# SPEC CFP95 Results

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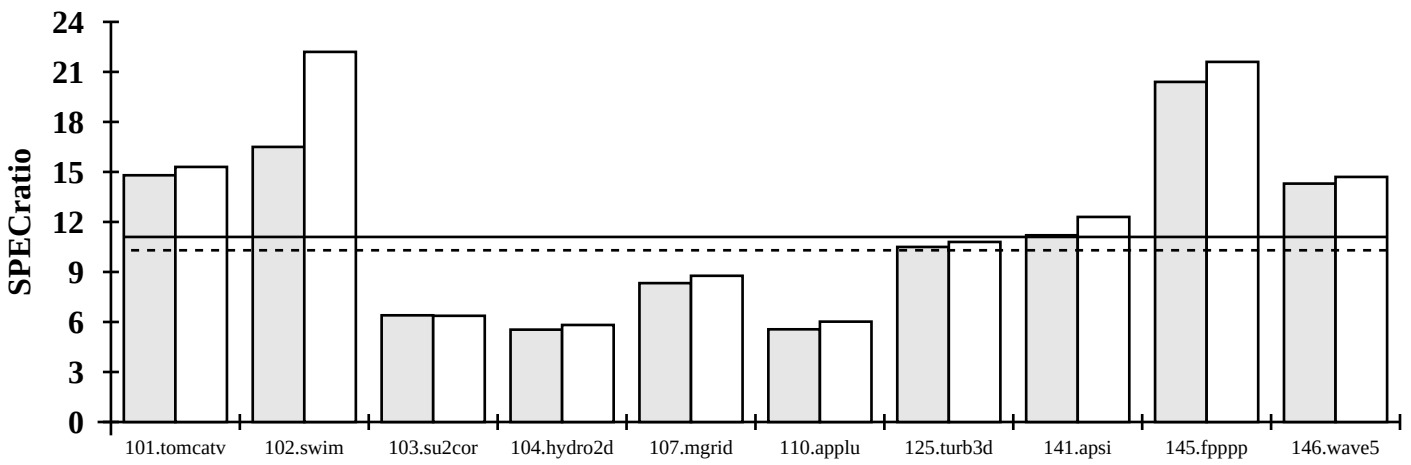
## Digital Equipment Corp.
## AlphaStation 500/266

SPECfp95 = 11.1

SPECfp_base95 = 10.3

| SPEC license # 2 | Tested By: Digital NH | Test Date: Jul-96 | Hardware Avail: Mar-96 | Software Avail: Aug-96 |
|---|---|---|---|---|




Hardware/Software Configuration for:
AlphaStation 500/266

**Hardware**

| | |
|---|---|
| Model Name: | AlphaStation 500/266 |
| CPU: | 266 MHz 21164 |
| FPU: | Integrated |
| Number of CPU(s): | 1 |
| Primary Cache: | 8KB(I)+8KB(D) on chip |
| Secondary Cache: | 96KB on chip |
| Other Cache: | 2MB |
| Memory: | 128MB |
| Disk Subsystem: | 1 x 2GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Digital UNIX V4.0A |
| Compiler: | DEC FORTRAN V4.0<br>KAPF V3 960401<br>DEC C X5.3-148-334R |
| File System: | UFS |
| System State: | Multi User<br>vm-page-free-min=5760 |

| Benchmark # and Name | Reference Time | Base Run Time | Base SPEC Ratio | Run Time | SPEC Ratio |
|---|---|---|---|---|---|
| 101.tomcatv | 3700 | 250 | 14.8 | 243 | 15.3 |
| 102.swim | 8600 | 522 | 16.5 | 388 | 22.2 |
| 103.su2cor | 1400 | 219 | 6.40 | 220 | 6.37 |
| 104.hydro2d | 2400 | 433 | 5.54 | 413 | 5.82 |
| 107.mgrid | 2500 | 300 | 8.33 | 285 | 8.77 |
| 110.applu | 2200 | 396 | 5.56 | 366 | 6.02 |
| 125.turb3d | 4100 | 391 | 10.5 | 379 | 10.8 |
| 141.apsi | 2100 | 188 | 11.2 | 171 | 12.3 |
| 145.fpppp | 9600 | 470 | 20.4 | 445 | 21.6 |
| 146.wave5 | 3000 | 209 | 14.3 | 204 | 14.7 |
| SPECfp_base95 (G. Mean) | | | 10.3 | | |
| | | SPECfp95 (G. Mean) | | | 11.1 |

## Notes/Tuning Information

```
compiler: kf77  baseline optimizations: -noautomatic -O5

Peak:   tomcatv: -O5 -om -tL -h/usr/lib/cmplrs/cc.alt -B -fkapargs='-tune=ev5 -ag=ab -fuse'
swim: -O5 -om -tL -h/usr/lib/cmplrs/cc.alt -B -align dcommons -fkapargs='-tune=ev5 -ag=ab  -ur=2 -ur2=600 '
su2cor: -transform_loops -speculate all     hydro2d: -tune ev5  -O5  -om -tL -h/usr/lib/cmplrs/cc.alt -B
-inline speed -fkapargs='-tune=ev4  -ur=8  -ur2=400 -ipa_optimize=2'     mgrid: -O5 -om -tL
-h/usr/lib/cmplrs/cc.alt -B -transform_loops -speculate all -fkapargs='-tune=ev5 -fuse '
applu: -tune ev5 -O5 -fkapargs='-tune=ev4  -fuse -ag=a'     turb3d: -O5 -nopipeline -fkapargs='-tune=ev5
-fuse '  with feedback     apsi: -O5 -om -tL -h/usr/lib/cmplrs/cc.alt -B -transform_loops
-fkapargs='-tune=ev5 -ag=ab -ur=4 -ur2=800 -nat -ipa_optimize=2'     fpppp: -O2 -noautomatic
-fkapargs='-so=0 -o=0'     wave5: -speculate all -fkapargs='-tune=ev5 -ag=a -nat -ur=5 -ur2=600'
with feedback

feedback: PASS1=-gen_feedback
fdo_pre1=mv %binary% %exename%.orig;pixie -pids %exename%.orig -o %exename%
fdo_run1=%command%
fdo_post1=prof -pixie -feedback ../../src/%exename%.fb %exename%.orig %exename%.orig.Addrs %exename%.orig.Counts.*
PASS2=-feedback $(EXENAME).fb
```

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