# SPEC CFP95rate Results

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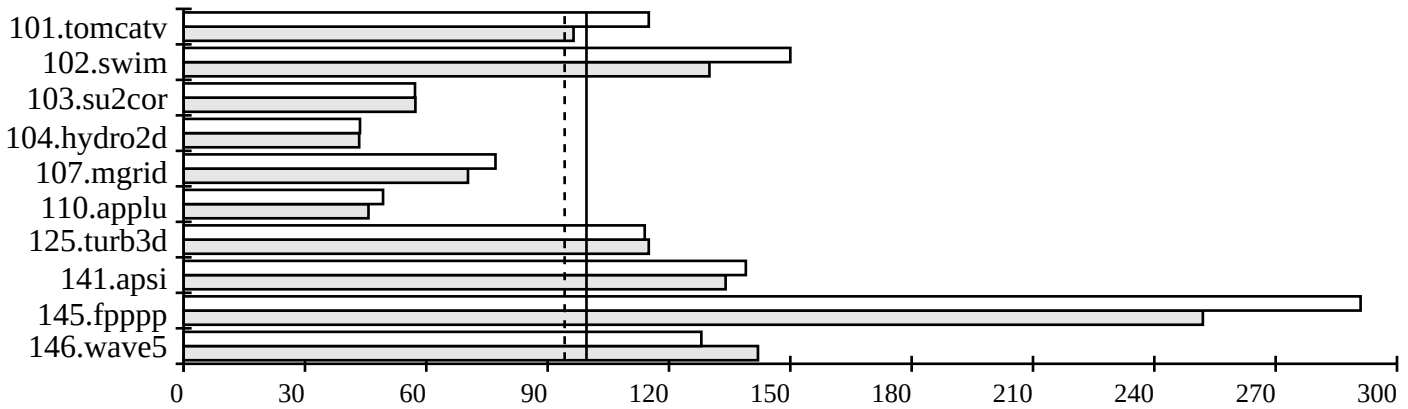
## Digital Equipment Corp.
## AlphaServer 1000A 5/400

| | | |
|---|---|---|
| SPECfp_rate95 | = | 99.6 |
| SPECfp_rate_base95 | = | 94.2 |

| SPEC license # 2 | Tested By: Digital NH | Test Date: Oct-96 | Hardware Avail: Nov-96 | Software Avail: Dec-96 |
|---|---|---|---|---|




**SPECrate**

Hardware/Software Configuration for:
AlphaServer 1000A 5/400

**Hardware**

| | |
|---|---|
| Model Name: | AlphaServer 1000A 5/400 |
| CPU: | 400 MHz 21164 |
| FPU: | Integrated |
| Number of CPU(s): | 1 |
| Primary Cache: | 8KB(I)+8KB(D) on chip |
| Secondary Cache: | 96KB |
| Other Cache: | 2MB |
| Memory: | 128MB |
| Disk Subsystem: | 1 x 4GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Digital UNIX 4.0A |
| Compiler: | Digital FORTRAN T4.1-338L<br>KAPF 3.0A 960725 |
| File System: | UFS |
| System State: | Multi User; vm-page-free-min=5760 |

| Benchmark # and Name | Base Copies | Base Run Time | Base SPEC Ratio | Copies | Run Time | SPEC Ratio |
|---|---|---|---|---|---|---|
| 101.tomcatv | 1 | 345 | 96.4 | 1 | 291 | 115 |
| 102.swim | 1 | 596 | 130 | 1 | 516 | 150 |
| 103.su2cor | 1 | 220 | 57.3 | 1 | 220 | 57.2 |
| 104.hydro2d | 1 | 498 | 43.4 | 1 | 495 | 43.6 |
| 107.mgrid | 1 | 320 | 70.3 | 1 | 292 | 77.1 |
| 110.applu | 1 | 434 | 45.7 | 1 | 402 | 49.3 |
| 125.turb3d | 1 | 322 | 115 | 1 | 324 | 114 |
| 141.apsi | 1 | 141 | 134 | 1 | 136 | 139 |
| 145.fpppp | 1 | 342 | 252 | 1 | 297 | 291 |
| 146.wave5 | 1 | 190 | 142 | 1 | 210 | 128 |
| SPECfp_rate_base95 (G. Mean) | | | 94.2 | | | |
| SPECfp_rate95 (G. Mean) | | | | | | 99.6 |

## Notes/Tuning Information

```
Compiler invokation: kf77      Base optimizations: -O5

Peak uses 'setenv DECFORT_CC cc.alt', plus:
tomcatv: -O5 -om -fkapargs='-tune=ev5 -ag=ab -fuselevel=2'
swim: -O5 -tune ev5 -om -transform_loops -fkapargs='-ag=ab -r=1 -ur=2 -ur2=600 '
su2cor: -transform_loops -speculate all
hydro2d: -O5 -om -inline speed -fkapargs='-tune=ev4 -ur=8 -ur2=400 -ipa_optimize=2'
mgrid: -O5 -om -transform_loops -speculate all -fkapargs='-tune=ev5 -fuselevel=1 -ipa'
applu: -O5 -fkapargs='-tune=ev4  -fuse -ag=a'
turb3d: -O5 -nopipeline -fkapargs='-tune=ev5 -fuse -fuselevel=2 -ipa'
apsi: -O5 -om -transform_loops -fkapargs='-tune=ev5 -ag=ab -ur=4 -ur2=800 -ipa_optimize=2'
fpppp: -O2 -fkapargs='-so=0 -o=0'
wave5: -speculate all -fkapargs='-ag=a -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
```

For More Information Contact:
SPEC
10754 Ambassador Drive, Suite 201
Manassas, VA 22110
(703) 331-0180
info@specbench.org
http://www.specbench.org