SPEC CFP95rate Results

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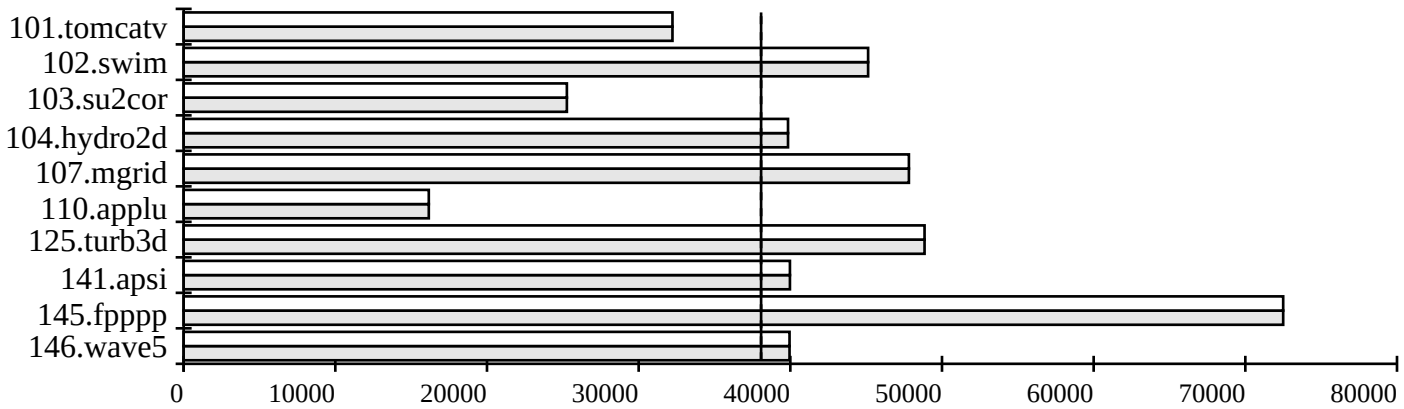
IBM Corporation
RS/6000 SP-375MHz (32 nodes, 4 CPUs each)

SPECfp_rate95 = 38073

SPECfp_rate_base95 = 38073

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 (32 nodes, 4 CPUs each)

Hardware

Model Name:	RS/6000 SP-375MHz (32 nodes, 4 CPUs each)
CPU:	375 MHz Power3-II
FPU:	Integrated
Number of CPU(s):	128
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	128	132	32229	128	132	32229
102.swim	128	220	45129	128	220	45129
103.su2cor	128	63.8	25267	128	64	25267
104.hydro2d	128	69.4	39848	128	69	39848
107.mgrid	128	60.2	47818	128	60	47818
110.applu	128	157	16163	128	157	16163
125.turb3d	128	96.7	48850	128	97	48850
141.apsi	128	60.5	39974	128	61	39974
145.fpppp	128	153	72496	128	153	72496
146.wave5	128	86.5	39948	128	87	39948
SPECfp_rate_base95 (G. Mean)			38073			
SPECfp_rate95 (G. Mean)						38073

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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-- Prepared By: --