi- -Qoption,c,-ip\_ninl\_max\_stats=2000  
-Qoption,c,-ip\_ninl\_max\_total\_stats=4500 +FDO shlw32M.lib ONESTEP=yes  
256.bzip2: -fast -Qunroll2  
300.twolf: -fast -arch:SSE2 -Qansi\_alias +FDO shlw32M.lib ONESTEP=yes  
BIOS Configuration Notes  
Node Interleaving Disabled  
Other Configuration Notes  
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.