



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL585 (AMD Opteron (TM) 850)

SPECint\_rate2000 = 36.2  
SPECint\_rate\_base2000 = 33.8

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jun-2004 Hardware Avail: Aug-2004 Software Avail: Sep-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.3	2	106	30.6
175.vpr	2	119	27.4	2	115	28.2
176.gcc	2	66.6	38.3	2	66.6	38.3
181.mcf	2	223	18.7	2	182	22.9
186.crafty	2	64.1	36.2	2	58.5	39.7
197.parser	2	131	31.8	2	130	32.0
252.eon	2	54.9	54.9	2	50.5	59.8
253.perlbnk	2	118	35.3	2	111	37.8
254.gap	2	73.9	34.5	2	71.9	35.5
255.vortex	2	85.0	51.9	2	80.6	54.7
256.bzip2	2	131	26.6	2	127	27.4
300.twolf	2	199	35.0	2	157	44.3

### Hardware

CPU: AMD Opteron (TM) 850  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: 2,4  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD on chip  
 Secondary Cache: 1024KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8x2048MB PC2700 CL2.5  
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise (Build 3790)  
 Compiler: Intel C++ Compiler 8.0 Build 20040415Z  
 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: -fast -arch:SSE2 +FDO shlw32M.lib ONESTEP=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: basepeak=yes
  181.mcf: -fast -QaxN +FDO ONESTEP=yes
  186.crafty: -fast -QxW + 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: -fast -arch:SSE2 +FDO shlw32M.lib ONESTEP=yes
  254.gap: -fast -arch:SSE2 -Oi- -Oa -Qoption,c,-ip_ninl_max_stats=500
```



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## Notes/Tuning Information (Continued)

```
255.vortex: -Qoption,c,-ip_ninl_max_total_stats=3000 +FDO ONESTEP=yes
            -fast -arch:SSE -Oi- -Qoption,c,-ip_ninl_max_stats=2000
256.bzip2:  -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO shlw32M.lib ONESTEP=yes
            -fast -Qunroll2
300.twolf:  -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
BIOS Configuration Notes
Node Interleaving Enabled
```