



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 655 Model 651 (1100 MHz, 1 CPU)

SPECint2000 = 722

SPECint_base2000 = 700

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	271	517	271	517	
175.vpr	1400	210	666	210	666	
176.gcc	1100	163	675	163	675	
181.mcf	1800	165	1088	158	1139	
186.crafty	1000	164	609	141	711	
197.parser	1800	469	384	469	384	
252.eon	1300	149	871	149	871	
253.perlbnk	1800	334	539	303	594	
254.gap	1100	149	740	149	740	
255.vortex	1900	177	1074	176	1083	
256.bzip2	1500	206	728	199	752	
300.twolf	3000	349	859	339	886	

Hardware

CPU: POWER4
 CPU MHz: 1100
 FPU: Integrated
 CPU(s) enabled: 1 core, 4 chips, 2 cores/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 -lhu -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.perlbnk
-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"

7 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