



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL585 (AMD Opteron (TM) 854)

SPECint_rate2000 = 85.5
SPECint_rate_base2000 = 80.9

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	92.9	69.9	4	92.9	69.9
175.vpr	4	99.3	65.4	4	96.4	67.4
176.gcc	4	56.9	89.7	4	56.3	90.6
181.mcf	4	174	47.9	4	145	57.4
186.crafty	4	54.9	84.5	4	49.8	93.1
197.parser	4	108	77.4	4	108	77.5
252.eon	4	47.1	128	4	43.4	139
253.perlbnk	4	99.9	83.6	4	99.9	83.6
254.gap	4	58.5	87.3	4	58.5	87.3
255.vortex	4	72.1	122	4	70.9	124
256.bzip2	4	108	64.4	4	106	65.5
300.twolf	4	167	83.1	4	133	105

Hardware

CPU: AMD Opteron (TM) 854
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/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- -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
The start /b /wait /affinity command is used to bind CPU(s) to processes.