# SPEC CINT95rate Results

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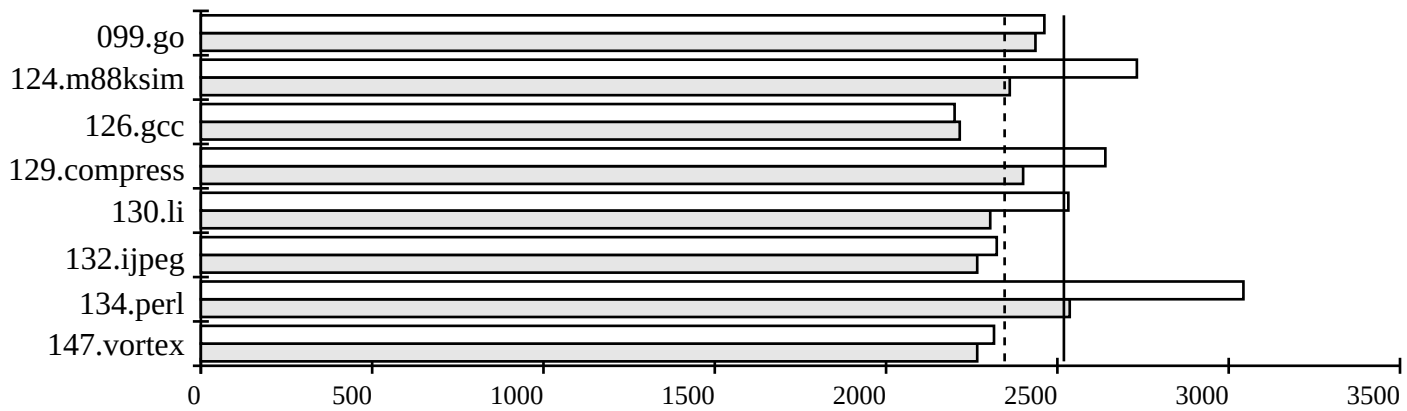
## Siemens Nixdorf Informationssysteme RM600 Model E60

| | |
|---|---|
| SPECint_rate95 = | 2519 |
| SPECint_rate_base95 = | 2346 |

| SPEC license # 22 | Tested By: SNI, Paderborn / Germany | Test Date: Dec-97 | Hardware Avail: Apr-98 | Software Avail: Jan-98 |
|---|---|---|---|---|




Hardware/Software Configuration for:
RM600 Model E60

**Hardware**

| | |
|---|---|
| Model Name: | RM600-E60 |
| CPU: | 250 MHz R10000 |
| FPU: | Integrated |
| Number of CPU(s): | 20 |
| Primary Cache: | 32KBI+32KBD on chip |
| Secondary Cache: | 8MB(I+D) off chip per CPU |
| Other Cache: | None |
| Memory: | 4096MB |
| Disk Subsystem: | 24 x 9GB (striped) |
| Other Hardware: | None |

**Software**

| | |
|---|---|
| Operating System: | Reliant UNIX 5.44 A 00 |
| Compiler: | pyrC 6.0A00 |
| File System: | VxFS |
| System State: | Multi user, no extra processes |

| Benchmark # and Name | Base Copies | Base Run Time | Base SPEC Ratio | Copies | Run Time | SPEC Ratio |
|---|---|---|---|---|---|---|
| 099.go | 20 | 340 | 2436 | 20 | 336 | 2462 |
| 124.m88ksim | 20 | 145 | 2361 | 20 | 125 | 2732 |
| 126.gcc | 20 | 138 | 2215 | 20 | 139 | 2200 |
| 129.compress | 20 | 135 | 2400 | 20 | 123 | 2640 |
| 130.li | 20 | 148 | 2304 | 20 | 135 | 2532 |
| 132.ijpeg | 20 | 191 | 2266 | 20 | 186 | 2323 |
| 134.perl | 20 | 135 | 2536 | 20 | 112 | 3043 |
| 147.vortex | 20 | 215 | 2266 | 20 | 210 | 2315 |
| SPECint_rate_base95 (G. Mean) | | | 2346 | | | |
| | | | SPECint_rate95 (G. Mean) | | | 2519 |

## Notes/Tuning Information

```
Baseline:
PASS1 = -qfeedback; PASS2 = [empty]; OPTIMIZE = -WM,-Omips4 -WM,-G44 -dn
Peak:
099.go: -WM,-G1799 -Wo,-loopunroll,8 -Wo,-unrolllimit,2000 -Wg,-inline_limit,200
124.m88ksim: -WM,-G4000 -KOlimit:3500 -Wg,-inline_limit,1000  -Wo,-splitedges,0 -WM,-pre_opt
-Wo,-loopunroll,32,-unrolllimit,350 -Wb,-br_likely_cntl,60,200 -WG,-space_time:0.5
126.gcc: -WM,-G44 -WG,-boc,0.38,-only_clone_recursion,-recursion_depth,1,-clone_expansion,1.1 -Wb,-prefetch,512,0 -Wo,-recursive_calls
129.compress: -WM,-G44 -Wb,-no_self_copy
130.li: -WM,-G4000 -Wo,-unrolllimit,1000 -WG,-boc,0.35,-inline_limit,1500,-recursion_depth,3,-recursion_limit,400
-WG,-clone_expansion,1.25,-only_clone_recursion -Wg,-dont_prune_zero_edges
132.ijpeg: -WM,-G44 -Wo,-no_const_in_reg -Wo,-unrolllimit:800 -WG,-space_time:3.4 -Wb,-prefetch,100,0
134.perl: -WM,-G32 -KOlimit:5000 -Wo,-unrolllimit,500 -Wo,-recursive_calls -WG,-boc,0.25 -Wg,-recursion_limit,4700
-Wn,-recursion_limit,1000000,-recursion_depth,1,-only_clone_recursion -Wc,-xjp_mh_opt,1,30 -WM,-no_positioning
147.vortex: -WM,-G46 -Wo,-unrolllimit,1000 -Wg,-boc,0.91,-inline_limit,300

1-pass feedback for 099, 124, 129, 132, 147:
PASS1 = -qfeedback -WM,-Omips4 -dn
PASS2 = -WM,-Omips4 -dn, plus: see above

2-pass feedback for 126, 130, 134:
PASS1 = -qfeedback -WM,-Omips4 -dn
PASS2 = -qfeedback2 -WM,-Omips4 -dn, plus: see above
fdo_run1 = %command%
fdo_run2 = %command%
fdo_post2 = ksh -c "cd %benchtop%/src; 'grep '/usr/opt/pyrC/bin/cc' %benchtop%/src/make2.out | tail -1 | sed -e 's/-qfeedback2/-WM,-use_fb2/''"
i.e. use all flags of PASS2 except that "-qfeedback2" is replaced by "-WM,-use_fb2"

For Portability: 134.perl: -DI_TIME -DI_SYS_TIME
```

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