



CINT2000 Result

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Dell

Precision Workstation 650 (3.20 GHz Xeon, 2MB L3 Cache)

SPECint_rate2000 = 33.6

SPECint_rate_base2000 = 32.9

SPEC license #: 55 | Tested by: Dell Inc., Round Rock, TX | Test date: Jan-2004 | Hardware Avail: Feb-2004 | Software Avail: Dec-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.3	2	107	30.3
175.vpr	2	134	24.3	2	134	24.3
176.gcc	2	64.7	39.4	2	64.7	39.4
181.mcf	2	179	23.3	2	182	22.9
186.crafty	2	79.3	29.3	2	78.4	29.6
197.parser	2	135	31.0	2	135	31.0
252.eon	2	77.8	38.7	2	68.4	44.1
253.perlbnk	2	123	34.0	2	117	35.8
254.gap	2	75.7	33.7	2	75.7	33.7
255.vortex	2	78.6	56.1	2	78.6	56.1
256.bzip2	2	127	27.5	2	124	28.1
300.twolf	2	180	38.7	2	174	40.0

Hardware

CPU: Intel Xeon (533 MHz system bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 2
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 512MB ECC CL2-2-2 PC2100 DDR SDRAM
Disk Subsystem: 1 x 36GB U320 SCSI, 10K RPM
Other Hardware:

Software

Operating System: Windows XP Professional SP1
Compiler: Intel C/C++ Compiler 8.0 (20031229Z)
Microsoft Visual Studio .NET (7.0.9466)
File System: NTFS
System State: Default

Notes/Tuning Information

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

FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=yes
FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

BASE TUNING

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

PEAK TUNING

164.gzip: -QxN -Qipo -O3 -Oa +FDO
175.vpr: basepeak=yes
176.gcc: basepeak=yes
181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib
186.crafty: -QxN -Qipo -O3 -Oa +FDO shlw32M.lib
197.parser: basepeak=yes
252.eon: -QxN -Qipo -O3 +FDO
253.perlbnk: -QxN -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 -Qunroll1 +FDO shlW32M.lib
300.twolf:    -QxN -Qipo -O3      +FDO shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 7.1
              www.microquill.com
```

NOTES

Hyper-Threading Technology not enabled.