CINT2000 Result

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IBM Corporation

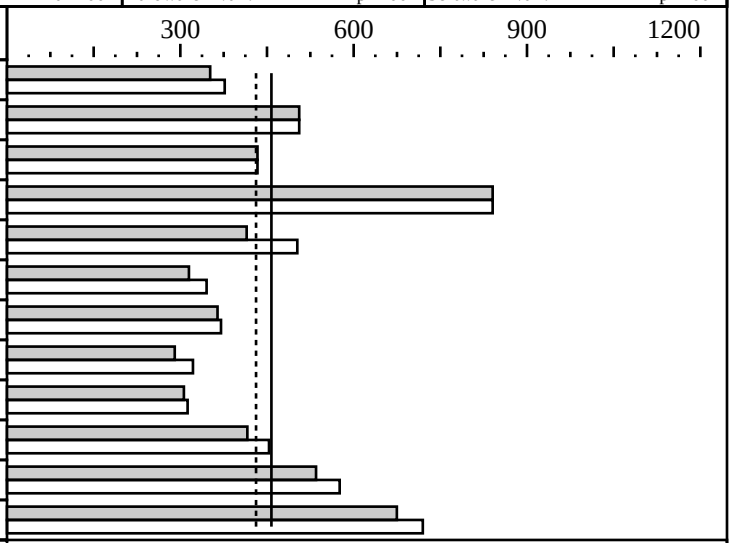
IBM eServer pSeries 620 Model 6F0 (750 MHz)

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 -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.
```