SPEC CFP95rate Results

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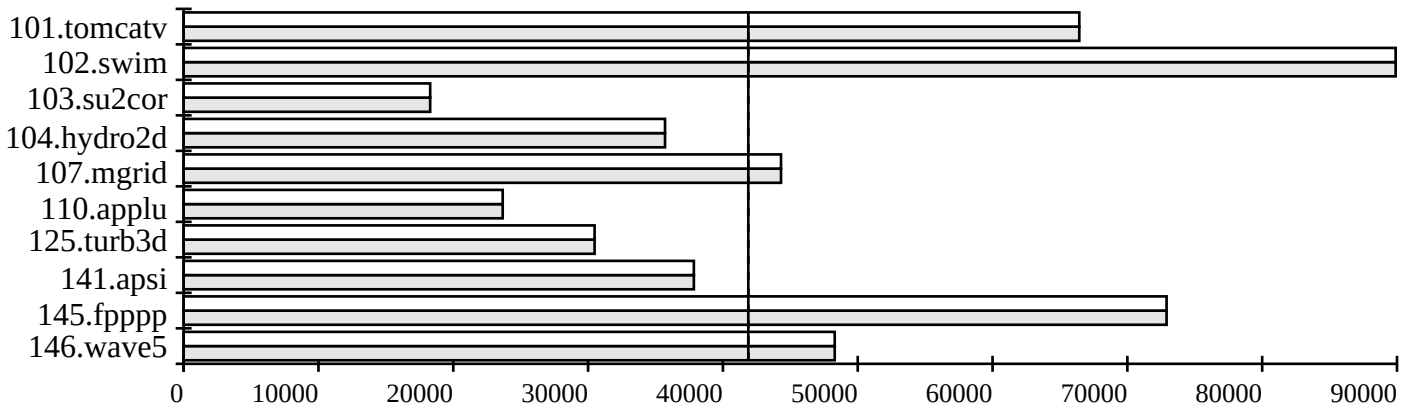
Compaq Computer Corporation
Compaq AlphaServer SC

SPECfp_rate95 = 41883

SPECfp_rate_base95 = 41883

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 (96 copies run), 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	96	48.1	66433	96	48	66433
102.swim	96	82.7	89900	96	83	89900
103.su2cor	96	66.1	18286	96	66	18286
104.hydro2d	96	58.1	35706	96	58	35706
107.mgrid	96	48.7	44309	96	49	44309
110.applu	96	80.3	23665	96	80	23665
125.turb3d	96	116	30482	96	116	30482
141.apsi	96	47.9	37845	96	48	37845
145.fpppp	96	114	72909	96	114	72909
146.wave5	96	53.7	48293	96	54	48293
SPECfp_rate_base95 (G. Mean)			41883			
SPECfp_rate95 (G. Mean)						41883

Notes/Tuning Information

```
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 96 of the 128 CPUs.
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For More Information Contact: SPEC info@spec.org http://www.spec.org/

-- Prepared By: --