



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL45p (AMD Opteron (TM) 885)

SPECint_rate2000 = 155
SPECint_rate_base2000 = 146

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	101	128	8	101	128
175.vpr	8	110	118	8	107	121
176.gcc	8	61.8	165	8	61.5	166
181.mcf	8	228	73.2	8	183	91.4
186.crafty	8	59.0	157	8	53.7	173
197.parser	8	117	143	8	117	143
252.eon	8	50.4	239	8	46.1	262
253.perlbnk	8	107	156	8	107	156
254.gap	8	67.3	152	8	67.3	152
255.vortex	8	78.5	225	8	77.1	229
256.bzip2	8	122	114	8	119	117
300.twolf	8	181	154	8	143	194

Hardware

CPU: AMD Opteron (TM) 885
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
 CPU(s) orderable: 1,2,4
 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: 16x2048MB PC3200 CL3.0
 Disk Subsystem: 1x72.8GB 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
The start /b /wait /affinity command is used to bind CPU(s) to processes.