SPEC CFP95rate Results

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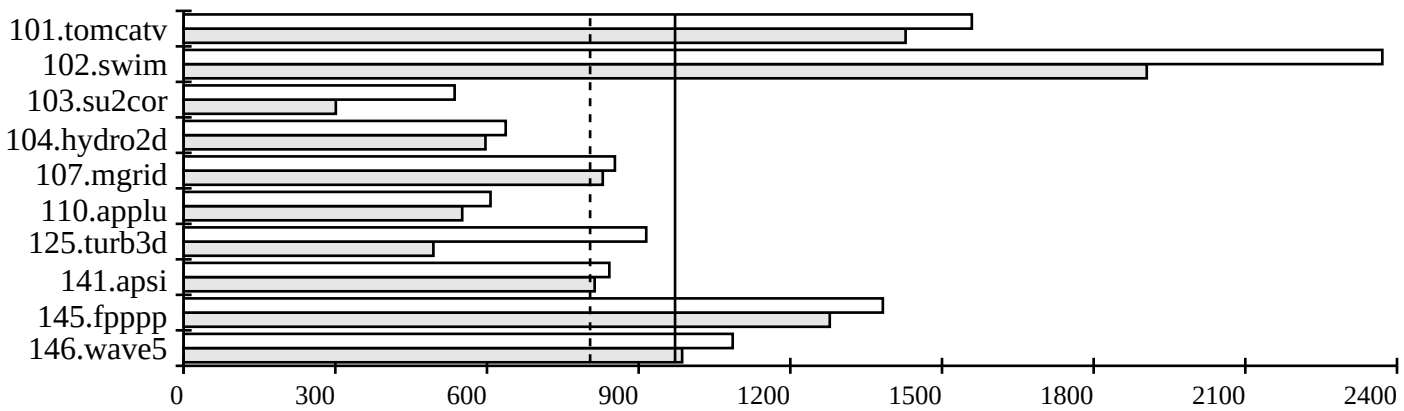
Compaq Computer Corporation AlphaServer ES40

SPECfp_rate95 = 972

SPECfp_rate_base95 = 804

SPEC license # 2	Tested By: Compaq NH	Test Date: Mar-99	Hardware Avail: Apr-99	Software Avail: Apr-99



Hardware/Software Configuration for:
AlphaServer ES40

Hardware

Model Name:	AlphaServer ES40
CPU:	500 MHz Alpha 21264
FPU:	Integrated
Number of CPU(s):	2
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB (I+D) off chip
Other Cache:	none
Memory:	8GB
Disk Subsystem:	2x9GB
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0F-4
Compiler:	Fortran V5.2 KAP Fortran V4.1
File System:	ufs
System State:	Multi-User

Benchmark # and Name	Base Copies	Base Run Time	Base SPEC Ratio	Copies	Run Time	SPEC Ratio
101.tomcatv	2	46.6	1428	2	43	1559
102.swim	2	81.3	1905	2	65	2371
103.su2cor	2	83.7	301	2	47	536
104.hydro2d	2	72.3	597	2	68	637
107.mgrid	2	54.3	829	2	53	853
110.applu	2	71.9	551	2	65	607
125.turb3d	2	149	494	2	81	915
141.apsi	2	46.5	813	2	45	842
145.fpppp	2	135	1278	2	125	1383
146.wave5	2	54.8	986	2	50	1086
SPECfp_rate_base95 (G. Mean)			804			
SPECfp_rate95 (G. Mean)						972

Notes/Tuning Information

```
base:    kf77 -arch ev6 -O5 -transform_loops -fkapargs='-ur=1'

tomcatv: kf90 -arch ev6 -O5 -inline none
.             -fkapargs='-fuselevel=2 -interleave -ur=9 -ur2=460 -ur3=30 '
swim:    kf77 -arch ev6 -O5 -fkapargs='-ag=a -fuselevel=2 -ur=1'
su2cor:  kf90 -arch ev6 -speculate all -transform_loops -unroll 8 -fkapargs=' -ag=abfg -ur=1 '
hydro2d: kf90 -arch ev6 -O5 -fkapargs='-fuselevel=2 -ur2=400'
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 -O5 -automatic
.             -fkapargs=' -fuse -o=4 -interleave -ur=8 -ur2=60 '
fpppp:   kf90 -arch ev6 -O2 -transform_loops -fkapargs='-so=0 -o=0'
wave5:   kf77 -arch ev6 -O5 -unroll 5 -fkapargs='-ag=a -ur=7 -ur3=10'
```

For More Information Contact:
SPEC
10754 Ambassador Drive, Suite 201
Manassas, VA 20109
(703) 331-0180
info@specbench.org
http://www.specbench.org/

-- Prepared By: --