SPEC CFP95rate Results

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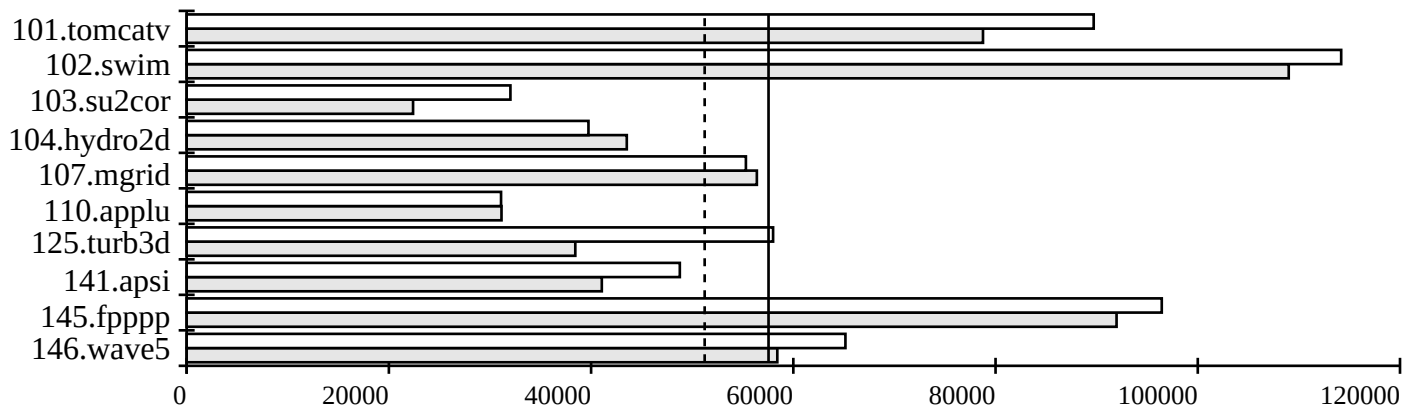
Compaq Computer Corporation
Compaq AlphaServer SC

SPECfp_rate95 = 57548

SPECfp_rate_base95 = 51232

SPEC license # 2	Tested By: Compaq NH	Test Date: Mar-2000	Hardware Avail: Mar-2000	Software Avail: Apr-2000



Hardware/Software Configuration for:
Compaq AlphaServer SC

Hardware

Model Name:	Compaq AlphaServer SC
CPU:	667 MHz 21264A
FPU:	Integrated
Number of CPU(s):	128, 32 nodes x 4 each
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	8MB off chip, per CPU
Other Cache:	none
Memory:	4GB per node
Disk Subsystem:	RAID-0 6x18GB (10,000 RPM), striped across 6x HSG80, attached to node 0
Other Hardware:	Ethernet

Software

Operating System:	Tru64 UNIX 5.0 AlphaServer SC System Software T1.0-49
Compiler:	Fortran V5.3 KAP Fortran V4.2
File System:	AdvFS
System State:	Multi User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	124	52.4	78758	124	46	89706
102.swim	124	88.1	108995	124	84	114183
103.su2cor	124	69.8	22392	124	49	32020
104.hydro2d	124	61.5	43529	124	67	39739
107.mgrid	124	49.5	56393	124	50	55309
110.applu	124	78.8	31138	124	79	31094
125.turb3d	124	119	38437	124	79	57999
141.apsi	124	57.1	41058	124	48	48774
145.fpppp	124	116	91968	124	111	96438
146.wave5	124	57.3	58416	124	51	65153
SPECfp_rate_base95 (G. Mean)			51232			
			SPECfp_rate95 (G. Mean)			57548

Notes/Tuning Information

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base:    kf77 -arch ev6 -O5 -transform_loops -fkapargs='-ur=1'
tomcatv: kf90 -arch ev6 -O5 -inline none
.        -fkapargs='-fuselevel=2 -ur=9 -ur2=460 -ur3=30 '
swim:    kf77 -arch ev6 -O5 -fkapargs='-ag=a -fuselevel=2 -ur=1'
su2cor:  kf90 -arch ev6 -O3 -transform_loops -automatic
.        -fkapargs=' -ag=abfg -r=0 -nointerleave -ur2=260 '
hydro2d: kf90 -arch ev6 -O5 -fkapargs='-fuselevel=2 -ur2=860'
mgrid:   kf77 -arch ev6 -O5 -speculate all -fkapargs='-fuselevel=2 -ur=1'
applu:   kf90 -arch ev6 -transform_loops -automatic -fkapargs=' -r=2 -o=0 -ur2=60 '
turb3d:  kf90 -arch ev6 -O5 -speculate all -automatic -fkapargs=' -ag=a -o=1 -ur2=760 -ur3=100 '
apsi:    kf90 -arch ev6 -O2 -pipeline -automatic
.        -fkapargs=' -fuselevel=2 -ur=8 -ur2=60 '
fpppp:   kf90 -arch ev6 -O2 -transform_loops -fkapargs='-so=0 -o=0'
wave5:   kf90 -arch ev6 -O5 -transform_loops -unroll 15
.        -fkapargs='-r=1 -o=2 -ur2=260 -ur3=30'
The SC is 32 nodes, 4 CPUs per node.  Nodes 1-31 were used to run benchmarks; node 0 had runspec itself.
There is also a front end, where the "Partition Manager" runs; it has 4x 667MHz Alpha 21264A CPUs.
submitnnn = echo "%command%" > dobmk; prun -B <node> -c 1 -n 1 -N 1 sh dobmk
The SPECfp_rate95 executables were only run on 124 of the 128 CPUs.
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For More Information Contact: SPEC info@spec.org http://www.spec.org/

-- Prepared By: --