



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 655 Model 651 (1300 MHz, 1 CPU)

SPECint2000 = 848

SPECint_base2000 = 822

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Oct-2002 | Hardware Avail: Dec-2002 | Software Avail: Dec-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	230	609	230	609	
175.vpr	1400	179	783	179	783	
176.gcc	1100	138	795	138	795	
181.mcf	1800	144	1247	138	1304	
186.crafty	1000	139	718	119	837	
197.parser	1800	397	453	397	453	
252.eon	1300	126	1030	126	1030	
253.perlbnk	1800	283	636	255	706	
254.gap	1100	127	867	127	867	
255.vortex	1900	150	1264	149	1271	
256.bzip2	1500	175	856	170	884	
300.twolf	3000	296	1012	287	1044	

Hardware

CPU: POWER4
 CPU MHz: 1300
 FPU: Integrated
 CPU(s) enabled: 1 core, 4 chips, 1 core/chip, 4 chips/MCM
 CPU(s) orderable: 1 MCM (order by # MCM)
 Parallel: No
 Primary Cache: 64KBI+32KBD (on chip) per core
 Secondary Cache: 1440KB unified (off chip) per chip
 L3 Cache: 128MB unified (off-chip) per MCM, 1 MCM in SUT (4 chips per MCM)
 Other Cache: None
 Memory: 16 GB
 Disk Subsystem: 1x18.2 GB SCSI
 Other Hardware: None

Software

Operating System: AIX 5L V5.1
 Compiler: IBM C for AIX, Version 6.0
 IBM VisualAge C++ Professional for AIX, Version 6.0
 File System: AIX/JFS
 System State: Multi-User

Notes/Tuning Information

Integer Portability Flags:

```
gcc:      -ma -DHOST_WORDS_BIG_ENDIAN
crafty:   -DAIX
eon:      -DNEED_EXPLICIT_SPECIALIZATION
          -I. -DNDEBUG
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 Optimization Flags:

```
C:
-qpdf1/pdf2
-O5 -blpdata -qalign=natural
C++:
-qpdf1/pdf2
-O5 -lhmu -qalign=natural
```

Integer Peak Optimization Flags

164.gzip



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Notes/Tuning Information (Continued)

```

BASEPEAK = 1
"CC      = /usr/vac/bin/xlc"
175.vpr
BASEPEAK = 1
176.gcc
BASEPEAK = 1
181.mcf
fdpr -v -R3
-O5 -blpdata
186.crafty
-qpdf1/pdf2
fdpr -v -R3
-O3 -q64
197.parser
-O5 -blpdata
252.eon
BASEPEAK = 1
253.perlbmk
-qpdf1/pdf2
-O5 -lhmu -qalign=natural
254.gap
BASEPEAK = 1
255.vortex
-qpdf1/pdf2
-O5 -lhmu -qalign=natural
256.bzip2
-qpdf1/pdf2
-O5 -blpdata -qarch=pwr3 -qtune=pwr3
300.twolf
-qpdf1/pdf2
-O5 -lhmu -qalign=natural -blpdata
"CC      = /usr/vac/bin/xlc"

```

MCM: Acronym for "Multi-Chip Module"
SUT: Acronym for "System Under Test"

3 processors were deconfigured through the configuration menu.

fpdr: Feedback directed program restructuring tool
/usr/spec2000 filesystem mounted with no JFS log file I/O.
APAR IY 35692 was applied to AIX to enable new hardware support.
ulimits set to unlimited.
C: IBM VAC++ invoked as cc except where noted as xlc
C++: IBM VAC++ invoked as xlc
Large page mode and memory affinity were set as follows:
vmtune64 -g 16777216 -L 32 -y1
chuser capabilities=CAP_BYPASS_RAC_VMM,CAP_PROPAGATE \$USER
bosboot -a
shutdown -r