



CINT2000 Result

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IBM Corporation
IBM eServer pSeries 690 Turbo

SPECint2000 = 814
SPECint_base2000 = 790

SPEC license #: 11 Tested by: IBM, Austin, TX Test date: Nov-2001 Hardware Avail: Dec-2001 Software Avail: Dec-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	249	563	244	574	
175.vpr	1400	195	718	189	742	
176.gcc	1100	140	788	140	788	
181.mcf	1800	166	1087	159	1131	
186.crafty	1000	149	673	116	863	
197.parser	1800	405	445	397	453	
252.eon	1300	132	985	132	985	
253.perlbnk	1800	259	694	259	694	
254.gap	1100	147	746	147	746	
255.vortex	1900	152	1246	152	1246	
256.bzip2	1500	173	868	173	868	
300.twolf	3000	292	1027	291	1031	

Hardware

CPU: POWER4
 CPU MHz: 1300
 FPU: Integrated
 CPU(s) enabled: 1 core, 8 chips, 2 cores/chip, 4 chips/MCM
 CPU(s) orderable: 2,3,4 MCMs (order by # MCM)
 Parallel: None
 Primary Cache: 64KBI+32KBD (on chip) per core
 Secondary Cache: 1440KB unified (on chip) per chip
 L3 Cache: 128MB unified (off Chip)
 Other Cache: None
 Memory: 32GB
 Disk Subsystem: 2x18GB 10000RPM
 Other Hardware: None

Software

Operating System: AIX 5L V5.1
 Compiler: 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
 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
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 -lhm -qalign=natural
C++: -qpdf1/pdf2 -O5 -lhm -qalign=natural
```

Peak Optimization Flags

```
164.gzip: CC=/usr/vac/bin/xlc, -O4 -qpdf1/pdf2
175.vpr: -O4 -qarch=ppc -qtune=pwr3, fdpr -v -R3
176.gcc: basepeak=1
181.mcf: -O3 -lhm -qipa=partition=large, fdpr -v -R3
186.crafty: -O4 -q64, fdpr -v -R3
197.parser: -O5, fdpr -v -R3
252.eon: basepeak=1
253.perlbnk: basepeak=1
```



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Notes/Tuning Information (Continued)

254.gap: basepeak=1
255.vortex: basepeak=1
256.bzip2: basepeak=1
300.twolf: CC=/usr/vac/bin/xlc, -O5 -qpdf1/pdf2 -lhm -qalign=natural
fdpr: Feedback directed program restructuring tool
APAR IY 22854 was applied to AIX 5L V5.1 to enable new hardware support.
The final version of the beta compiler will be available by Dec-2002.