CINT2000 Result

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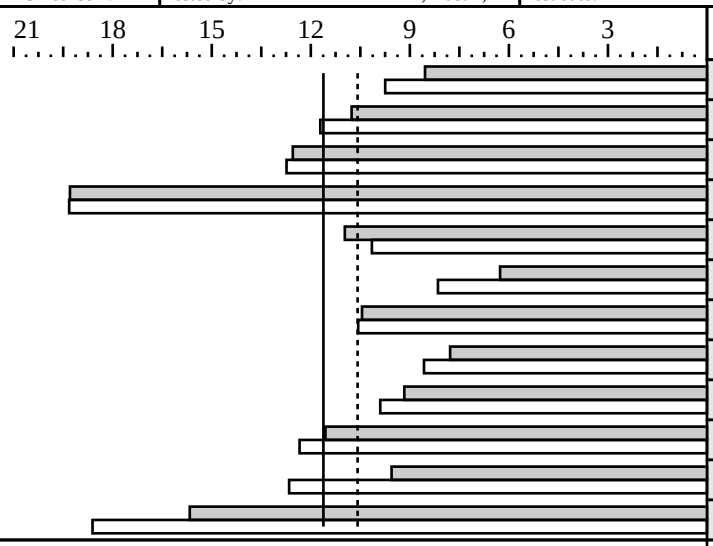
IBM Corporation
RS/6000 SP-375MHz High Node(4 CPU)

SPECint_rate2000 = 11.6

SPECint_rate_base2000 = 10.6

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	4	761	8.54	4	666	9.75
175.vpr	4	603	10.8	4	555	11.7
176.gcc	4	407	12.5	4	401	12.7
181.mcf	4	433	19.3	4	432	19.3
186.crafty	4	423	11.0	4	457	10.1
197.parser	4	1333	6.27	4	1025	8.15
252.eon	4	577	10.4	4	571	10.6
253.perlbmk	4	1073	7.78	4	974	8.57
254.gap	4	557	9.17	4	516	9.90
255.vortex	4	763	11.6	4	714	12.3
256.bzip2	4	728	9.55	4	550	12.7
300.twolf	4	889	15.7	4	748	18.6

Hardware

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