



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

IBM Corporation  
RS/6000 44P-170 (450 MHz)

SPECint2000 = 346  
SPECint\_base2000 = 333

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: May-2002 | Hardware Avail: Oct-2000 | Software Avail: Apr-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	100 200 300 400 500 600					
164.gzip	1400	527	266	506	277	[Bar chart showing ratio 277]					
175.vpr	1400	423	331	419	334	[Bar chart showing ratio 334]					
176.gcc	1100	311	354	311	354	[Bar chart showing ratio 354]					
181.mcf	1800	357	505	357	505	[Bar chart showing ratio 505]					
186.crafty	1000	314	319	280	357	[Bar chart showing ratio 357]					
197.parser	1800	843	213	774	232	[Bar chart showing ratio 232]					
252.eon	1300	322	404	321	405	[Bar chart showing ratio 405]					
253.perlbnk	1800	673	268	645	279	[Bar chart showing ratio 279]					
254.gap	1100	389	283	383	287	[Bar chart showing ratio 287]					
255.vortex	1900	502	379	502	379	[Bar chart showing ratio 379]					
256.bzip2	1500	470	319	427	352	[Bar chart showing ratio 352]					
300.twolf	3000	632	475	594	505	[Bar chart showing ratio 505]					

### Hardware

CPU: POWER3-II  
 CPU MHz: 450  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 32KBI+64KBD (on chip)  
 Secondary Cache: 8MB unified (off chip)  
 L3 Cache: None  
 Other Cache: None  
 Memory: 512MB  
 Disk Subsystem: 1x9.1GB SCSI  
 Other Hardware: None

### Software

Operating System: AIX 5L V5.1  
 Compiler: IBM VisualAge C++ for AIX, Version 6.0 BETA  
 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
175.vpr: -O5 -qunroll=8
176.gcc: basepeak=1
181.mcf: basepeak=1
186.crafty: -O3 -lhmu -q64
197.parser: -qpdf1/pdf2 -O4 -lpdf -L/usr/vac/lib
    -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
```



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

IBM Corporation  
RS/6000 44P-170 (450 MHz)

SPECint2000 =	346
SPECint_base2000 =	333

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: May-2002 | Hardware Avail: Oct-2000 | Software Avail: Apr-2002

## Notes/Tuning Information (Continued)

```
252.eon:      -O4 -lmass, fdpr -v -R3
253.perlbnk:  -qpdf1/pdf2 -O3 -lhmu -lpdf -L/usr/vac/lib
              -qarch=pwr3 -qdatalocal -qunroll=8
254.gap:      -O4 -qarch=pwr3, fdpr -v -R3
255.vortex:   basepeak=1
256.bzip2:    -O5 -qunroll=8
300.twolf:    CC=/usr/vac/bin/xlc, -qpdf1/pdf2 -O5
              -lpdf -L/usr/vac/lib, fdpr -v -R3
fdpr: Feedback directed program restructuring tool.
/usr/spec2000 filesystem mounted with no JFS log file I/O.
APAR IY31315 was applied to AIX 5L V5.1 to enable new hardware support.
ulimits set to unlimited.
C: IBM VAC++ invoked as cc except where noted as xlc.
C++: IBM VAC++ invoked as xlc.
The final version of the beta compiler will be available by Sep-2002.
```