



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.perlbnk	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
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 -lhma -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 -lhma -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 -lhma -qarch=ppc -qtune=pwr3, fdpr -v -R3
253.perlbnk: -qpdf1/pdf2 -O3 -lhma -qarch=pwr3 -qdatalocal -qunroll=8, fdpr -v -R3
254.gap: -O4 -qarch=pwr3, fdpr -v -R3
255.vortex: -qpdf1/pdf2 -O5 -lhma -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 8 were disabled via the service processor setup menu.