



CINT2000 Result

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IBM Corporation
RS/6000 SP-375MHz T/W (1 CPU)

SPECint2000 = 260
SPECint_base2000 = 248

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	727	192	672	208	
175.vpr	1400	573	244	540	259	
176.gcc	1100	381	289	381	289	
181.mcf	1800	389	463	379	475	
186.crafty	1000	402	249	388	257	
197.parser	1800	1257	143	991	182	
252.eon	1300	561	232	561	232	
253.perlbnk	1800	914	197	914	197	
254.gap	1100	499	220	471	234	
255.vortex	1900	627	303	625	304	
256.bzip2	1500	702	214	657	228	
300.twolf	3000	800	375	797	376	

Hardware

CPU: Power3-II
 CPU MHz: 375
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 2,4
 Parallel: None
 Primary Cache: 32KBI+64KBD (on chip)
 Secondary Cache: 8MB unified (off chip)
 L3 Cache: None
 Other Cache: None
 Memory: 4GB
 Disk Subsystem: 2x9.1GB IBM Fast/Wide SCSI 7200 RPM
 Other Hardware: Ethernet

Software

Operating System: AIX 4.3.3
 Compiler: C: IBM VAC 5.0 invoked as 'cc' except where noted as 'xlc'
 C++: IBM C++ 3.6.6.1 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
```

NOTE: The flag combination "qpdf1/qpdf2" indicates a 2 step compilation process the exact process is as follows:

```
fdo_pre0 = rm -rf ${PDFDIR}; mkdir -p ${PDFDIR}
PASS1_FLAGS    ==qpdf1 <optimization flags>
PASS1_LDFLAGS  =<optimized libraries> -L<pdf library location> -lpdf
PASS2_FLAGS    ==qpdf2 <optimization flags>
PASS2_LDFLAGS  ==<optimized libraries>
```

Base Flags:

```
C: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmh
C++: -qpdf1/pdf2 -O3 qarch=ppc qtune=pwr3
```

Peak Flags:

```
164.gzip: xlc -O5
175.vpr: xlc -qpdf1/pdf2 -O3 -qarch=pwr3 -bnso -bI:/lib/syscalls.exp
```



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Notes/Tuning Information (Continued)

```
176.gcc: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmuhmu
181.mcf: xlc -qpdf1/pdf2 -O5 -bnso -bI:/lib/syscalls.exp
186.crafty: xlc -qpdf1 -O3 -Q=500 -qarch=pwr3
197.parser: xlc -O5 -qipa=partition=large -bnso -bI:/lib/syscalls.exp
252.eon: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=pwr3 -lhmuhmu
253.perlbnk: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmuhmu
254.gap: -O5 -qansialias -lhmuhmu
255.vortex: -qpdf1/pdf2 -O5 -Q=500
256.bzip2: xlc -O3 -qarch=pwr3 -lhmuhmu
300.twolf: xlc -O5 -Q=500 -lhmuhmu
```

NOTE: 2 CPUs were installed, but one was disabled via the service processor setup menu.