



# CINT2000 Result

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## IBM Corporation

IBM eServer pSeries 620 Model 6F1 (668MHz,8MB L2)

SPECint\_rate2000 = 26.5

SPECint\_rate\_base2000 = 24.9

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Mar-2001 | Hardware Avail: Apr-2001 | Software Avail: Apr-2001

					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
45	40	35	30	25	164.zip	6	440	22.1	6	422	23.1
					175.vpr	6	331	29.4	6	324	30.1
					176.gcc	6	306	25.0	6	301	25.4
					181.mcf	6	315	39.7	6	312	40.1
					186.crafty	6	306	22.7	6	237	29.4
					197.parser	6	668	18.8	6	595	21.0
					252.eon	6	417	21.7	6	415	21.8
					253.perlbnk	6	709	17.7	6	611	20.5
					254.gap	6	470	16.3	6	465	16.5
					255.vortex	6	540	24.5	6	494	26.8
					256.bzip2	6	331	31.6	6	323	32.3
					300.twolf	6	500	41.7	6	489	42.7

### Hardware

CPU: RS64 IV  
 CPU MHz: 668  
 FPU: Integrated  
 CPU(s) enabled: 6 cores, 6 chips, 1 core/chip  
 CPU(s) orderable: 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: 2x9.1GB SCSI  
 Other Hardware: Ethernet

### Software

Operating System: AIX 4.3.3  
 Compiler: C: IBM VAC 5.0.1 invoked as 'cc' except where noted noted as 'xlc'; C++: IBM C++ 5.0.0 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
```

### Base Flags:

```
C: -O5 -lhmua
C++: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=rs64b
```

### Peak Flags:

```
164.zip: CC=/usr/vac/bin/xlc -O5 -qarch=ppc, fdpr -v -R3
175.vpr: CC=/usr/vac/bin/xlc, -O3 -qpdf1/pdf2 -qarch=rs64b -Q=500 -L/usr/vac/lib -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
176.gcc: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmua -L/usr/vac/lib, fdpr -v -R3
181.mcf: -O5 -lhmua
186.crafty: -O4 -lhmua -q64, fdpr -v -R3
197.parser: -qpdf1/pdf2 CC=/usr/vac/bin/xlc -O4 -qarch=rs64b -L/usr/vac/lib -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
252.eon: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=rs64b -L/usr/vac/lib, fdpr -v -R3
253.perlbnk: -qpdf1/pdf2 -O3 -qarch=rs64b -lhmua -qdatalocal -qunroll=8 -L/usr/vac/lib, fdpr -v -R3
254.gap: -O4 -qarch=rs64b, fdpr -v -R3
```



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## Notes/Tuning Information (Continued)

```
255.vortex: -qpdf1/pdf2 -O5 -Q=500 -lhm -L/usr/vac/lib
256.bzip2: -O5 -lhm, fdpr -v -R3
300.twolf: CC=/usr/vac/bin/xlc, -O5 -qpdf1/pdf2 -L/usr/vac/lib, fdpr -v -R3
Tests were run with APAR IY 17356 applied to AIX 4.3.3 to enable new hardware support.
fdpr: Feedback directed program restructuring tool
```