



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6E1 333MHz

SPECint2000 = 241

SPECint_base2000 = 226

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	711	197	703	199	
175.vpr	1400	627	223	622	225	
176.gcc	1100	445	247	445	247	
181.mcf	1800	585	308	585	308	
186.crafty	1000	489	204	379	264	
197.parser	1800	1238	145	1124	160	
252.eon	1300	450	289	443	293	
253.perlbnk	1800	1060	170	922	195	
254.gap	1100	525	209	525	210	
255.vortex	1900	873	218	691	275	
256.bzip2	1500	658	228	643	233	
300.twolf	3000	860	349	849	353	

Hardware

CPU: POWER3-II
 CPU MHz: 333
 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: 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