SPEC CFP95 Results

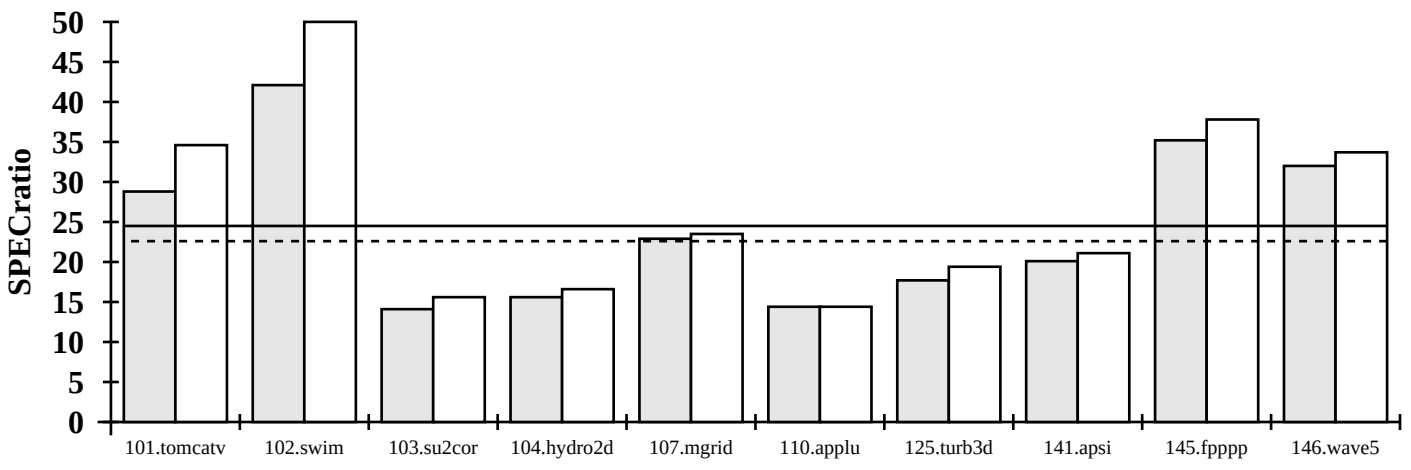
©Copyright 1995, Standard Performance Evaluation Corporation

SGI Origin2000

SPECfp95 = 24.5

SPECfp_base95 = 22.6

SPEC license # 04 | Tested By: SGI | Test Date: Feb-98 | Hardware Avail: Mar-98 | Software Avail: Sep-97



Hardware/Software Configuration for: Origin2000

Hardware

Model Name:	Origin2000: 1X 250MHz R10k
CPU:	250 MHz MIPS R10000 Processor Chip Revision: 3.3
FPU:	MIPS R10010 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:	256MB
Disk Subsystem:	4 SCSI 4.4GB (striped)
Other Hardware:	none

Software

Operating System:	IRIX64 6.4 w/patch2694 and patch2509
Compiler:	MIPSpro Fortran 77 and 90 7.2
	IRIX Development Foundation 1.0 w/patch2687
File System:	XFS
System State:	Single-User

Benchmark # and Name	Reference Time	Base Run Time	Base SPEC Ratio	Run Time	SPEC Ratio
101.tomcatv	3700	129	28.8	107	34.6
102.swim	8600	204	42.1	172	50.0
103.su2cor	1400	99.1	14.1	90	15.6
104.hydro2d	2400	154	15.6	145	16.6
107.mgrid	2500	109	22.9	106	23.5
110.applu	2200	153	14.4	153	14.4
125.turb3d	4100	232	17.7	211	19.4
141.apsi	2100	105	20.1	99	21.1
145.fpppp	9600	273	35.2	254	37.8
146.wave5	3000	93.7	32.0	89	33.7
SPECfp_base95 (G. Mean)			22.6		
				SPECfp95 (G. Mean)	24.5

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/$     where $ is the program name
.   PASS2 = -fb_opt /tmp/FBDIR/$        where $ is the program name
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 = 30
.  setenv PAGESIZE_DATA 1m
```

For More Information Contact:
SPEC
10754 Ambassador Drive, Suite 201
Manassas, VA 20109
(703) 331-0180
info@specbench.org
http://www.specbench.org/

-- Prepared By: --