



# CINT2000 Result

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## IBM Corporation

IBM IntelliStation POWER 275 Workstation (1450 MHz, 1 CPU)

SPECint2000 = 978

SPECint\_base2000 = 883

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	211	664	211	664	
175.vpr	1400	166	842	166	842	
176.gcc	1100	113	974	113	974	
181.mcf	1800	132	1368	127	1419	
186.crafty	1000	130	770	104	962	
197.parser	1800	450	400	217	828	
252.eon	1300	119	1091	119	1091	
253.perlbmk	1800	273	660	232	777	
254.gap	1100	125	880	125	880	
255.vortex	1900	137	1388	135	1407	
256.bzip2	1500	157	952	153	978	
300.twolf	3000	258	1163	247	1214	

### Hardware

CPU: POWER4+  
 CPU MHz: 1450  
 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: 8 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 -D_ILS_MACROS
186.crafty
-qpdf1/pdf2
fdpr -v -R3
-O3 -q64
197.parser
-O5 -blpdata -D_ILS_MACROS
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"

```

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"

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 lpgp\_regions=400 -o lpgp\_size=16777216 -o memory\_affinity=1  
chuser capabilities=CAP\_BYPASS\_RAC\_VMM,CAP\_PROPAGATE \$USER  
shutdown -r  
export MEMORY\_AFFINITY=MCM