SPEC CFP95rate Results

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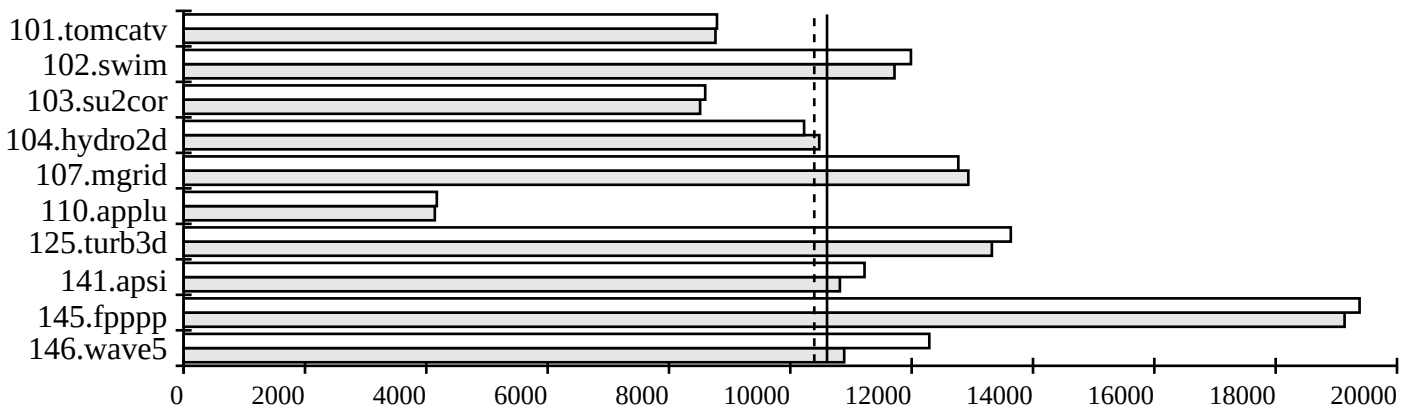
IBM Corporation
RS/6000 SP-375MHz (8 nodes, 4 CPUs each)

SPECfp_rate95 = 10605

SPECfp_rate_base95 = 10395

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 (8 nodes, 4 CPUs each)

Hardware

Model Name:	RS/6000 SP-375MHz (8 nodes, 4 CPUs each)
CPU:	375 MHz Power3-II
FPU:	Integrated
Number of CPU(s):	32
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	32	122	8766	32	121	8791
102.swim	32	211	11717	32	207	11988
103.su2cor	32	47.4	8513	32	47	8597
104.hydro2d	32	66.0	10477	32	68	10227
107.mgrid	32	55.7	12934	32	56	12769
110.applu	32	153	4140	32	152	4173
125.turb3d	32	88.6	13322	32	87	13634
141.apsi	32	55.9	10817	32	54	11223
145.fpppp	32	144	19136	32	143	19383
146.wave5	32	79.4	10888	32	70	12291
SPECfp_rate_base95 (G. Mean)			10395			
			SPECfp_rate95 (G. Mean)			10605

Notes/Tuning Information

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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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