SPEC CFP95rate Results

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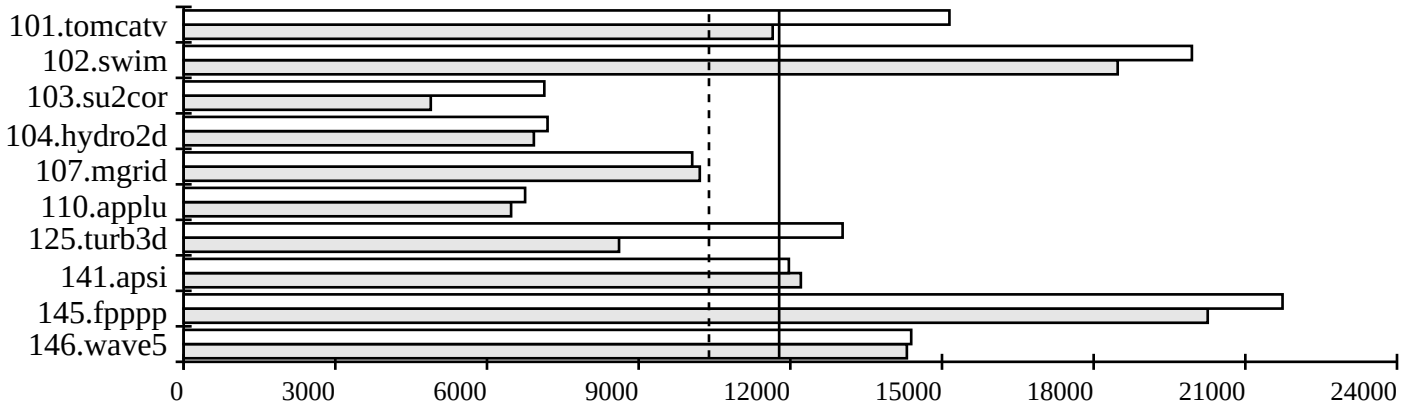
Compaq Computer Corporation
AlphaServer HPC320 Model 6/500

SPECfp_rate95 = 11779

SPECfp_rate_base95 = 10391

SPEC license # 2 | Tested By: Compaq NH | Test Date: Feb-2000 | Hardware Avail: May-1999 | Software Avail: Dec-1999



SPECrate

Hardware/Software Configuration for:
AlphaServer HPC320 Model 6/500

Hardware

Model Name:	AlphaServer HPC320 Model 6/500
CPU:	500 MHz 21264
FPU:	Integrated
Number of CPU(s):	32, 8 nodes x 4 each
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	4MB off chip per cpu
Other Cache:	none
Memory:	Nodes 0-6 @ 4GB, 6-7 @ 16GB
Disk Subsystem:	24x9GB (10,000 RPM) 4x sw stripe x 6x RAID0 hw stripe 2 HSG80 controllers
Other Hardware:	Ethernet

Software

Operating System:	Digital UNIX X4.0F
Compiler:	Fortran V5.3 KAP Fortran V4.2
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	32	91.5	11651	32	70	15147
102.swim	32	134	18475	32	124	19943
103.su2cor	32	82.5	4888	32	57	7134
104.hydro2d	32	99.8	6927	32	96	7198
107.mgrid	32	70.5	10209	32	72	10059
110.applu	32	97.8	6477	32	94	6754
125.turb3d	32	137	8612	32	91	13034
141.apsi	32	49.5	12208	32	51	11971
145.fpppp	32	136	20256	32	127	21736
146.wave5	32	60.4	14305	32	60	14391
SPECfp_rate_base95 (G. Mean)			10391			
SPECfp_rate95 (G. Mean)						11779

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'

submitnnn = rsh <node> "cd %dir%; runon <cpu> %command% && exit 0"
```