SPEC CFP95rate Results

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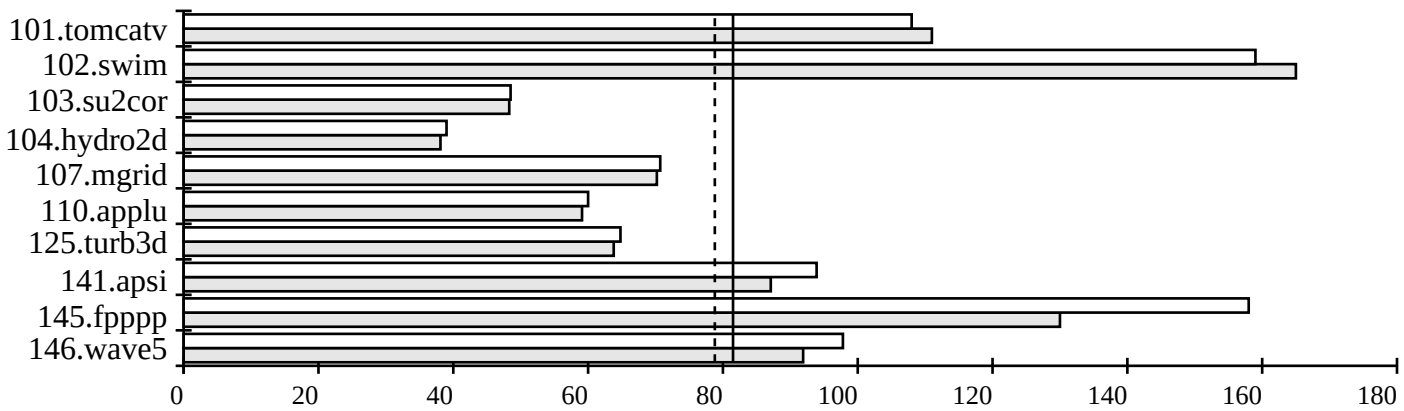
IBM Corporation
RISC System/6000 G30

SPECfp_rate95 = 81.5

SPECfp_rate_base95 = 78.8

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):	4
Primary Cache:	32KB(I+D) on chip per cpu
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	4	1205	111	4	1239	108
102.swim	4	1876	165	4	1942	159
103.su2cor	4	1044	48.3	4	1039	48.5
104.hydro2d	4	2266	38.1	4	2215	39.0
107.mgrid	4	1283	70.2	4	1273	70.7
110.applu	4	1340	59.1	4	1321	60.0
125.turb3d	4	2313	63.8	4	2278	64.8
141.apsi	4	868	87.1	4	805	93.9
145.fpppp	4	2664	130	4	2183	158
146.wave5	4	1175	91.9	4	1104	97.8
SPECfp_rate_base95 (G. Mean)			78.8			
SPECfp_rate95 (G. Mean)						81.5

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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