SPEC CFP95rate Results

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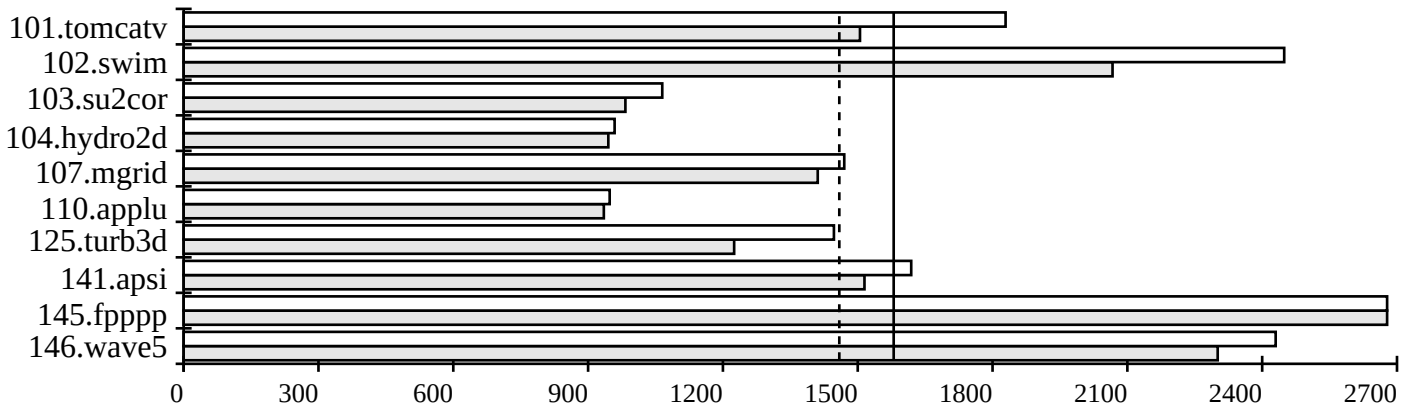
SGI Origin2100: 8X 250MHz R10k

SPECfp_rate95 = 1580

SPECfp_rate_base95 = 1459

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



SPECrate

Hardware/Software Configuration for:
Origin2100: 8X 250MHz R10k

Hardware

Model Name:	Origin2100: 8X 250MHz R10k
CPU:	250 MHz MIPS R10000 Processor Chip Revision: 3.4
FPU:	Integrated
Number of CPU(s):	8
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	4MB (I+D)
Other Cache:	None
Memory:	2048MB
Disk Subsystem:	1 SCSI 4.3GB
Other Hardware:	none

Software

Operating System:	IRIX64 6.5.5
Compiler:	MIPSpro Fortran 77 and 90 7.3
	IRIX Development Foundation 1.2
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	8	177	1505	8	146	1829
102.swim	8	300	2067	8	253	2449
103.su2cor	8	103	983	8	95	1065
104.hydro2d	8	183	945	8	180	959
107.mgrid	8	128	1411	8	122	1470
110.applu	8	169	935	8	167	948
125.turb3d	8	241	1225	8	204	1447
141.apsi	8	99.8	1515	8	93	1619
145.fpppp	8	258	2678	8	258	2678
146.wave5	8	93.9	2301	8	89	2430
SPECfp_rate_base95 (G. Mean)			1459			
SPECfp_rate95 (G. Mean)						1580

Notes/Tuning Information

```
Base Flags: f90 -Ofast=ip27 -LNO:fusion=2 FEEDBACK
FEEDBACK:
.   PASS1 = -fb_create /tmp/FBDIR/$(EXENAME)
.   PASS2 = -fb_opt /tmp/FBDIR/$(EXENAME)
Peak Flags:
tomcatv: f90 -Ofast=ip27 -LNO:prefetch_ahead=1:blocking=off:ou_max=2:local_pad_size=1
swim:    f77 -Ofast=ip27 -LNO:fusion=2:prefetch_ahead=1 -IPA:inline=off:pad=off -OPT:ieee_arith=3:ro=3 -bigp_off
su2cor:  f90 -O3 -n32 -mips4 -TARG:platform=ip27 -TENV:X=3 -LNO:prefetch=0:fusion=2:local_pad_size=0 \
.           -OPT:ro=3:ieee_ar=3:unroll_times_max=2:unroll_size=0:unroll_analysis=off
hydro2d: f90 -Ofast=ip27 -LNO:fusion=2 -TENV:X=4
mgrid:   f90 -Ofast=ip27 -LNO:prefetch_ahead=1
applu    f77 -Ofast=ip27 -LNO:fusion=2:ou_max=5:ou_prod_max=10
turb3d   f77 -Ofast=ip27 -OPT:ieee_arith=3 -IPA:multi_clone=12:node_bloat=200 -LNO:prefetch=0
apsi     f77 -Ofast=ip27 -OPT:div_split -LNO:fusion=2:prefetch=0:blocking=off -bigp_off
fpppp:   f90 -Ofast=ip27 -LNO:fusion=2 FEEDBACK
wave5:   f77 -Ofast=ip27 -LNO:fusion=2 -IPA:common_pad_size=13:maxdepth=2 -OPT:unroll_size=400 -bigp_off
.
Large pages were enabled for base and peak using:
.  systune -i ;  percent_totalmem_1m_pages = 50 ; nlpages_1m = 800
.  setenv PAGESIZE_DATA 1024
```

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-- Prepared By: --