



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 620 Model 6F1 (600 MHz, 4MB L2)

SPECint_rate2000 = 15.0

SPECint_rate_base2000 = 14.1

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
164.gzip	4	485	13.4	4	463	14.0
175.vpr	4	396	16.4	4	388	16.8
176.gcc	4	341	15.0	4	339	15.1
181.mcf	4	585	14.3	4	595	14.0
186.crafty	4	341	13.6	4	263	17.6
197.parser	4	764	10.9	4	681	12.3
252.eon	4	463	13.0	4	461	13.1
253.perlbnk	4	792	10.5	4	683	12.2
254.gap	4	490	10.4	4	485	10.5
255.vortex	4	611	14.4	4	560	15.7
256.bzip2	4	395	17.6	4	386	18.0
300.twolf	4	563	24.7	4	558	25.0

Hardware

CPU: RS64 IV
 CPU MHz: 600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 2,4
 Parallel: No
 Primary Cache: 128KBI+128KBD (on chip)
 Secondary Cache: 4MB unified (off chip)
 L3 Cache: None
 Other Cache: None
 Memory: 2GB
 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 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 -lhmud
C++: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=rs64b
```

Peak Flags:

```
164.gzip: 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 -lhmud -L/usr/vac/lib, fdpr -v -R3
181.mcf: -O5 -lhmud
186.crafty: -O4 -lhmud -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 -lhmud -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
```