



# CINT2000 Result

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## IBM Corporation

IBM eServer pSeries 615 Model 6E3 (1200 MHz, 1 CPU)

SPECint2000 = 822

SPECint\_base2000 = 739

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	253	553	253	553	
175.vpr	1400	196	715	196	715	
176.gcc	1100	136	811	136	811	
181.mcf	1800	153	1177	146	1236	
186.crafty	1000	155	646	125	799	
197.parser	1800	564	319	264	681	
252.eon	1300	137	949	137	949	
253.perlbmk	1800	309	582	274	658	
254.gap	1100	163	673	152	724	
255.vortex	1900	164	1155	161	1182	
256.bzip2	1500	189	795	183	819	
300.twolf	3000	300	1000	298	1008	

### Hardware

CPU: POWER4+  
CPU MHz: 1200  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip, 1 processor chip/DCM  
CPU(s) orderable: 1,2 (order by # cores)  
Parallel: No  
Primary Cache: 64KBI+32KBD (on chip) per core  
Secondary Cache: 1536KB unified (on chip) per chip  
L3 Cache: 8MB unified (off-chip) per DCM, 1 DCM in SUT  
Other Cache: None  
Memory: 4 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: srcalt=fmax_errno
-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 -D_ILS_MACROS
252.eon
BASEPEAK = 1
253.perlbnk
-qpdf1/pdf2
-O5 -lhmu -qalign=natural
254.gap
-qpdf1/pdf2
-O5 -lhmu -qalign=natural
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"

```

Approved alternate-source file 252.eon.fmax\_errno.src.alt.tar.gz was used with 252.eon for POSIX-compatibility.

DCM: Acronym for "Dual-Chip Module"  
SUT: Acronym for "System Under Test"

IBM eServer pSeries 615 Model 6C3 (rack-mount server) and pSeries 615 Model 6E3 (deskside server) are electronically equivalent. 1 processor was 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

```