SPEC CFP95rate Results

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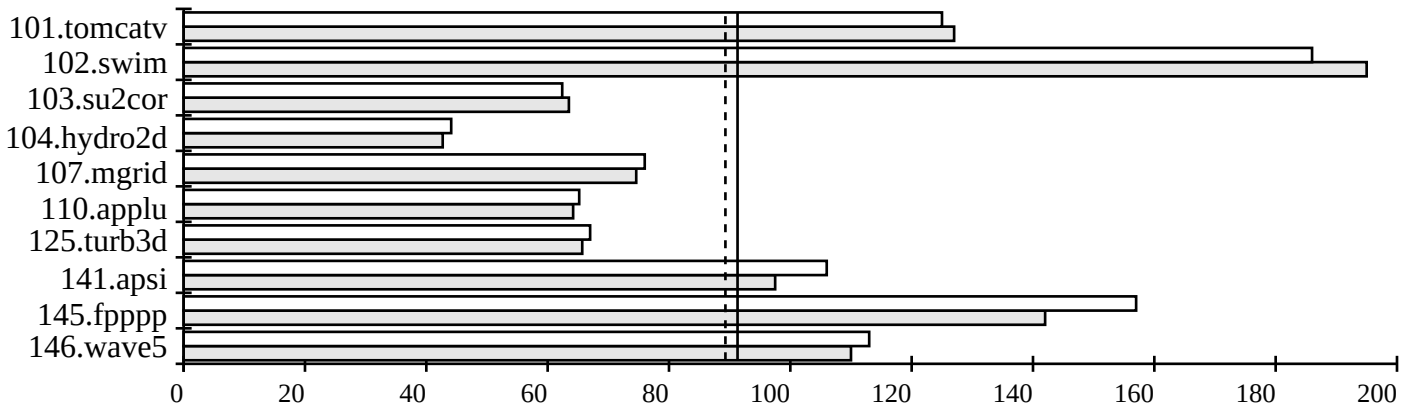
IBM Corporation
RISC System/6000 J30

SPECfp_rate95 = 91.3

SPECfp_rate_base95 = 89.3

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



Hardware/Software Configuration for:
RISC System/6000 J30

Hardware

Model Name:	RISC System/6000 J30
CPU:	75MHz PowerPC 601
FPU:	Integrated
Number of CPU(s):	4
Primary Cache:	32KB(I+D) on chip
Secondary Cache:	1MB(I+D) off chip per cpu
Other Cache:	None
Memory:	2GB
Disk Subsystem:	2 x 2.2 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	1047	127	4	1063	125
102.swim	4	1585	195	4	1663	186
103.su2cor	4	793	63.5	4	808	62.4
104.hydro2d	4	2023	42.7	4	1959	44.1
107.mgrid	4	1207	74.6	4	1184	76.0
110.applu	4	1235	64.2	4	1214	65.2
125.turb3d	4	2247	65.7	4	2204	67.0
141.apsi	4	775	97.5	4	712	106
145.fpppp	4	2438	142	4	2202	157
146.wave5	4	981	110	4	955	113
SPECfp_rate_base95 (G. Mean)			89.3			
SPECfp_rate95 (G. Mean)						91.3

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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