



CINT2000 Result

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Dell
PowerEdge 6650 (2.8 GHz Xeon MP)

SPECint_rate2000 = 47.4
SPECint_rate_base2000 = 46.2

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Jun-2003 | Hardware Avail: Jun-2003 | Software Avail: Apr-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	135	48.3	4	134	48.6
175.vpr	4	177	36.6	4	177	36.7
176.gcc	4	98.9	51.6	4	99.5	51.3
181.mcf	4	510	16.4	4	495	16.9
186.crafy	4	91.8	50.6	4	92.0	50.4
197.parser	4	169	49.5	4	168	49.6
252.eon	4	105	57.4	4	90.7	66.5
253.perlbnk	4	147	56.8	4	141	59.4
254.gap	4	126	40.6	4	126	40.6
255.vortex	4	118	74.8	4	118	74.8
256.bzip2	4	171	40.8	4	166	42.0
300.twolf	4	219	63.5	4	208	66.9

Hardware

CPU: Intel Xeon MP (400 MHz system bus)
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip (Hyper-Threading Technology disabled)
 CPU(s) orderable: 1,2,4
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
 Secondary Cache: 512KB(I+D) on chip
 L3 Cache: 2048KB(I+D) on chip
 Other Cache: N/A
 Memory: 4 x 1024MB DDR200
 Disk Subsystem: 1 x 36GB SEAGATE ST336706LC
 Other Hardware:

Software

Operating System: Windows 2000 Advanced Server (SP2)
 Compiler: Intel C++ Compiler 7.1 (20030402Z)
 Microsoft Visual Studio .NET (7.0.9466)
 MicroQuill SmartHeap Library 6.01
 File System: NTFS
 System State: Hyper-Threading Technology disabled using BIOS switch.

Notes/Tuning Information

PORTABILITY FLAGS

176.gcc: -Dalloca=_alloca /F10000000
 186.crafy: -DNT_i386
 253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
 254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=yes

FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

BASE TUNING

C: -QxW -Qipo -O3 +FDO
 C++: -QxW -Qipo -GX -GR

PEAK TUNING

164.gzip: -QxW -Qipo -Oa -O3 +FDO
 175.vpr: -QxW -Qipo -O3 +FDO
 176.gcc: -QxW -Qipo -O3 +FDO
 181.mcf: -QxW -Qipo -O3 +FDO shlw32M.lib
 186.crafy: -QxW -Qipo -O3 +FDO
 197.parser: -QxW -Qipo -O3 +FDO
 252.eon: -QxW -Qipo -O3 +FDO
 253.perlbnk: -QxW -Qipo -O3 +FDO shlw32M.lib



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Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    basepeak=yes
256.bzip2:    -Qipo -Oa -Qunroll11 +FDO
300.twolf:    -Qipo -QxW -O3 -Oa      shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 6.01
              www.microquill.com
```