CINT2000 Result

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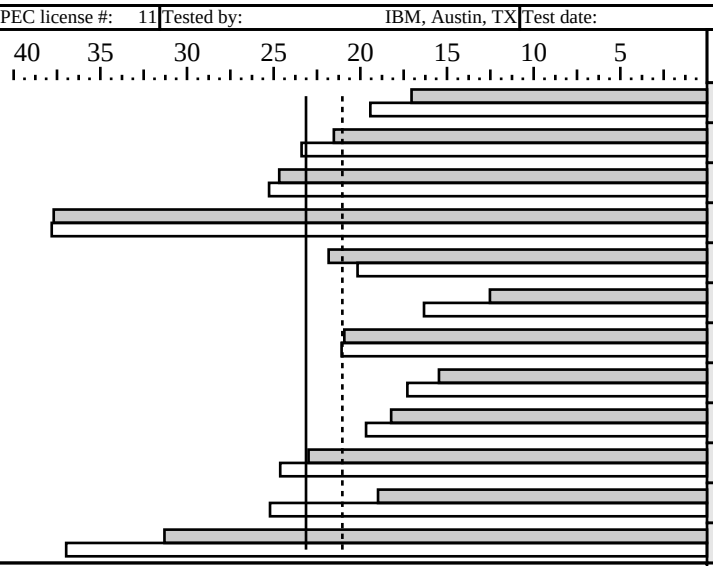
IBM Corporation
RS/6000 SP-375MHz High Node(8 CPU)

SPECint_rate2000 = 23.1

SPECint_rate_base2000 = 21.0

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	8	762	17.0	8	669	19.4
175.vpr	8	603	21.5	8	555	23.4
176.gcc	8	414	24.7	8	404	25.3
181.mcf	8	443	37.7	8	442	37.8
186.crafty	8	425	21.8	8	460	20.2
197.parser	8	1334	12.5	8	1023	16.3
252.eon	8	577	20.9	8	572	21.1
253.perlbmk	8	1080	15.5	8	966	17.3
254.gap	8	560	18.2	8	519	19.7
255.vortex	8	767	23.0	8	716	24.6
256.bzip2	8	733	19.0	8	552	25.2
300.twolf	8	889	31.3	8	753	37.0

Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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
NOTE: 16 CPUs were installed, but 8 were disabled via the service processor setup menu.
```