SPEC CFP95rate Results

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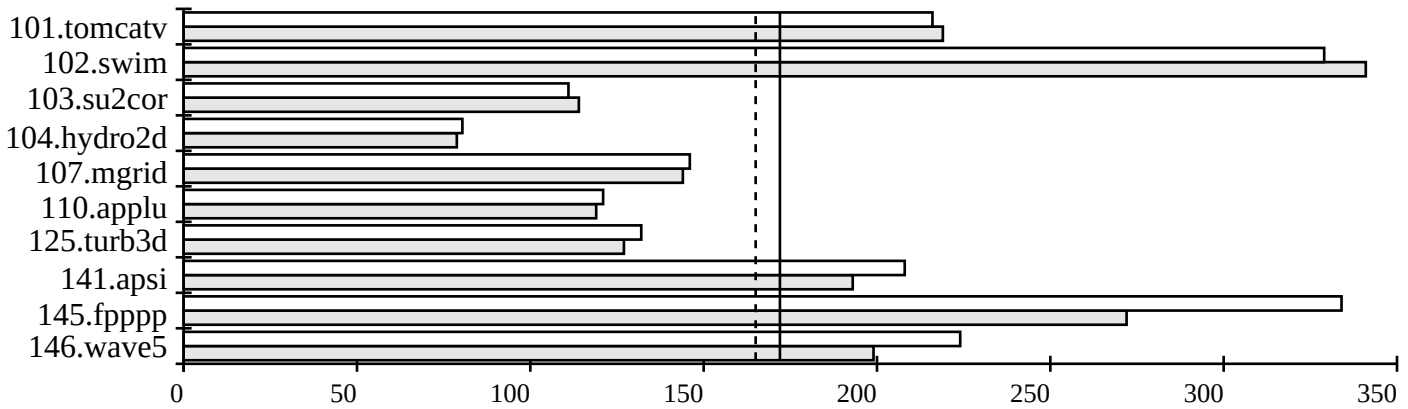
IBM Corporation
RISC System/6000 J30

SPECfp_rate95 = 172

SPECfp_rate_base95 = 165

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):	8
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	8	1218	219	8	1234	216
102.swim	8	1818	341	8	1882	329
103.su2cor	8	885	114	8	908	111
104.hydro2d	8	2194	78.8	8	2149	80.4
107.mgrid	8	1247	144	8	1233	146
110.applu	8	1330	119	8	1313	121
125.turb3d	8	2332	127	8	2229	132
141.apsi	8	783	193	8	725	208
145.fpppp	8	2540	272	8	2072	334
146.wave5	8	1084	199	8	966	224
SPECfp_rate_base95 (G. Mean)			165			
SPECfp_rate95 (G. Mean)						172

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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