



CINT2000 Result

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Dell

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

SPECint_rate2000 = 15.5

SPECint_rate_base2000 = 14.8

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
164.gzip	1	112	14.5	1	112	14.6
175.vpr	1	151	10.8	1	149	10.9
176.gcc	1	66.5	19.2	1	66.6	19.2
181.mcf	1	219	9.52	1	216	9.68
186.crafy	1	81.1	14.3	1	81.1	14.3
197.parser	1	147	14.2	1	147	14.2
252.eon	1	91.7	16.5	1	79.1	19.1
253.perlbnk	1	134	15.6	1	123	16.9
254.gap	1	66.5	19.2	1	66.5	19.2
255.vortex	1	93.1	23.7	1	93.1	23.7
256.bzip2	1	150	11.6	1	145	12.0
300.twolf	1	253	13.8	1	196	17.7

Hardware

CPU: Intel Xeon (533 MHz system bus)
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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 -Qunroll1 +FDO
300.twolf:    -Qipo -QxW -O3 -Oa      shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 6.01
              www.microquill.com
```

1 CPU disabled via BIOS setting.