# SPEC CFP95rate Results

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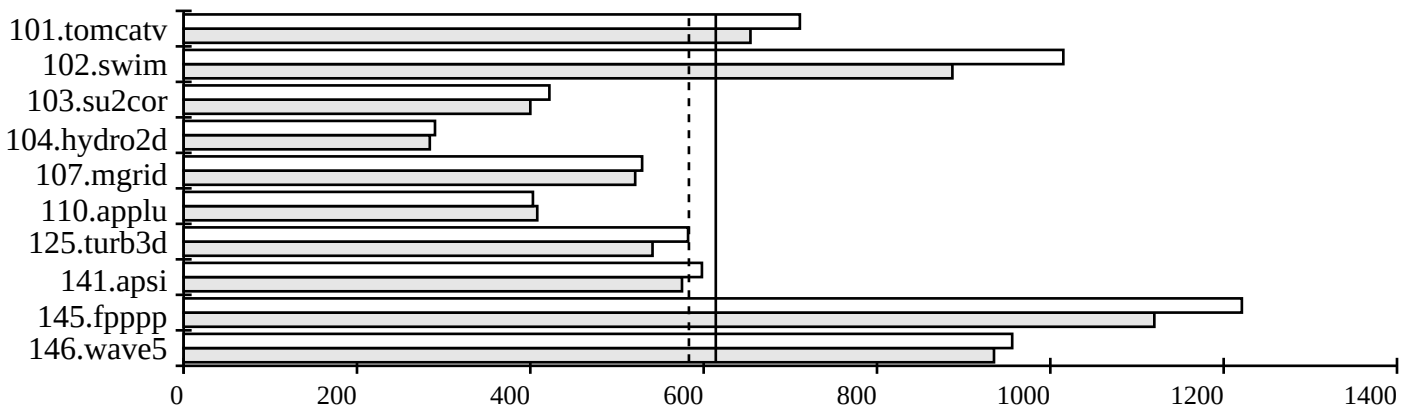
## SGI Origin200

SPECfp_rate95 = 614

SPECfp_rate_base95 = 583

| SPEC license # 04 | Tested By: SGI | Test Date: Jul-98 | Hardware Avail: Jul-98 | Software Avail: Jun-98 |
|---|---|---|---|---|




Hardware/Software Configuration for: Origin200

### Hardware

| | |
|---|---|
| Model Name: | Origin200: 4X 225MHz R10k |
| CPU: | 225MHz MIPS R10000 Processor Chip Revision: 3.3 |
| FPU: | MIPS R10010 Floating Point Chip Revision: 0.0 |
| Number of CPU(s): | 4 |
| Primary Cache: | 32KBI + 32KBD on chip |
| Secondary Cache: | 2MB (I+D) |
| Other Cache: | None |
| Memory: | 256MB |
| Disk Subsystem: | 2 SCSI 4.4GB (striped 128) |
| Other Hardware: | none |

### Software

| | |
|---|---|
| Operating System: | IRIX64 6.4 w/patch 3174 |
| Compiler: | MIPSpro Fortran 77 and 90 7.2.1 |
| File System: | XFS |
| System State: | Multi-User |

| Benchmark # and Name | Base Copies | Base Run Time | Base SPEC Ratio | Copies | Run Time | SPEC Ratio |
|---|---|---|---|---|---|---|
| 101.tomcatv | 4 | 204 | 654 | 4 | 187 | 711 |
| 102.swim | 4 | 349 | 887 | 4 | 305 | 1015 |
| 103.su2cor | 4 | 126 | 400 | 4 | 119 | 422 |
| 104.hydro2d | 4 | 304 | 284 | 4 | 298 | 290 |
| 107.mgrid | 4 | 173 | 521 | 4 | 170 | 529 |
| 110.applu | 4 | 194 | 408 | 4 | 196 | 403 |
| 125.turb3d | 4 | 273 | 541 | 4 | 254 | 582 |
| 141.apsi | 4 | 131 | 575 | 4 | 126 | 598 |
| 145.fpppp | 4 | 309 | 1120 | 4 | 283 | 1221 |
| 146.wave5 | 4 | 116 | 935 | 4 | 113 | 956 |
| SPECfp_rate_base95 (G. Mean) | | | 583 | | | |
| SPECfp_rate95 (G. Mean) | | | | | | 614 |

## Notes/Tuning Information

```
All benchmarks were built using f77 unless noted otherwise
Base Flags: -Ofast=ip27 -LNO:fusion=2
Peak Flags:
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$(EXENAME)
.   PASS2 = -fb_opt /tmp/FBDIR/$(EXENAME)
tomcatv: f90 -O3 -n32 -mips4 -LNO:prefetch_ahead=1:blocking=off
swim:    -O3 -n32 -mips4 -LNO:fusion=2:prefetch_ahead=1 -OPT:ieee_arith=3:ro=3:cs2=1m
su2cor:  -n32 -mips4 -O3 -TENV:X=3 -OPT:ro=3:ieee_arith=3:unroll_times_max=2:unroll_size=0 \
.        -OPT:unroll_analysis=off -LNO:prefetch=0:fusion=2 -TARG:platform=ip27
hydro2d: -Ofast=ip27 -n32 -mips4 -TENV:X=4 -OPT:ro=3:ieee_arith=3 -LNO:prefetch=2:fusion=2 -LNO:blocking=off
mgrid:   -Ofast=ip27 -n32 -mips4 -LNO:fusion=2:prefetch=2:prefetch_ahead=1
applu:   -Ofast=ip27 -LNO:fusion=2
turb3d:  -Ofast=ip27 -IPA:inline=off -OPT:ieee_arith=3 -LNO:pf2=0:interchange=off:cs2=1m \
.        -OPT:unroll_times_max=2, FEEDBACK
apsi:    -O3 -n32 -mips4 -IPA -OPT:div_split -LNO:fusion=2:prefetch=0:interchange=off
fpppp:   -Ofast=ip27 -lfastm -LNO:fusion=2, FEEDBACK
wave5:   -Ofast -LNO:fusion=2:fission=2:prefetch=1:prefetch_ahead=1, FEEDBACK
.
Large pages were enabled for base and peak using:
.  systune -i ;  percent_totalmem_1m_pages = 50
.  setenv PAGESIZE_DATA 1m
```

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