CINT2000 Result

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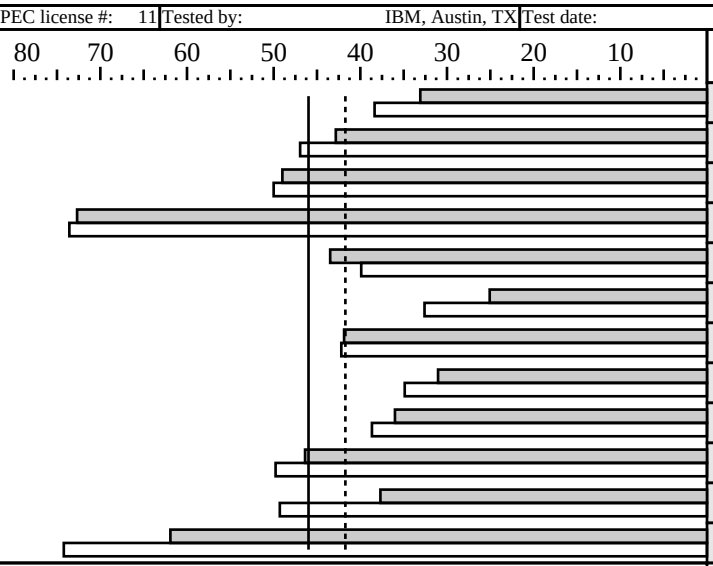
IBM Corporation
RS/6000 SP-375MHz High Node(16 CPU)

SPECint_rate2000 = 46.0

SPECint_rate_base2000 = 41.7

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jun-2000 | Hardware Avail: Aug-2000 | Software Avail: Jul-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	785	33.1	16	677	38.4
175.vpr	16	607	42.8	16	553	46.9
176.gcc	16	417	49.0	16	408	50.0
181.mcf	16	460	72.7	16	454	73.6
186.crafty	16	427	43.5	16	465	39.9
197.parser	16	1332	25.1	16	1025	32.6
252.eon	16	576	41.9	16	572	42.2
253.perlbmk	16	1077	31.0	16	958	34.9
254.gap	16	567	36.0	16	528	38.7
255.vortex	16	760	46.4	16	708	49.8
256.bzip2	16	739	37.7	16	565	49.3
300.twolf	16	899	61.9	16	750	74.2

Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	4,8,12,16
Parallel:	None
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	8MB unified (off chip, per CPU)
L3 Cache:	None
Other Cache:	None
Memory:	32GB
Disk Subsystem:	2x18GB SCSI, 7200RPM
Other Hardware:	Ethernet

Software

Operating System:	AIX 4.3.3 plus beta of APAR IY11202
Compiler:	C: IBM VAC 5.0.1 invoked as 'cc' except where noted as 'xlc' C++: IBM C++ 3.6.6.0 invoked as 'xlC'
File System:	AIX/JFS
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags:
  gcc: -ma -qlanglvl=ansi -DHOST_WORDS_BIG_ENDIAN
  crafty: -DAIX
  eon: -DNEED_EXPLICIT_SPECIALIZATION
  perlbmk: -DSPEC_CPU2000_AIX
  gap: -DSYS_IS_BSD -DSYS_STRING_H -DSYS_HAS_TIME_PROTO -DSYS_HAS_MALLOC_PROTO -DSYS_HAS_CALLOC_PROTO
  twolf: -DHAVE_SIGNED_CHAR
Base Optimization Flags:
  C:   -qpdf1/pdf2 -O3 -lhmu -qarch=pwr3
  C++: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=pwr3
Peak Optimization Flags
  175.vpr:     CC=xlc, -O4 -qarch=ppc, -bnso -bI:/lib/syscalls.exp
  176.gcc:     -qpdf1/pdf2 -O3 -lhmu -qarch=pwr3, fdpr -v -R3
  181.mcf:     -O4
  186.crafty:  -O4, fdpr -v -R3
  197.parser:  CC=xlc, -qpdf1/pdf2 -O4 -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
  252.eon:     -qpdf1/pdf2 -O3 -lhmu -qarch=ppc -qtune=pwr3, fdpr -v -R3
  253.perlbmk: -qpdf1/pdf2 -O3 -lhmu -qarch=pwr3 -qdatalocal -qunroll=8, fdpr -v -R3
  254.gap:     -O4 -qarch=pwr3, fdpr -v -R3
  255.vortex:  -qpdf1/pdf2 -O5 -lhmu -Q=500
```

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Notes/Tuning Information (Continued)

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256.bzip2:   -O5 -qunroll=8,fdpr -v -R3
300.twolf:   CC=xlc, -qpdf1/pdf2 -O5, fdpr -v -R3
```