



CINT2000 Result

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IBM Corporation
IBM eServer pSeries 655 (1500 MHz, 1 CPU)

SPECint2000 = **970**
SPECint_base2000 = **941**

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Apr-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	199	702	199	702	
175.vpr	1400	153	912	153	912	
176.gcc	1100	109	1005	109	1005	
181.mcf	1800	122	1476	115	1562	
186.crafty	1000	121	825	103	970	
197.parser	1800	448	402	436	413	
252.eon	1300	109	1188	109	1188	
253.perlbmk	1800	246	731	222	812	
254.gap	1100	111	993	111	993	
255.vortex	1900	131	1454	131	1446	
256.bzip2	1500	153	983	150	1000	
300.twolf	3000	243	1235	240	1250	

Hardware

CPU: POWER4+
 CPU MHz: 1500
 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: 1536KB unified (off chip) per chip
 L3 Cache: 128MB unified (off-chip) per MCM, 1 MCM in SUT
 Other Cache: None
 Memory: 32 GB
 Disk Subsystem: 1x36GB SCSI, 10K RPM
 Other Hardware: None

Software

Operating System: AIX 5L V5.2
 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:

```
176.gcc:      -ma -DHOST_WORDS_BIG_ENDIAN
186.crafty:   -DAIX
252.eon:      -DNEED_EXPLICIT_SPECIALIZATION
              -I. -DNDEBUG
253.perlbmk:  -DSPEC_CPU2000_AIX
254.gap:      -DSYS_IS_BSD -DSYS_STRING_H -DSYS_HAS_TIME_PROTO
              -DSYS_HAS_MALLOC_PROTO -DSYS_HAS_CALLOC_PROTO
300.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.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 43549 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:
vmo -r -o lpgg_regions=32 -o lpgg_size=16777216 -o memory_affinity=1
chuser capabilities=CAP_BYPASS_RAC_VMM,CAP_PROPAGATE $USER
shutdown -r
export MEMORY_AFFINITY=MCM

```