# SPEC CFP95rate Results

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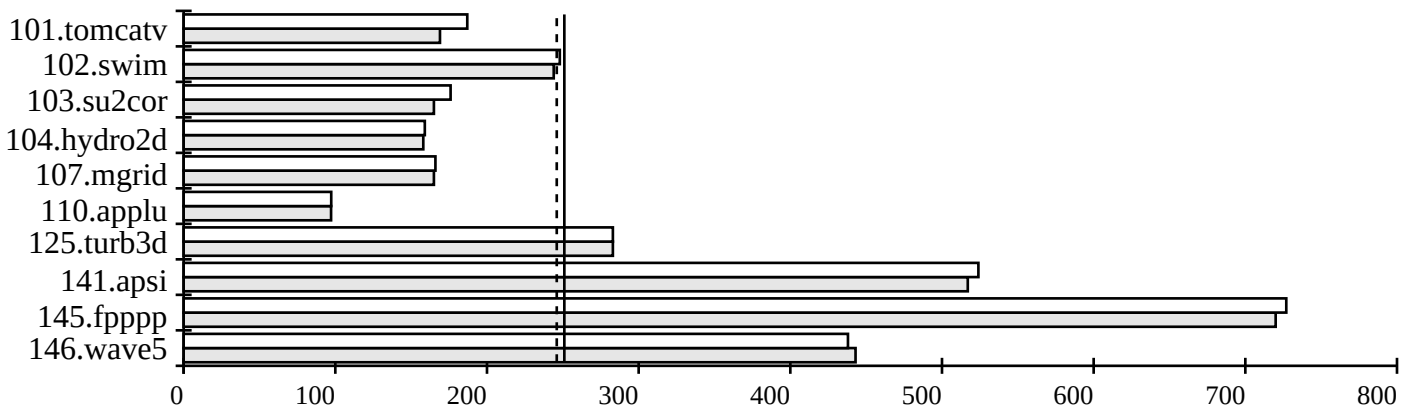
## Digital Equipment Corp.
## AlphaServer 2100 5/300

SPECfp_rate95 = 251

SPECfp_rate_base95 = 246

| SPEC license # 2 | Tested By: Digital NH | Test Date: Oct-95 | Hardware Avail: Jan-96 | Software Avail: Aug-95 |
|---|---|---|---|---|




Hardware/Software Configuration for:
AlphaServer 2100 5/300

**Hardware**

| | |
|---|---|
| Model Name: | AlphaServer 2100 5/300 |
| CPU: | 291 MHz 21164 |
| FPU: | Integrated |
| Number of CPU(s): | 4 |
| Primary Cache: | 8KBI+8KBD on chip |
| Secondary Cache: | 96KB |
| Other Cache: | 4MB |
| Memory: | 1GB |
| Disk Subsystem: | 1 x 2GB<br>1 x 2GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Digital UNIX V3.2C (Rev 148) |
| Compiler: | DEC FORTRAN V3.8<br>KAPF V2.1 |
| 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 | 787 | 169 | 4 | 714 | 187 |
| 102.swim | 4 | 1267 | 244 | 4 | 1247 | 248 |
| 103.su2cor | 4 | 306 | 165 | 4 | 287 | 176 |
| 104.hydro2d | 4 | 548 | 158 | 4 | 545 | 159 |
| 107.mgrid | 4 | 546 | 165 | 4 | 543 | 166 |
| 110.applu | 4 | 815 | 97.2 | 4 | 814 | 97.3 |
| 125.turb3d | 4 | 522 | 283 | 4 | 522 | 283 |
| 141.apsi | 4 | 146 | 517 | 4 | 144 | 524 |
| 145.fpppp | 4 | 480 | 720 | 4 | 475 | 727 |
| 146.wave5 | 4 | 244 | 443 | 4 | 247 | 438 |
| SPECfp_rate_base95 (G. Mean) | | | 246 | | | |
| SPECfp_rate95 (G. Mean) | | | | | | 251 |

## Notes/Tuning Information

```
Baseline:   kf77 -fast -O5 -non_shared -om
Peak:     kf77
101.tomcatv: -fast -O5 -non_shared -om  -WL,-om_Gcommon,1000 -fkapargs='-tune=ev5 -nat -fuse'
102.swim: -fast -O5 -non_shared -om -align dcommons -tune ev5 -fkapargs='-ag=ab  -ur=2 -ur2=600 -nat'
103.su2cor: -fast -O5 -non_shared -om -tune ev5 -fkapargs='-ag=a -nat'
104.hydro2d: -fast -O5 -non_shared -om -inline speed -tune ev5 -fkapargs=' -ur=8  -ur2=400'
107.mgrid: -fast -O5 -non_shared -om -WL,-om_dead_code -fkapargs='-tune=ev5 -fuse'
110.applu: -fast -O5 -non_shared -om -WL,-om_dead_code -tune ev5 -fkapargs=' -fuse -nat -ag=a'
125.turb3d: -fast -O5 -non_shared -om -automatic  -fkapargs=' -fuse -nat'
141.apsi: -fast -O5 -non_shared -om  -fkapargs=' -tune=ev5 -ag=ab -ur=4 -ur2=800 -nat'
145.fpppp: -fast -O5 -non_shared -om -fkapargs='-tune=ev5 -ag=a -ur=4 -ur2=560'
146.wave5: -fast -O4 -non_shared -tune ev5 -fkapargs='-ag=a -nat -ur=5 -ur2=600'
```

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