



# CINT2000 Result

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IBM Corporation

IBM eServer pSeries 620 Model 6F0 (750 MHz)

SPECint2000 = 458

SPECint\_base2000 = 431

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	398	352	372	377	
175.vpr	1400	277	506	277	506	
176.gcc	1100	254	434	254	434	
181.mcf	1800	214	841	214	841	
186.crafty	1000	241	415	199	502	
197.parser	1800	572	315	521	345	
252.eon	1300	357	364	351	370	
253.perlbmk	1800	620	290	559	322	
254.gap	1100	359	306	352	313	
255.vortex	1900	457	416	419	454	
256.bzip2	1500	280	535	261	576	
300.twolf	3000	445	675	417	720	

### Hardware

CPU: RS64 IV  
CPU MHz: 750  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1,2,4  
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
perlbmk: -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 -lhma -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.