CINT2000 Result

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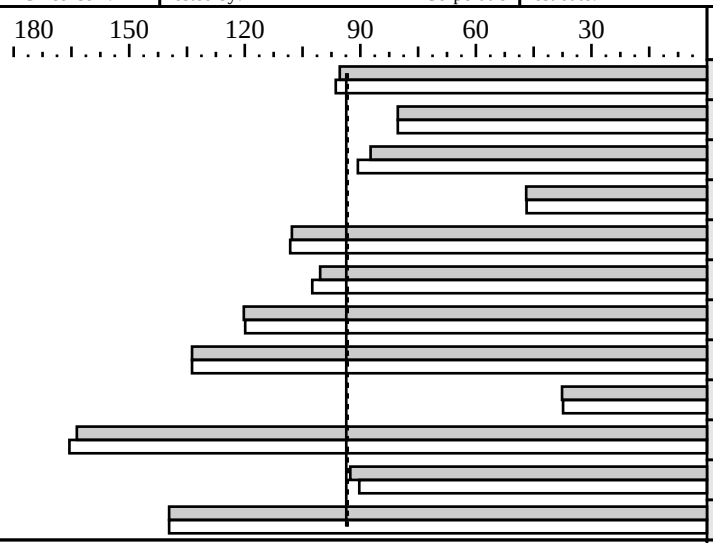
IBM Corporation

IBM xSeries 445 (3.0GHz, Intel Xeon MP)

SPECint_rate2000 = 93.7

SPECint_rate_base2000 = 93.3

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	136	95.3	8	135	96.4
175.vpr	8	162	80.3	8	162	80.3
176.gcc	8	117	87.3	8	113	90.6
181.mcf	8	356	46.9	8	357	46.8
186.crafty	8	86.1	108	8	85.8	108
197.parser	8	166	100	8	163	102
252.eon	8	100	120	8	101	120
253.perlbmk	8	125	134	8	125	134
254.gap	8	271	37.6	8	273	37.4
255.vortex	8	108	164	8	107	166
256.bzip2	8	150	92.6	8	154	90.3
300.twolf	8	199	140	8	199	140

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:	2,4,8,16,32
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:	64MB per 4 CPUs (chips)
Memory:	8x512MB PC1600
Disk Subsystem:	2x36GB 10K Ultra320 SCSI
Other Hardware:	

Software

Operating System:	SUSE Linux
Compiler:	Intel(R) C++ Compiler for 32-bit applications Version 8.0 Build 20031016Z
File System:	Reiserfs
System State:	Default

Notes/Tuning Information

```
Portability flags:
  186.crafty:  -DLINUX_i386
  252.eon:     -DHAS_ERRLIST
               srcalt=fmax_errno
  253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
               -DSPEC_CPU2000_GLIBC22
  254.gap:     -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
               -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
Base tuning:
  C programs:   -xW -fast +FDO
  C++ programs: -xW -O3 -ipo +FDO
  +FDO:         PASS1=-prof_gen  PASS2=-prof_use
Peak tuning:
  164.gzip:    -xW -O3 -ipo -Oa -unroll8 -Zp4 +FDO
  175.vpr:     basepeak = YES
  176.gcc:     -xW -O3 -ipo -ansi_alias +FDO
  181.mcf:     -xW -O3 -ipo -static -unroll4 +FDO
  186.crafty:  -xW -O3 -ipo -static +FDO
  197.parser:  -xW -O3 -ipo -static -tpp7 -unroll4 +FDO
  252.eon:     -xW -O3 -ipo -ansi_alias +FDO
```

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Notes/Tuning Information (Continued)

```
    253.perlbmk: basepeak = YES
    254.gap:     -xW -O3 -ipo -static +FDO
    255.vortex:  -xW -O3 -ipo -ansi_alias -static -tpp7 -unroll8 -Zp4 +FDO
    256.bzip2:   -xW -O3 -ipo -ansi_alias +FDO
    300.twolf:   basepeak = YES
  BIOS Configuration Notes
    Hyper-threading disabled
```