SPEC CFP95rate Results

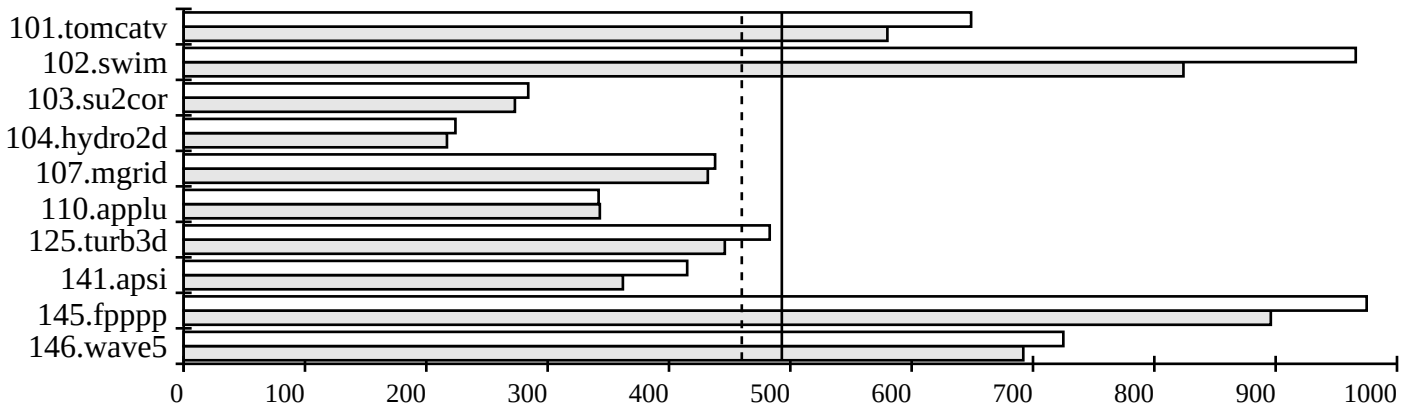
©Copyright 1995, Standard Performance Evaluation Corporation

SGI Origin200

SPECfp_rate95 = 493

SPECfp_rate_base95 = 460

SPEC license # 04	Tested By: SGI	Test Date: Dec-97	Hardware Avail: Nov-96	Software Avail: Sep-97



Hardware/Software Configuration for: Origin200

Hardware

Model Name:	Origin200 Server 4X R10000 180MHz
CPU:	180 MHz MIPS R10000 Processor Chip Revision: 2.6
FPU:	MIPS R10010 Floating Point Chip Revision: 0.0
Number of CPU(s):	4
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	1MB (I+D)
Other Cache:	None
Memory:	1024MB
Disk Subsystem:	6 SCSI 4.4GB (striped)
Other Hardware:	none

Software

Operating System:	IRIX64 6.4 w/patch2389
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	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	4	230	580	4	205	649
102.swim	4	376	824	4	321	966
103.su2cor	4	185	273	4	177	284
104.hydro2d	4	398	217	4	386	224
107.mgrid	4	208	432	4	206	438
110.applu	4	231	343	4	232	342
125.turb3d	4	331	446	4	306	483
141.apsi	4	209	362	4	182	415
145.fpppp	4	386	896	4	355	975
146.wave5	4	156	692	4	149	725
SPECfp_rate_base95 (G. Mean)			460			
SPECfp_rate95 (G. Mean)						493

Notes/Tuning Information

```
Base Flags: -Ofast=ip27 -LNO:fusion=2
Peak Flags: (f77 except where noted)
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: -O3 -n32 -mips4 -TENV:X=4 -OPT:ro=3:ieee_arith=3 -LNO:prefetch=2:fusion=2 -LNO:blocking=off -IPA
mgrid:   -O3 -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=4m \
.        -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: --