



# CINT2000 Result

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IBM Corporation

IBM eServer pSeries 620 Model 6F1 (750 MHz)

SPECint\_rate2000 = 20.5

SPECint\_rate\_base2000 = 19.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	405	16.1	4	379	17.2
175.vpr	4	284	22.9	4	284	22.9
176.gcc	4	258	19.7	4	258	19.7
181.mcf	4	263	31.7	4	263	31.7
186.crafty	4	241	19.2	4	199	23.3
197.parser	4	575	14.5	4	524	15.9
252.eon	4	357	16.9	4	352	17.1
253.perlbnk	4	622	13.4	4	561	14.9
254.gap	4	390	13.1	4	382	13.4
255.vortex	4	460	19.2	4	422	20.9
256.bzip2	4	289	24.1	4	268	26.0
300.twolf	4	447	31.1	4	418	33.3

### Hardware

CPU: RS64 IV  
 CPU MHz: 750  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
 CPU(s) orderable: 1,2,4,6  
 Parallel: No  
 Primary Cache: 128KBI+128KBD (on chip)  
 Secondary Cache: 8MB unified (off chip)  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4GB  
 Disk Subsystem: 2x4.5GB  
 Other Hardware: None

### Software

Operating System: AIX 5L V5.1  
 Compiler: C: IBM VisualAge C for AIX, Version 6.0 Beta  
 C++: 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
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 Flags:

```
C: -O4
C++: -qpdf1/pdf2 -O3 qarch=ppc qtune=rs64b
```

### Peak Flags:

```
164.gzip: CC=/usr/vac/bin/xlc -O5 -qarch=ppc -qfdpr,
175.vpr: basepeak=1
176.gcc: basepeak=1
181.mcf: basepeak=1
186.crafty: -O4 -lhm -q64 -qfdpr, fdpr -v -R3
197.parser: -qpdf1/pdf2 CC=/usr/vac/bin/xlc -O4
            -qarch=rs64b -L/usr/vac/lib -bnso
            -bI:/lib/syscalls.exp -qfdpr, fdpr -v -R3
```



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## Notes/Tuning Information (Continued)

```
252.eon:      -qpdf1/pdf2 -O3 -qarch=ppc -qtune=rs64b
              -L/usr/vac/lib -qfdpr, fdpr -v -R3
253.perlbmk:  -qpdf1/pdf2 -O3 -qarch=rs64b -lhmu -qdatalocal
              -qunroll=8 -L/usr/vac/lib
254.gap:      -O4 -qarch=rs64b -qfdpr, fdpr -v -R3
255.vortex:   -O5 -lhmu -qipa=partition=large -qfdpr,
              fdpr -v -R2
256.bzip2:    -O5 -lhmu -qfdpr, fdpr -v -R3
300.twolf:    CC=/usr/vac/bin/xlc -qpdf1/pdf2 -O5
              -L/usr/vac/lib -qfdpr, fdpr -v -R3
```

fdpr: Feedback directed program restructuring tool  
APAR IY28102 was applied to AIX 5L V5.1 to enable new hardware  
/usr/spec2000 filesystem mounted with no JFS log file I/O  
ulimits set to unlimited.

C: IBM VAC++ for AIX 6.0 BETA invoked as cc except  
where noted as xlc

C++: IBM VAC++ for AIX 6.0 BETA invoked as xlc

The final version of the compiler will be available by Dec-2002.