



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6E1 450MHz

SPECint2000 = 334

SPECint_base2000 = 313

SPEC license #: 11 Tested by: IBM Corp. Test date: Oct-2001 Hardware Avail: Oct-2001 Software Avail: Dec-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	100 200 300 400 500 600					
164.gzip	1400	530	264	532	263	[Bar chart showing ratio 263]					
175.vpr	1400	440	318	435	322	[Bar chart showing ratio 322]					
176.gcc	1100	328	336	328	336	[Bar chart showing ratio 336]					
181.mcf	1800	357	504	357	504	[Bar chart showing ratio 504]					
186.crafty	1000	359	278	278	360	[Bar chart showing ratio 360]					
197.parser	1800	897	201	824	219	[Bar chart showing ratio 219]					
252.eon	1300	331	393	331	393	[Bar chart showing ratio 393]					
253.perlbnk	1800	777	232	671	268	[Bar chart showing ratio 268]					
254.gap	1100	403	273	403	273	[Bar chart showing ratio 273]					
255.vortex	1900	640	297	505	376	[Bar chart showing ratio 376]					
256.bzip2	1500	473	317	457	328	[Bar chart showing ratio 328]					
300.twolf	3000	634	473	618	485	[Bar chart showing ratio 485]					

Hardware

CPU: POWER3-II
CPU MHz: 450
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 32KBI+64KBD (on chip)
Secondary Cache: 8MB 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: C: IBM VAC++ 5.0.2.0 invoked as cc except where noted as xlc
C++: IBM VAC++ 5.0.2.0 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: -O4 -lmass
C++: -O4 -lmass
```

Peak Optimization Flags

```
164.gzip: -O4 -lhmu, fdpr -R3 -p -x -o
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 -R3 -p -x
252.eon: -O4 -lmass, fdpr -R3 -p -x -o
```



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Notes/Tuning Information (Continued)

```
253.perlbnk: -qpdf1/pdf2 -O3 -lhmu -lpdf -qarch=pwr3
              -qdatalocal -qunroll=8, fdpr -R3 -p -x
254.gap:      -O4 -qarch=pwr3, fdpr -R3 -p -x -o
255.vortex:   -O3 -lhmu -lmass -qipa=partition=large,
              fdpr -v -R3 -p -x
256.bzip2:    -O5 -qunroll=8, fdpr -R3 -p -x -o
300.twolf:    -qpdf1/pdf2 -O5 -lpdf, fdpr -R3 -p -x
              CC=/usr/vac/bin/xlc
fpdr: Feedback directed program restructuring tool
APAR IY 21957 was applied to AIX 5L V5.1 to enable new hardware support
```