



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 620 Model 6F1 (600 MHz, 2MB L2)

SPECint2000 = 310

SPECint_base2000 = 295

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Mar-2001 | Hardware Avail: Apr-2001 | Software Avail: Apr-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	100 200 300 400 500 600					
164.gzip	1400	478	293	457	307	[Bar chart showing ratio 307]					
175.vpr	1400	424	331	421	332	[Bar chart showing ratio 332]					
176.gcc	1100	346	318	343	321	[Bar chart showing ratio 321]					
181.mcf	1800	704	256	730	247	[Bar chart showing ratio 247]					
186.crafty	1000	342	293	265	378	[Bar chart showing ratio 378]					
197.parser	1800	788	229	710	254	[Bar chart showing ratio 254]					
252.eon	1300	463	281	461	282	[Bar chart showing ratio 282]					
253.perlbmk	1800	800	225	690	261	[Bar chart showing ratio 261]					
254.gap	1100	463	237	454	242	[Bar chart showing ratio 242]					
255.vortex	1900	629	302	575	330	[Bar chart showing ratio 330]					
256.bzip2	1500	441	340	438	343	[Bar chart showing ratio 343]					
300.twolf	3000	571	525	593	506	[Bar chart showing ratio 506]					

Hardware

CPU: RS64 IV
CPU MHz: 600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1
Parallel: No
Primary Cache: 128KBI+128KBD (on chip)
Secondary Cache: 2MB unified (off chip)
L3 Cache: None
Other Cache: None
Memory: 2GB
Disk Subsystem: 2x9.1GB SCSI
Other Hardware: Ethernet

Software

Operating System: AIX 4.3.3
Compiler: C: IBM VAC 5.0.1 invoked as 'cc' except where noted as 'xlc'; C++: IBM C++ 5.0.0 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
perlbmk: -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 Flags:

```
C: -O5 -lhmua
C++: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=rs64b
```

Peak Flags:

```
164.gzip: CC=/usr/vac/bin/xlc -O5 -qarch=ppc, fdpr -v -R3
175.vpr: CC=/usr/vac/bin/xlc, -O3 -qpdf1/pdf2 -qarch=rs64b -Q=500 -L/usr/vac/lib -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
176.gcc: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmua -L/usr/vac/lib, fdpr -v -R3
181.mcf: -O5 -lhmua
186.crafty: -O4 -lhmua -q64, fdpr -v -R3
197.parser: -qpdf1/pdf2 CC=/usr/vac/bin/xlc -O4 -qarch=rs64b -L/usr/vac/lib -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
252.eon: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=rs64b -L/usr/vac/lib, fdpr -v -R3
253.perlbmk: -qpdf1/pdf2 -O3 -qarch=rs64b -lhmua -qdatalocal -qunroll=8 -L/usr/vac/lib, fdpr -v -R3
254.gap: -O4 -qarch=rs64b, fdpr -v -R3
```



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Notes/Tuning Information (Continued)

```
255.vortex: -qpdf1/pdf2 -O5 -Q=500 -lhm -L/usr/vac/lib
256.bzip2: -O5 -lhm, fdpr -v -R3
300.twolf: CC=/usr/vac/bin/xlc, -O5 -qpdf1/pdf2 -L/usr/vac/lib, fdpr -v -R3
Tests were run with APAR IY 17356 applied to AIX 4.3.3 to enable new hardware support.
fdpr: Feedback directed program restructuring tool
```