



CINT2000 Result

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Dell

Precision Workstation 650 (3.2 GHz Xeon, 1MB L3 Cache)

SPECint_rate2000 = 27.6

SPECint_rate_base2000 = 26.4

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

		Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
45	40	164.gzip	2	113	28.8	2	113	28.8
	35	175.vpr	2	180	18.1	2	178	18.2
	30	176.gcc	2	75.1	34.0	2	75.0	34.0
	25	181.mcf	2	393	10.6	2	387	10.8
	20	186.crafy	2	81.7	28.4	2	81.6	28.4
	15	197.parser	2	154	27.2	2	154	27.1
	10	252.eon	2	91.7	32.9	2	79.0	38.2
	5	253.perlbnk	2	128	32.7	2	124	33.7
		254.gap	2	76.6	33.3	2	76.6	33.3
		255.vortex	2	98.9	44.6	2	98.9	44.6
		256.bzip2	2	180	19.4	2	175	19.9
		300.twolf	2	270	25.8	2	204	34.2

Hardware

CPU: Intel Xeon (533 MHz system bus)
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
 Secondary Cache: 512KB(I+D) on chip
 L3 Cache: 1024KB(I+D) on chip
 Other Cache: N/A
 Memory: 4 x 512MB PC2100 ECC DDR SDRAM CL2-2-2
 Disk Subsystem: 1 x 36GB 10K RPM U320 SCSI
 Other Hardware:

Software

Operating System: Windows XP Professional SP1
 Compiler: Intel C++ Compiler 7.1 (20030402Z)
 Microsoft Visual Studio .NET (7.0.9466)
 MicroQuill SmartHeap Library 6.01
 File System: NTFS
 System State: Default

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
```