SPEC CFP95rate Results

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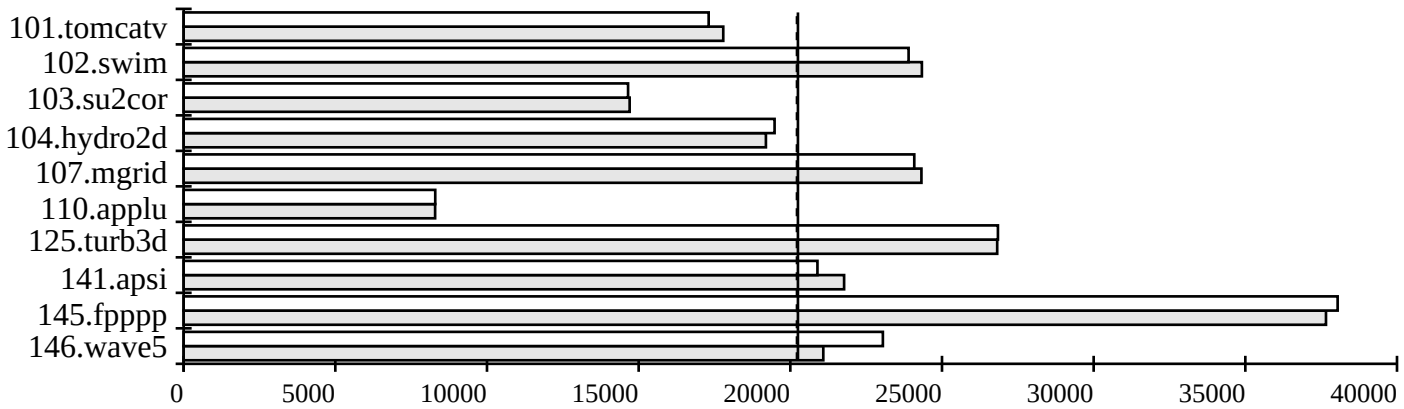
IBM Corporation
RS/6000 SP-375MHz (16 nodes, 4 CPUs each)

SPECfp_rate95 = 20251

SPECfp_rate_base95 = 20220

SPEC license # 11 | Tested By: IBM, Poughkeepsie, NY | Test Date: Jan-2000 | Hardware Avail: Feb-2000 | Software Avail: Feb-2000



SPECrate

Hardware/Software Configuration for:
RS/6000 SP-375MHz (16 nodes, 4 CPUs each)

Hardware

Model Name:	RS/6000 SP-375MHz (16 nodes, 4 CPUs each)
CPU:	375 MHz Power3
FPU:	Integrated
Number of CPU(s):	64
Primary Cache:	32KB I + 64KB D (on chip)
Secondary Cache:	8MB unified (off chip)
Other Cache:	None
Memory:	4GB (per node)
Disk Subsystem:	2x9.1GB IBM Fast/Wide SCSI 7200 RPM (per node)
	16x9.1GB SSA 7200 RPM (GPFS)
Other Hardware:	SP switch, Ethernet

Software

Operating System:	AIX 4.3.3
Compiler:	XL Fortran version 6.1.0.0
	KAP version 3.2
	VAST-2 version 4.01X8
File System:	GPFS (distributed), AIX/JFS (local)
System State:	Multi-user

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	64	120	17789	64	123	17308
102.swim	64	204	24337	64	207	23899
103.su2cor	64	54.8	14703	64	55	14651
104.hydro2d	64	72.0	19195	64	71	19481
107.mgrid	64	59.2	24322	64	60	24086
110.applu	64	153	8290	64	153	8294
125.turb3d	64	88.1	26820	64	88	26844
141.apsi	64	55.6	21773	64	58	20894
145.fpppp	64	147	37659	64	145	38043
146.wave5	64	81.9	21087	64	75	23051
SPECfp_rate_base95 (G. Mean)			20220			
			SPECfp_rate95 (G. Mean)			20251

Notes/Tuning Information

```
Base: -O4 -qipa=level=2:noobject -lmass
Peak
101: -O4 -qipa=level=2:noobject -qhot=arraypad=52 -bnso -bI:/lib/syscalls.exp
102: -O4 -qipa=level=2:noobject -qhot=arraypad=28 -qstrict -qpdf1/pdf2 -lmass
103: -O4 -qipa=level=2:noobject -qhot=arraypad=44 -Pv -Wp,-ew,-o -lmass -bnso -bI:/lib/syscalls.exp
104: -O3 -qarch=pwr3 -qpdf1/pdf2 -bnso -bI:/lib/syscalls.exp
107: -O4 -qipa=level=2:noobject -lmass -bnso -bI:/lib/syscalls.exp; fdpr -R2
110: -O4 -qipa=level=2:noobject -qnosave -lmass
125: -O4 -qipa=level=2:noobject -qnosave -lmass
141: -O3 -qhot -qtbtable=none -qarch=pwr3 -qnosave -lmass -bnso -bI:/lib/syscalls.exp
145: -O4 -Q -Pv -Wp,-ea27,-o -1 -qnosave -qmaxmem=-1 -qpdf1/pdf2 -lmass -bnso -bI:/lib/syscalls.exp
146: -O3 -qarch=pwr3 -Pk -Wp,-ag=a,-f -qxlf77=nopersistent -lmass -bnso -bI:/lib/syscalls.exp
submit command per node (x in v60n0x is node #):
rsh v60n0x "cd %dir%; PATH=/gpfs/wh2fs1/spec95:$PATH %command% && exit 0
NOTE: All benchmark related files are contained in a single GPFS filesystem.
The local filesystem contains the operating system and paging space.
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