CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

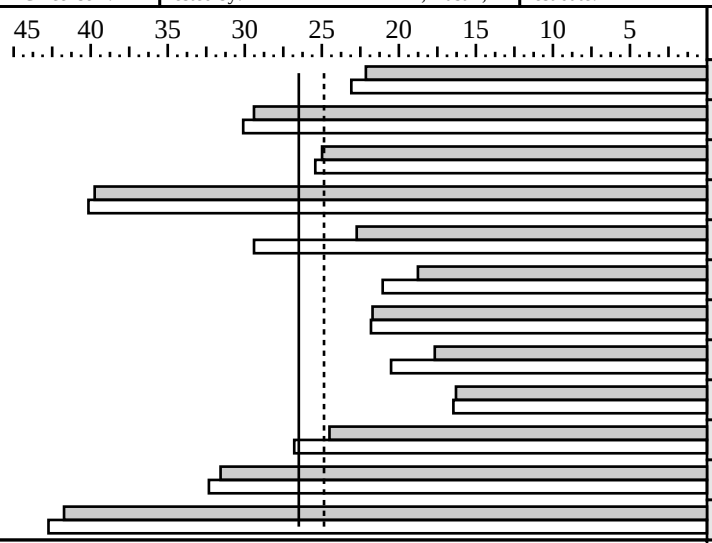
IBM Corporation

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
164.gzip	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.perlbmk	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
  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: -O5 -lhmu
  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 -lhmu -L/usr/vac/lib, fdpr -v -R3
   181.mcf:    -O5 -lhmu
   186.crafty: -O4 -lhmu -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.perlbmk:-qpdf1/pdf2 -O3 -qarch=rs64b -lhmu -qdatalocal -qunroll=8 -L/usr/vac/lib, fdpr -v -R3
   254.gap:    -O4  -qarch=rs64b, fdpr -v -R3
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
255.vortex:  -qpdf1/pdf2 -O5 -Q=500 -lhmu  -L/usr/vac/lib
256.bzip2:  -O5 -lhmu, 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
```