# SPEC CFP95 Results

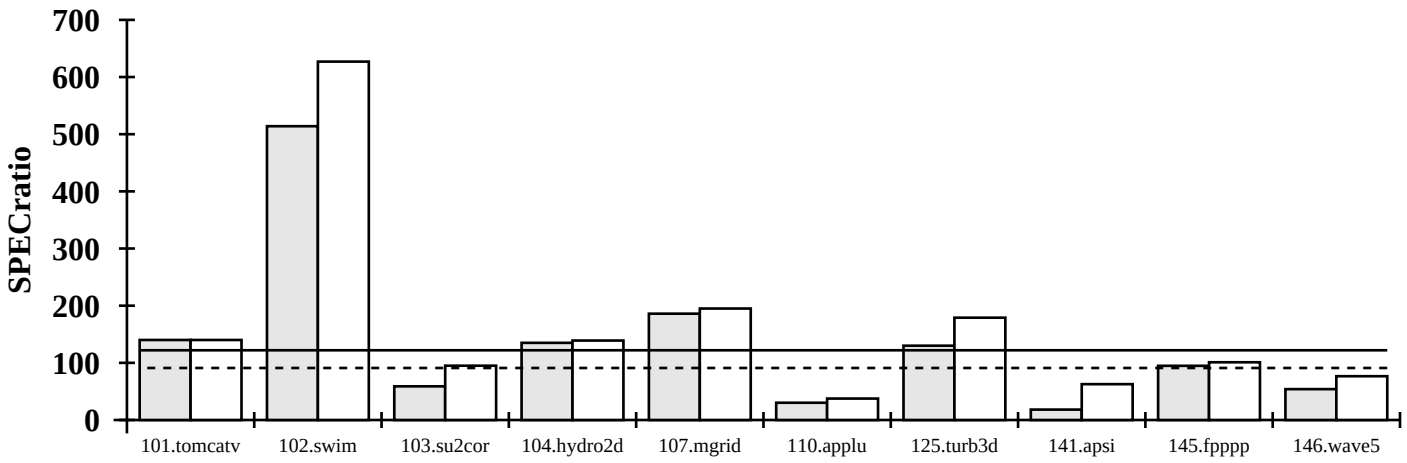
©Copyright 1995, Standard Performance Evaluation Corporation

## Compaq Computer Corporation
## AlphaServer GS140 Model 6/700

SPECfp95 = 122

SPECfp_base95 = 91.0

| SPEC license # 2 | Tested By: Compaq NH | Test Date: Dec-99 | Hardware Avail: Nov-99 | Software Avail: Dec-99 |
|---|---|---|---|---|




Hardware/Software Configuration for:
AlphaServer GS140 Model 6/700

**Hardware**

| | |
|---|---|
| Model Name: | AlphaServer GS140 Model 6/700 |
| CPU: | 700 MHz 21264A |
| FPU: | Integrated |
| Number of CPU(s): | 4 |
| Primary Cache: | 64KB(I)+64KB(D) on chip |
| Secondary Cache: | 8MB |
| Other Cache: | none |
| Memory: | 8GB (4x2GB) |
| Disk Subsystem: | 3x4GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Tru64 UNIX V4.0F + Patches 0087.00, 0071.00 (from V4.0F Patch kit 2) |
| Compiler: | Compaq Fortran V5.3<br>KAP Fortran V4.2 |
| File System: | UFS |
| System State: | Multi-User |

| Benchmark # and Name | Reference Time | Base Run Time | Base SPEC Ratio | Run Time | SPEC Ratio |
|---|---|---|---|---|---|
| 101.tomcatv | 3700 | 26.4 | 140 | 26 | 140 |
| 102.swim | 8600 | 16.7 | 514 | 14 | 627 |
| 103.su2cor | 1400 | 23.8 | 58.9 | 15 | 95.0 |
| 104.hydro2d | 2400 | 17.8 | 135 | 17 | 139 |
| 107.mgrid | 2500 | 13.4 | 186 | 13 | 195 |
| 110.applu | 2200 | 72.9 | 30.2 | 59 | 37.5 |
| 125.turb3d | 4100 | 31.5 | 130 | 23 | 179 |
| 141.apsi | 2100 | 115 | 18.2 | 33 | 62.7 |
| 145.fpppp | 9600 | 101 | 94.8 | 95 | 101 |
| 146.wave5 | 3000 | 55.6 | 54.0 | 39 | 76.6 |
| SPECfp_base95 (G. Mean) | | | 91.0 | | |
| | | SPECfp95 (G. Mean) | | | 122 |

## Notes/Tuning Information

```
Compiler: kf90 unless noted otherwise
Baseline: -O5 -fkapargs='-ipa_optimize=2 -mc=1575 -ur=1'
tomcatv:  -g3 -O5 -fkapargs='-ipa_optimize=2 -mc=1575 -ur=1'
swim:     -g3 -O5 -fkapargs='-ag=a -ur=1 -conc'
su2cor:   -g3 -O5 -transform_loops -unroll 8 -speculate all
.                 -fkapargs='-ag=abfg -conc -ur=1'
hydro2d:  -g3 -O5 -transform_loops -inline speed
.                 -fkapargs='-ag=ab -ur=1 -conc'
mgrid:    -g3 -O5 -speculate all -fkapargs='-ipa -ur=1 -ag=ab -conc -fuselevel=1'
applu:    -g3 -transform_loops -fkapargs='-ag=a -conc -ipa_optimize=2'
turb3d:   -g3 -O5 -fkapargs='-ag=ab -conc -ipa_optimize=2 '
apsi:     -g3 -O5 -automatic
.                 -fkapargs=' -fuse -o=4 -interleave -ur=8 -ur2=60 '
fpppp:    -g3 -O2 -transform_loops -fkapargs='-so=0 -o=0'
wave5:   kf77 -g3 -O5 -unroll 5 -fkapargs='-ag=a -ur=7 -ur3=10 -tune=ev6'
```

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

-- Prepared By: --