SPEC CFP95rate Results

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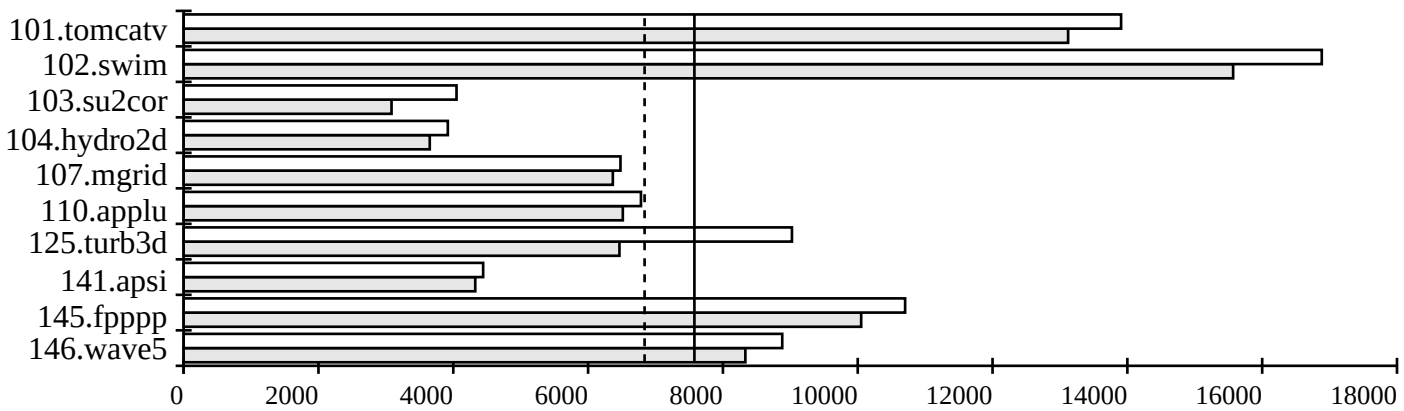
IBM Corporation
RISC System/6000 SP 32 160 Mhz nodes

SPECfp_rate95 = 7577

SPECfp_rate_base95 = 6838

SPEC license # 11 | Tested By: IBM, Poughkeepsie, NY | Test Date: Feb-98 | Hardware Avail: Oct-97 | Software Avail: Dec-97



Hardware/Software Configuration for:
RISC System/6000 SP 32 160 Mhz nodes

Hardware

Model Name:	RS/6000 SP 32 160Mhz nodes
CPU:	160 MHz P2SC Thin node
FPU:	Integrated
Number of CPU(s):	32
Primary Cache:	32KBI+128KBD on chip
Secondary Cache:	None
Other Cache:	None
Memory:	1GB (4 cards)
Disk Subsystem:	1x4.5GB (per node) 8x9.1GB 64k stripe (master node)
Other Hardware:	SP Switch

Software

Operating System:	AIX 4.2.1
Compiler:	XL Fortran version 5.1.0.1 KAP version 3.2 VAST-2 version 4.01X8
File System:	AIX/JFS, NFS v3
System State:	Multi-user

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	32	81.2	13121	32	77	13907
102.swim	32	159	15569	32	147	16884
103.su2cor	32	131	3084	32	100	4048
104.hydro2d	32	189	3651	32	176	3919
107.mgrid	32	113	6367	32	111	6480
110.applu	32	97.2	6515	32	93	6784
125.turb3d	32	183	6465	32	131	9024
141.apsi	32	140	4326	32	136	4443
145.fpppp	32	275	10051	32	258	10703
146.wave5	32	104	8333	32	97	8880
SPECfp_rate_base95 (G. Mean)			6838			
SPECfp_rate95 (G. Mean)						7577

Notes/Tuning Information

```
Base: -O4 -qipa=level=2 -qfloat=hsflt -lmass
Peak
101: -qipa=level=2:partition=large -qnosave -qmaxmem=-1 -qhot -O3 -qarch=pwr2
-qfloat=hsflt -Pv -Wp,-me,-o -bnso -bI:/lib/syscalls.exp; fdpr -R3
102: -qipa=level=2 -O3 -qstrict -qarch=pwr2 -qfloat=hsflt -qnosave -Pv -Wp,-me,-ew,-o -qpdf1/pdf2 -lmass
103: -qipa=level=2 -qhot=arraypad=248 -O3 -qarch=pwr2 -qfloat=hsflt -qpdf1/pdf2 -lmass
-bnso -bI:/lib/syscalls.exp; fdpr -R3
104: -qtbtable=none -O3 -qarch=pwr2 -qfloat=hsflt -qnosave -qpdf1/pdf2
-Pk -Wp,-fuse,-r=3,-inl,-ur=2,-ur2=150,-f -bnso -bI:/lib/syscalls.exp; fdpr -R3
107: -qipa=level=2:partition=large -qtbtable=none -qalias=noaryovrlp
-qnosave -qmaxmem=-1 -O3 -qarch=pwr2 -lmass -bnso -bI:/lib/syscalls.exp; fdpr -R2
110: -qipa=level=2:partition=large -qtbtable=none -Q -O3 -qarch=pwr2
-qfloat=hsflt -qnosave -Pk -Wp,-fuse,-ur=4,-ur2=150,-r=2,-lm=5,-f -qpdf1/pdf2 -lmass; fdpr -R2
125: -qipa=level=2 -qmaxmem=-1 -O3 -qarch=pwr2 -Pv -Wp,-me,-o -lmass
141: -O4 -qipa=partition=large -qtbtable=none -lmass -bnso -bI:/lib/syscalls.exp
145: -qhot -O3 -qarch=pwr2 -Q -qfloat=hsflt -Pv -Wp,-ea27,-o -1 -qlog4 -qnosave
-qmaxmem=-1 -qpdf1/pdf2 -lmass -bnso -bI:/lib/syscalls.exp; fdpr -R3
146: -O3 -qarch=pwr2 -qfloat=hsflt -Q -Pk -Wp,-ag=a,-f -lmass -bnso -bI:/lib/syscalls.exp; fdpr -R3
Executables built on AIX 4.1.5
```

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: --