SPEC CFP95rate Results

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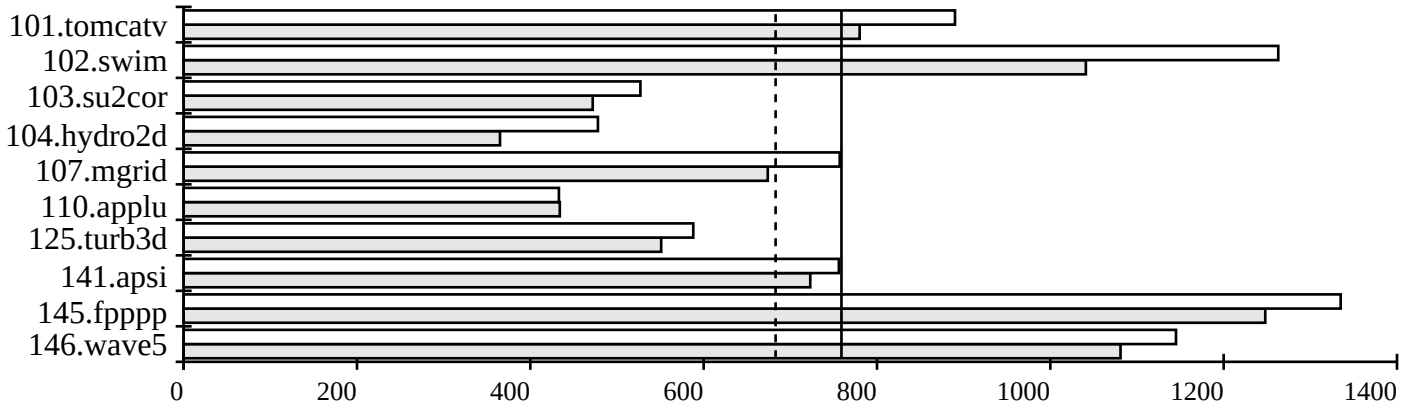
SGI Origin2000

SPECfp_rate95 = 759

SPECfp_rate_base95 = 683

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



Hardware/Software Configuration for: Origin2000

Hardware

Model Name:	Origin2000 4X250MHz R10000
CPU:	250 MHz MIPS R10000 Processor Chip Revision: 3.4
FPU:	MIPS R10010 Floating Point Chip Revision: 0.0
Number of CPU(s):	4
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	4MB (I+D)
Other Cache:	None
Memory:	1024MB
Disk Subsystem:	4 SCSI 4.4GB (striped)
Other Hardware:	none

Software

Operating System:	IRIX64 6.5.1m
Compiler:	MIPSpro Fortran 77 and 90 7.2.1
	IRIX Development Foundation 1.1
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	171	780	4	150	890
102.swim	4	297	1041	4	245	1263
103.su2cor	4	107	472	4	96	527
104.hydro2d	4	236	365	4	181	478
107.mgrid	4	134	674	4	119	757
110.applu	4	182	434	4	183	433
125.turb3d	4	268	551	4	251	588
141.apsi	4	105	723	4	100	756
145.fpppp	4	277	1248	4	259	1335
146.wave5	4	99.9	1081	4	94	1145
SPECfp_rate_base95 (G. Mean)			683			
SPECfp_rate95 (G. Mean)						759

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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