# SPEC CINT95rate Results

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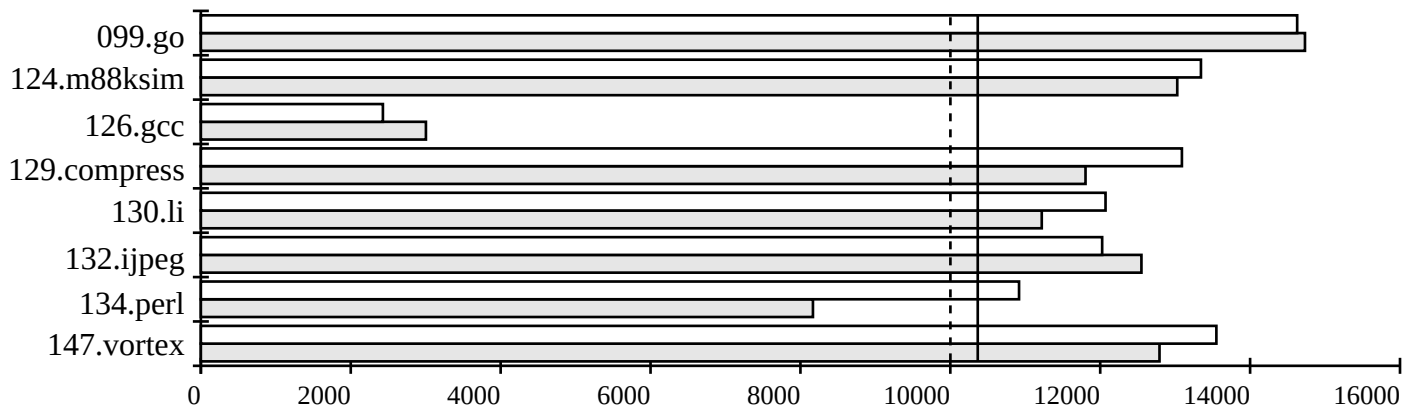
IBM Corporation
RS/6000 SP-375MHz (16 nodes, 4 CPUs each)

SPECint_rate95 = 10366

SPECint_rate_base95 = 10001

SPEC license # 11 | Tested By: IBM, Poughkeepsie, NY | Test Date: Jan-2000 | Hardware Avail: Feb-2000 | Software Avail: Feb-2000




Hardware/Software Configuration for:
RS/6000 SP-375MHz (16 nodes, 4 CPUs each)

**Hardware**

| | |
|---|---|
| Model Name: | RS/6000 SP-375MHz (16 nodes, 4 CPUs each) |
| CPU: | 375 MHz Power3 |
| FPU: | Integrated |
| Number of CPU(s): | 64 |
| Primary Cache: | 32KB I + 64KB D (on chip) |
| Secondary Cache: | 8MB unified (off chip) |
| Other Cache: | None |
| Memory: | 4GB (per node) |
| Disk Subsystem: | 2x9.1GB IBM Fast/Wide SCSI 7200 RPM (per node)<br>16x9.1GB SSA 7200 RPM (GPFS) |
| Other Hardware: | SP switch, Ethernet |

**Software**

| | |
|---|---|
| Operating System: | AIX 4.3.3 |
| Compiler: | IBM C/C++ 3.6.4.0<br>memdbg 4.4.0.1<br>FDPR |
| File System: | GPFS (distributed), AIX/JFS (local) |
| System State: | Multi-user |

| Benchmark # and Name | Base Copies | Base Run Time | Base SPEC Ratio | Copies | Run Time | SPEC Ratio |
|---|---|---|---|---|---|---|
| 099.go | 64 | 180 | 14732 | 64 | 181 | 14628 |
| 124.m88ksim | 64 | 84.0 | 13028 | 64 | 82 | 13344 |
| 126.gcc | 64 | 326 | 3003 | 64 | 403 | 2429 |
| 129.compress | 64 | 87.8 | 11804 | 64 | 79 | 13090 |
| 130.li | 64 | 97.5 | 11220 | 64 | 91 | 12071 |
| 132.ijpeg | 64 | 110 | 12550 | 64 | 115 | 12026 |
| 134.perl | 64 | 134 | 8167 | 64 | 100 | 10917 |
| 147.vortex | 64 | 122 | 12791 | 64 | 115 | 13550 |
| SPECint_rate_base95 (G. Mean) | | | 10001 | | | |
| | | | SPECint_rate95 (G. Mean) | | | 10366 |

## Notes/Tuning Information

```
Compatibility Flags: gcc -ma; perl -DI_TIME -DI_SYS_TIME
Base:   -O4 -Q=500 -qpdf1/pdf2 -lhmu
go:     -O -qarch=pwr3 -Q=500 -qansialias -qdatalocal -qassert=addr -qcompact -bnso -bI:/lib/syscalls.exp
m88:    -O3 -qarch=ppc -qipa=noobject -Q=500 -qansialias -qpdf1/pdf2
gcc:    -O -qarch=ppc -qdatalocal -qassert=addr -qinlglue -qpdf1/pdf2 -bnso -bI:/lib/syscalls.exp
comp:   -O -qarch=ppc -qipa=level=2:noobject -qdatalocal -Q=200 -qassert=allp -qunroll=5
li:     -O4 -qipa=noobject -qlibansi -qpdf1/pdf2; fdpr -R3
ijpeg:  -O4 -qipa=noobject -qunroll=4 -qpdf1/pdf2 -bnso -bI:/lib/syscalls.exp
perl:   -O4 -qipa=noobject -Q=200 -qinlglue -Dsetjmp=_setjmp -Dlongjmp=_longjmp -qansialias -qunroll=4
-qpdf1/pdf2 -bnso -bI:/lib/syscalls.exp /usr/ccs/lib/bmalloc.o
vort:   -O4 -qipa=level=2:noobject -Q=500 -qpdf1/pdf2 -lhm -lhu; fdpr -R2
submit command per node (x in v60n0x is node #):
rsh v60n0x "cd %dir%; PATH=/gpfs/wh2fs1/spec95:$PATH %command% && exit 0
NOTE: All benchmark related files are contained in a single GPFS filesystem.
The local filesystem contains the operating system and paging space.
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