



CINT2000 Result

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

SPECint_rate2000 = 68.6
SPECint_rate_base2000 = 63.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	109	59.8	4	108	60.1
175.vpr	4	128	50.7	4	125	52.1
176.gcc	4	70.2	72.7	4	70.2	72.7
181.mcf	4	271	30.8	4	222	37.6
186.crafty	4	64.6	71.9	4	58.7	79.0
197.parser	4	138	60.4	4	138	60.7
252.eon	4	55.0	110	4	50.7	119
253.perlbnk	4	123	67.7	4	113	74.0
254.gap	4	79.1	64.5	4	77.8	65.6
255.vortex	4	91.8	96.0	4	86.3	102
256.bzip2	4	141	49.4	4	137	50.7
300.twolf	4	208	66.8	4	157	88.5

Hardware

CPU: AMD Opteron (TM) 850
 CPU MHz: 2400
 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
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16x2048MB 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
```