SPEC CFP95 Results

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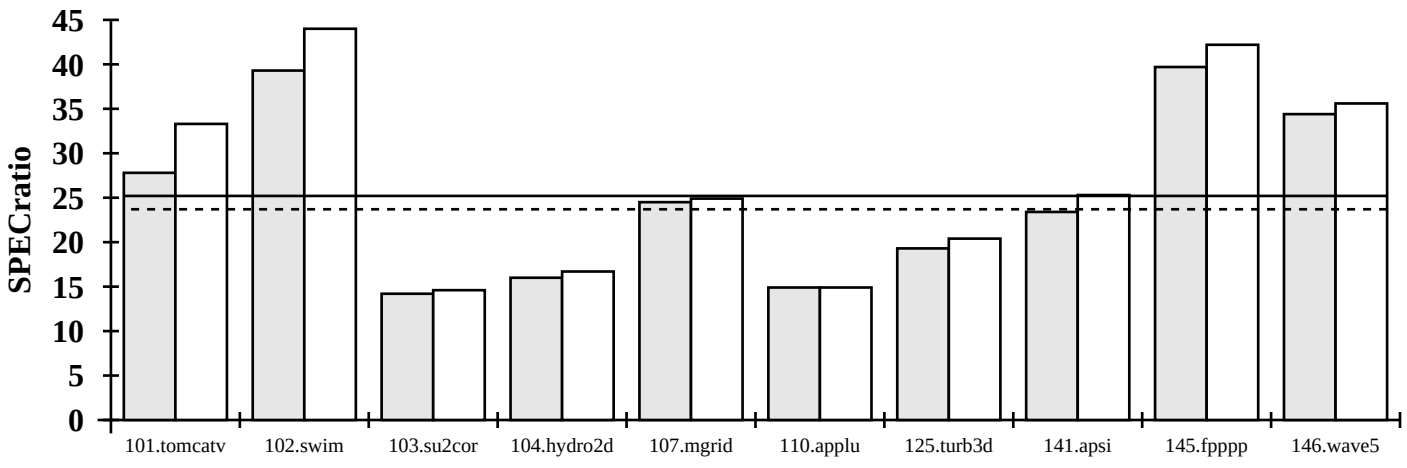
SGI Origin200 1X 270MHz R12k

SPECfp95 = 25.2

SPECfp_base95 = 23.7

SPEC license # 04 | Tested By: SGI | Test Date: Mar-99 | Hardware Avail: Mar-99 | Software Avail: Mar-99



Hardware/Software Configuration for:
Origin200 1X 270MHz R12k

Hardware

Model Name:	Origin200: 1X 270MHz R12k
CPU:	270 MHz MIPS R12000 Processor Chip Revision: 2.2
FPU:	MIPS R12010 Floating Point Chip Revision: 0.0
Number of CPU(s):	1
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	4MB (I+D)
Other Cache:	None
Memory:	512MB
Disk Subsystem:	2 SCSI 4.4GB (striped)
Other Hardware:	none

Software

Operating System:	IRIX64 6.5
Compiler:	MIPSpro Fortran 77 and 90 7.2.1
File System:	XFS
System State:	Multi-User

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	133	27.8	111	33.3
102.swim	8600	219	39.3	195	44.0
103.su2cor	1400	98.9	14.2	96	14.6
104.hydro2d	2400	150	16.0	144	16.7
107.mgrid	2500	102	24.5	100	24.9
110.applu	2200	148	14.9	148	14.9
125.turb3d	4100	212	19.3	201	20.4
141.apsi	2100	89.8	23.4	83	25.3
145.fpppp	9600	242	39.7	228	42.2
146.wave5	3000	87.3	34.4	84	35.6
SPECfp_base95 (G. Mean)			23.7		
		SPECfp95 (G. Mean)			25.2

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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-- Prepared By: --