



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.zip	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.perlbnk	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
perlbnk: -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 -lhm -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 -lhm -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 -lhm -qarch=ppc -qtune=pwr3, fdpr -v -R3
253.perlbnk: -qpdf1/pdf2 -O3 -lhm -qarch=pwr3 -qdatalocal -qunroll=8, fdpr -v -R3
254.gap: -O4 -qarch=pwr3, fdpr -v -R3
255.vortex: -qpdf1/pdf2 -O5 -lhm -Q=500
```



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Notes/Tuning Information (Continued)

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.