



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6E1 333MHz

SPECint_rate2000 = 5.57

SPECint_rate_base2000 = 5.21

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Jan-2002 | Hardware Avail: Feb-2002 | Software Avail: Feb-2002

9 8 7 6 5 4 3 2 1										Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
										164.gzip	2	718	4.53	2	705	4.61
										175.vpr	2	630	5.15	2	623	5.21
										176.gcc	2	446	5.72	2	446	5.72
										181.mcf	2	609	6.85	2	609	6.85
										186.crafty	2	489	4.74	2	379	6.12
										197.parser	2	1238	3.37	2	1125	3.71
										252.eon	2	444	6.79	2	441	6.83
										253.perlbnk	2	1065	3.92	2	923	4.52
										254.gap	2	532	4.80	2	531	4.81
										255.vortex	2	873	5.05	2	690	6.39
										256.bzip2	2	662	5.26	2	641	5.43
										300.twolf	2	872	7.98	2	851	8.17

Hardware

CPU: POWER3-II
CPU MHz: 333
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 32KBI+64KBD (on chip)
Secondary Cache: 4MB unified (off chip)
L3 Cache: None
Other Cache: None
Memory: 2GB
Disk Subsystem: 2x18GB 10000RPM
Other Hardware: None

Software

Operating System: AIX 5L V5.1
Compiler: IBM VisualAge C++ for AIX, Version 5.0.2.1
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
      EXTRA_LDFLAGS=-I. -DNDEBUG
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: -O4 -lmass
C++: -O4 -lmass
```

Peak Optimization Flags

```
164.gzip: -O4 -lhmu, fdpr -v -R3 -p -x
175.vpr: -O5 -qunroll=8
176.gcc: (basepeak=1)
181.mcf: (basepeak=1)
186.crafty: -O3 -lhmu -q64
197.parser: -qpdf1/pdf2 -O4 -lpdf
          -bnso -bI:/lib/syscalls.exp, fdpr -v -R3 -p -x
```



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Notes/Tuning Information (Continued)

```
252.eon:      -O4 -lmass, fdpr -v -R3 -p -x
253.perlbnk:  -qpdf1/pdf2 -O3 -lhm -lpdf -qarch=pwr3
              -qdatalocal -qunroll=8, fdpr -R3 -p -x
254.gap:      -O4 -qarch=pwr3, fdpr -v -R3 -p -x
255.vortex:   -O3 -lhm -lmass -qipa=partition=large,
              fdpr -v -R3 -p -x
256.bzip2:    -O5 -qunroll=8
300.twolf:    -qpdf1/pdf2 -O5 -lpdf, fdpr -v -R3 -p -x
              CC=/usr/vac/bin/xlc
```

fpdr: Feedback directed program restructuring tool

APAR IY22854 was applied to AIX 5L V5.1 to enable new hardware support
ulimits set to unlimited.

C: IBM VAC++ 5.0.2.1 invoked as cc except where noted as xlc

C++: IBM VAC++ 5.0.2.1 invoked as xlc