



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 630 Model 6E4 (1000 MHz, 1 CPU)

SPECint2000 = 639

SPECint_base2000 = 624

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	300	467	300	467	
175.vpr	1400	236	594	236	594	
176.gcc	1100	179	613	180	610	
181.mcf	1800	206	875	206	872	
186.crafty	1000	185	540	154	648	
197.parser	1800	518	347	518	347	
252.eon	1300	166	785	166	785	
253.perlbnk	1800	364	495	333	541	
254.gap	1100	174	632	174	632	
255.vortex	1900	192	989	192	988	
256.bzip2	1500	229	655	229	655	
300.twolf	3000	380	790	372	806	

Hardware

CPU: POWER4
 CPU MHz: 1000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip, 1 chip/SCM
 CPU(s) orderable: 1,2,4 (order by # cores)
 Parallel: No
 Primary Cache: 64KBI+32KBD (on chip) per core
 Secondary Cache: 1440KB unified (on chip) per chip
 L3 Cache: 32MB unified (off chip)/SCM, 1SCM in SUT
 Other Cache: None
 Memory: 4GB
 Disk Subsystem: 1x18.2GB SCSI
 Other Hardware: None

Software

Operating System: AIX 5L V5.1
 Compiler: IBM VisualAge C++ 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)

```
CC = /usr/vac/bin/xlc
BASEPEAK = 1
175.vpr
BASEPEAK = 1
176.gcc
-qpdf1/pdf2
-O5 -lhmu -qalign=natural
181.mcf
fdpr -v -R3
-O3 -lhmu -qipa=partition=large -blpdata
186.crafty
fdpr -v -R3
-O4 -q64
197.parser
BASEPEAK = 1
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
BASEPEAK = 1
300.twolf
CC = /usr/vac/bin/xlc
-qpdf1/pdf2
-O5 -lhmu -qalign=natural -blpdata
```

SCM: Acronym for "Single-Chip Module"
SUT: Acronym for "System Under Test"

fpdr: Feedback directed program restructuring tool.
/usr/spec2000 filesystem mounted with no JFS log file I/O.
APAR IY31315 was applied to AIX to enable new hardware support.
ulimits set to unlimited.
chuser capabilities=CAP_BYPASS_RAC_VMM,CAP_PROPAGATE \$USER
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:
vmtune -g 16777216 -L 200 -y1