CINT2000 Result

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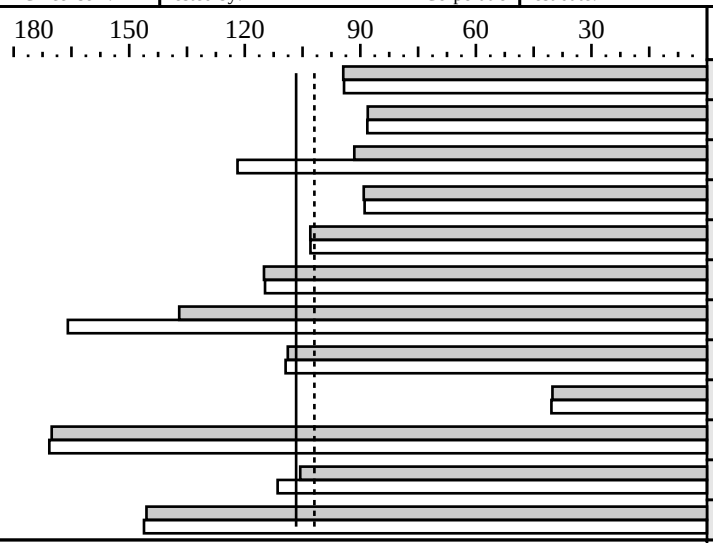
IBM Corporation

IBM xSeries 445 (3.0GHz, Intel Xeon MP)

SPECint_rate2000 = 107

SPECint_rate_base2000 = 102

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Jun-2004 | Hardware Avail: Feb-2004 | Software Avail: Mar-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	138	94.4	8	138	94.2
175.vpr	8	148	88.1	8	147	88.2
176.gcc	8	111	91.6	8	83.8	122
181.mcf	8	187	89.1	8	188	88.9
186.crafty	8	90.1	103	8	90.1	103
197.parser	8	145	115	8	146	115
252.eon	8	88.0	137	8	72.7	166
253.perlbmk	8	153	109	8	153	109
254.gap	8	254	40.1	8	253	40.4
255.vortex	8	104	170	8	103	171
256.bzip2	8	132	106	8	125	111
300.twolf	8	191	146	8	190	146

Hardware

CPU:	Intel Xeon MP (3.0GHz, 400MHz bus)
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	1,2,4,8
Parallel:	No
Primary Cache:	12K micro-ops I + 8KBD on chip
Secondary Cache:	512KB(I+D) on chip
L3 Cache:	4096KB(I+D) on chip
Other Cache:	64 MB per 4 CPUs (chips)
Memory:	4x1024MB PC1600
Disk Subsystem:	2x36GB 10K Ultra320 SCSI
Other Hardware:	

Software

Operating System:	Windows 2003 Advanced Server (SP3)
Compiler:	Intel C++ Compiler 8.0 Build 20031211Z Microsoft Visual Studio .NET 7.0.9466 (for libraries)
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
Base tuning for C programs:   -QxN -Qipo -O3 +FDO ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +FDO ONESTEP=yes
Portability flags:
  176.gcc: -Dalloca=_alloca /F10000000
  186.crafy: -DNT_i386
  253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
  254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
  164.gzip:     -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes
  175.vpr:      -QxN -Qipo -O3 +FDO ONESTEP=yes
  176.gcc:      -QxN -Qipo -Oi- -O3 +FDO ONESTEP=yes
  181.mcf:      -QxN -Qipo -O3 +FDO ONESTEP=yes
  186.crafty:   -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes
  197.parser:   -QxN -Qipo -O3 +FDO ONESTEP=yes
  252.eon:      -QxN -Qipo -O3 +FDO ONESTEP=yes
  253.perlbmk:  -Qipo -Oa -O3 +FDO ONESTEP=yes
  254.gap:      -QxN -Qipo -O3 +FDO ONESTEP=yes
  255.vortex:   -QxN -Qipo -O3 +FDO ONESTEP=yes
  256.bzip2:    -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```

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Notes/Tuning Information (Continued)

```
  300.twolf:    -QxN -Qipo -O3 +FDO ONESTEP=yes
BIOS Configuration Notes
  Hyper Threading disabled
```