



CINT2000 Result

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IBM Corporation
RS/6000 44P-170 (400MHz)

SPECint2000 = 280
SPECint_base2000 = 271

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	619	226	582	241	
175.vpr	1400	543	258	555	252	
176.gcc	1100	377	292	377	292	
181.mcf	1800	605	297	605	297	
186.crafty	1000	360	278	334	299	
197.parser	1800	989	182	917	196	
252.eon	1300	366	355	366	355	
253.perlbnk	1800	773	233	709	254	
254.gap	1100	429	257	422	261	
255.vortex	1900	611	311	611	311	
256.bzip2	1500	589	255	552	272	
300.twolf	3000	840	357	794	378	

Hardware

CPU: POWER3-II
CPU MHz: 400
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: 4MB 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
```



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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.