SPEC CFP95rate Results

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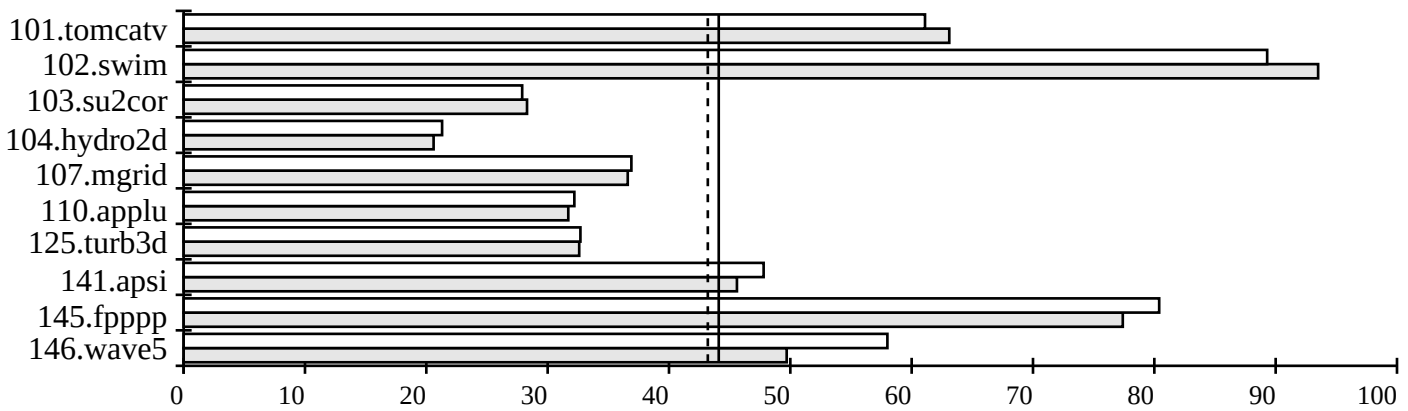
IBM Corporation
RISC System/6000 G30

SPECfp_rate95 = 44.1

SPECfp_rate_base95 = 43.2

SPEC license # 11 | Tested By: IBM, Austin TX | Test Date: Jan-96 | Hardware Avail: Oct-94 | Software Avail: Dec-95



Hardware/Software Configuration for:
RISC System/6000 G30

Hardware

Model Name:	RISC System/6000 G30
CPU:	75MHz PowerPC 601
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	32KB(I+D) on chip
Secondary Cache:	512KB(I+D) off chip per cpu
Other Cache:	None
Memory:	256MB
Disk Subsystem:	1 x 1.1 GB
Other Hardware:	None

Software

Operating System:	AIX 4.1.4
Compiler:	IBM XL Fortran/6000 3.2.2.2
File System:	AIX/JFS
System State:	Multi-User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	2	1055	63.1	2	1091	61.1
102.swim	2	1655	93.5	2	1734	89.3
103.su2cor	2	889	28.3	2	902	27.9
104.hydro2d	2	2093	20.6	2	2030	21.3
107.mgrid	2	1229	36.6	2	1219	36.9
110.applu	2	1249	31.7	2	1229	32.2
125.turb3d	2	2267	32.6	2	2257	32.7
141.apsi	2	829	45.6	2	791	47.8
145.fpppp	2	2233	77.4	2	2149	80.4
146.wave5	2	1087	49.7	2	931	58.0
SPECfp_rate_base95 (G. Mean)			43.2			
SPECfp_rate95 (G. Mean)						44.1

Notes/Tuning Information

```
Baseline: -O3 -qarch=ppc -qhsflt -lmass
Peak: all used -qarch=ppc -qhsflt -pdf1/pdf2 -bnso -bI:/lib/syscalls.ex
101: -O3
102: -O  -qnosave -Pk -Wp,-ag=a,-ur2=133
103: -O3
104: -O3 -qnosave -qipa -Pv -Wp,-ea478
107: -O3 -Pv -Wp,-ea478
110: -O3 -qhot -Q=300
125: -O3 -qipa -Pv -Wp,-ew,-me
141: -O3 -qnosave -Pk -Wp,-ur2=133,-ag=a
145: -O3 -qnofold -Pv -Wp,-ew,-me
146: -O3 -Pk -Wp,-ur2=200,-ag=a
Extra Software: KAP for IBM Fortran and VAST/2 for IBM Fortran
```

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