CINT2000 Result

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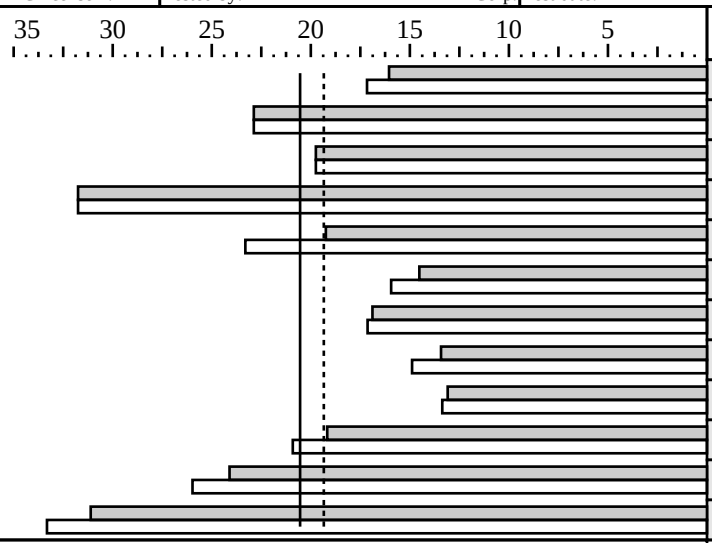
IBM Corporation

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.perlbmk	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
  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 -lhmu -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.
```