CINT2000 Result

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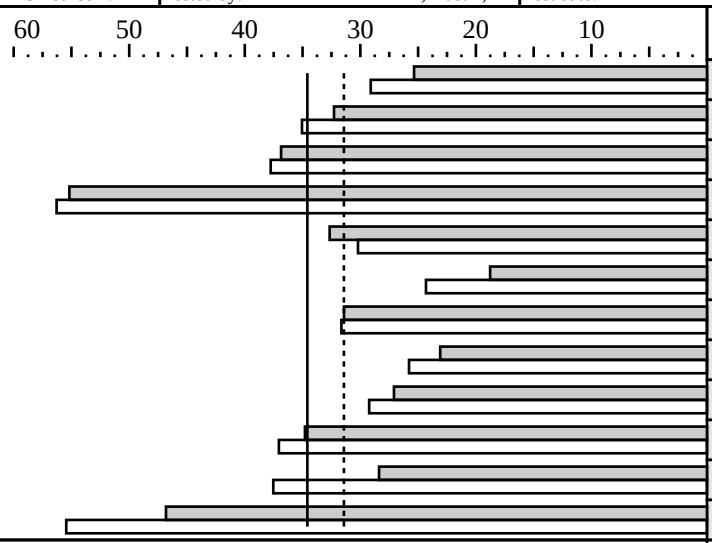
IBM Corporation
RS/6000 SP-375MHz High Node(12 CPU)

SPECint_rate2000 = 34.6

SPECint_rate_base2000 = 31.4

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	12	769	25.4	12	670	29.1
175.vpr	12	604	32.3	12	556	35.0
176.gcc	12	415	36.9	12	406	37.8
181.mcf	12	454	55.2	12	445	56.3
186.crafty	12	426	32.7	12	461	30.2
197.parser	12	1335	18.8	12	1030	24.3
252.eon	12	576	31.4	12	572	31.6
253.perlbmk	12	1085	23.1	12	972	25.8
254.gap	12	565	27.1	12	524	29.2
255.vortex	12	760	34.8	12	714	37.0
256.bzip2	12	736	28.4	12	556	37.5
300.twolf	12	892	46.8	12	753	55.5

Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	12 cores, 12 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 4 were disabled via the service processor setup menu.
```