SPEC CFP95rate Results

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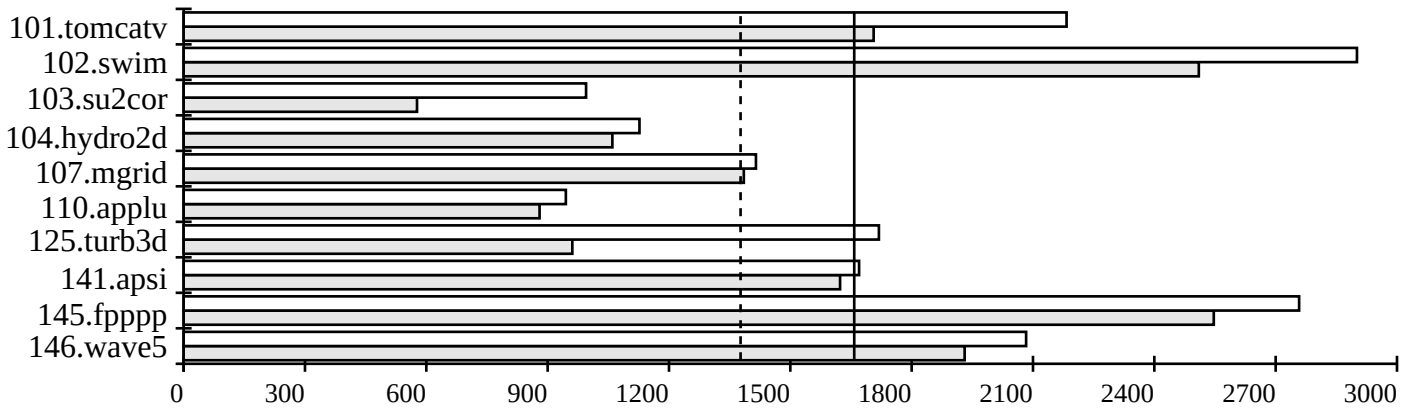
Compaq Computer Corporation AlphaServer ES40

SPECfp_rate95 = 1658

SPECfp_rate_base95 = 1377

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



SPECrate

Hardware/Software Configuration for:
AlphaServer ES40

Hardware

Model Name:	AlphaServer ES40
CPU:	500 MHz Alpha 21264
FPU:	Integrated
Number of CPU(s):	4
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	4	78.1	1706	4	61	2183
102.swim	4	123	2510	4	107	2901
103.su2cor	4	87.4	577	4	51	995
104.hydro2d	4	81.5	1060	4	77	1127
107.mgrid	4	65.0	1385	4	64	1415
110.applu	4	90.0	880	4	84	945
125.turb3d	4	154	961	4	86	1719
141.apsi	4	46.6	1623	4	45	1670
145.fpppp	4	136	2547	4	125	2758
146.wave5	4	55.9	1931	4	52	2083
SPECfp_rate_base95 (G. Mean)			1377			
SPECfp_rate95 (G. Mean)						1658

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'
```

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-- Prepared By: --