



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL585 (AMD Opteron (TM) 880)

SPECint\_rate2000 = 75.1  
SPECint\_rate\_base2000 = 71.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	108	60.4	4	108	60.4
175.vpr	4	110	58.9	4	107	60.8
176.gcc	4	64.0	79.7	4	63.5	80.3
181.mcf	4	204	41.0	4	162	51.4
186.crafty	4	63.7	72.9	4	58.0	80.1
197.parser	4	122	68.7	4	122	68.7
252.eon	4	55.0	110	4	50.0	121
253.perlbnk	4	113	73.7	4	113	73.7
254.gap	4	69.0	74.0	4	69.0	74.0
255.vortex	4	78.3	113	4	77.9	113
256.bzip2	4	121	57.4	4	120	58.1
300.twolf	4	186	74.7	4	155	89.6

### Hardware

CPU: AMD Opteron (TM) 880  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 2,4  
 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: 8x2048MB 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 20031211Z  
 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- -Qunroll13 +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  
The start /b /wait /affinity command is used to bind CPU(s) to processes.