SPEC CFP95rate Results

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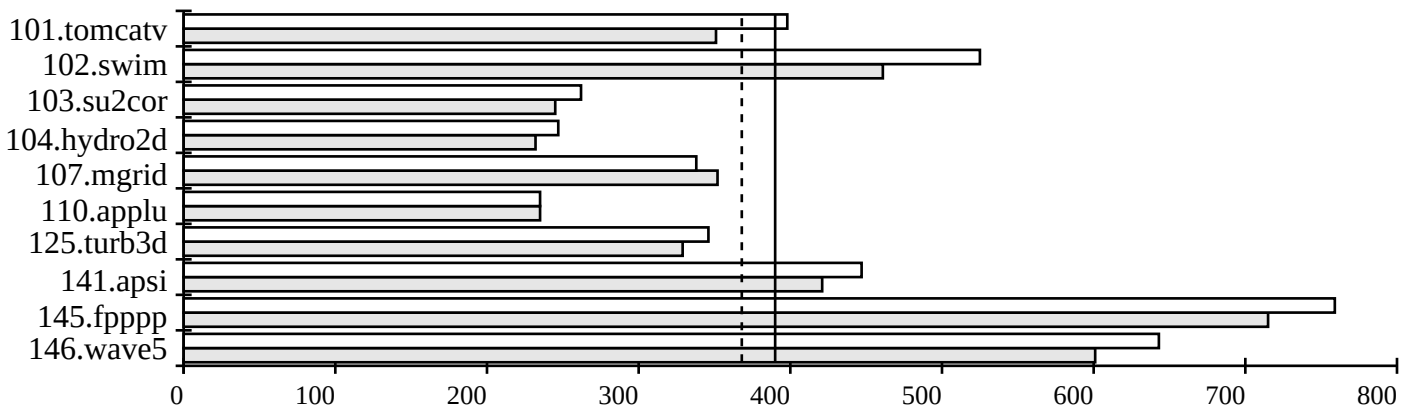
SGI Origin200: 2X 270MHz R12k

SPECfp_rate95	=	390
SPECfp_rate_base95	=	368

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



Hardware/Software Configuration for:
Origin200: 2X 270MHz R12k

Hardware

Model Name:	Origin200: 2X 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):	2
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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	2	190	351	2	167	398
102.swim	2	336	461	2	295	525
103.su2cor	2	103	245	2	96	262
104.hydro2d	2	186	232	2	175	247
107.mgrid	2	128	352	2	133	338
110.applu	2	169	235	2	169	235
125.turb3d	2	224	329	2	213	346
141.apsi	2	89.7	421	2	85	447
145.fpppp	2	242	715	2	228	759
146.wave5	2	89.8	601	2	84	643
SPECfp_rate_base95 (G. Mean)			368			
SPECfp_rate95 (G. Mean)						390

Notes/Tuning Information

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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: --