



CINT2000 Result

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Dell

Precision Workstation 650 (3.06 GHz Xeon, 1MB L3 Cache)

SPECint_rate2000 = 26.8

SPECint_rate_base2000 = 25.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	118	27.5	2	117	27.8
175.vpr	2	185	17.6	2	183	17.8
176.gcc	2	75.5	33.8	2	76.3	33.4
181.mcf	2	393	10.6	2	387	10.8
186.crafy	2	85.4	27.2	2	84.7	27.4
197.parser	2	159	26.2	2	158	26.4
252.eon	2	95.5	31.6	2	82.5	36.6
253.perlbnk	2	135	31.0	2	126	33.0
254.gap	2	78.7	32.4	2	78.7	32.4
255.vortex	2	102	43.4	2	102	43.4
256.bzip2	2	184	18.9	2	180	19.3
300.twolf	2	284	24.5	2	210	33.1

Hardware

CPU: Intel Xeon (533 MHz system bus)
CPU MHz: 3066
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
Other Cache: N/A
Memory: 4 x 512MB PC2100 CL2-2-2 DDR ECC SDRAM
Disk Subsystem: 1 x 36GB 10K 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
```