



CINT2000 Result

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IBM Corporation
IBM eServer pSeries 670 (1100 MHz)

SPECint2000 = 708
SPECint_base2000 = 680

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	292	479	290	483	
175.vpr	1400	225	623	218	643	
176.gcc	1100	165	668	163	674	
181.mcf	1800	165	1091	163	1102	
186.crafty	1000	174	574	141	711	
197.parser	1800	465	387	461	391	
252.eon	1300	153	848	153	848	
253.perlbnk	1800	353	510	310	581	
254.gap	1100	157	699	157	699	
255.vortex	1900	185	1030	179	1063	
256.bzip2	1500	199	755	199	755	
300.twolf	3000	345	869	334	898	

Hardware

CPU: POWER4
 CPU MHz: 1100
 FPU: Integrated
 CPU(s) enabled: 1 core, 4 chips, 2 cores/chip, 4 chips/MCM
 CPU(s) orderable: 4,8,16 (order by # cores)
 Parallel: No
 Primary Cache: 64KBI+32KBD (on chip) per core
 Secondary Cache: 1440KB unified (on chip) per chip
 L3 Cache: 32MB * 4 unified (off Chip)
 Other Cache: None
 Memory: 64GB
 Disk Subsystem: 1x18GB 10000RPM
 Other Hardware: None

Software

Operating System: AIX 5L V5.1
 Compiler: C: IBM VisualAge C for AIX, Version 6.0 Beta
 C++: IBM VisualAge C++ for AIX, Version 6.0 Beta
 File System: AIX/JFS
 System State: Multi-user

Notes/Tuning Information

Portability Flags:

```
gcc: -ma -qlanglvl=ansi -DHOST_WORDS_BIG_ENDIAN
crafty: -DAIX
eon: -DNEED_EXPLICIT_SPECIALIZATION EXTRA_LDFLAGS=-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 -lhmu -qalign=natural
```

Peak Optimization Flags

```
164.gzip: CC= /usr/vac/bin/xlc, -O4 -qpdf1/pdf2
-L/usr/vac/lib
175.vpr: -O4 -qarch=ppc -qtune=pwr3 -blpdata ,
fdpr -v -R3
176.gcc: -qpdf1/pdf2 -O5 -lhmu -qalign=natural
-L/usr/vac/lib
181.mcf: -O3 -lhmu -qipa=partition=large -blpdata ,
```



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Notes/Tuning Information (Continued)

```
fdpr -v -R3
186.crafty: -O4 -q64 , fdpr -v -R3
197.parser: -O5 -blpdata , fdpr -v -R3
252.eon: basepeak=1
253.perlbnk: -qpdl1/pdf2 -O5 -lhm -qalign=natural
-L/usr/vac/lib
254.gap: basepeak=1
255.vortex: -qpdl1/pdf2 -O5 -lhm -qalign=natural
-L/usr/vac/lib
256.bzip2: basepeak=1
300.twolf: CC= /usr/vac/bin/xlc, -O5 -qpdl1/pdf2 -lhm
-qalign=natural -L/usr/vac/lib -blpdata
fdpr: Feedback directed program restructuring tool
/usr/spec2000 filesystem mounted with no JFS log file I/O
APAR IY28102 was applied to AIX 5L V5.1 to enable new hardware
ulimits set to unlimited.
Large page mode was set as follows: vmtune -g 16777216 -L 1024
C: IBM VAC++ for AIX 6.0 BETA invoked as cc except
where noted as xlc
C++: IBM VAC++ for AIX 6.0 BETA invoked as xlc
The final version of the compiler will be available by Dec-2002.
```