# SPEC CINT95 Results

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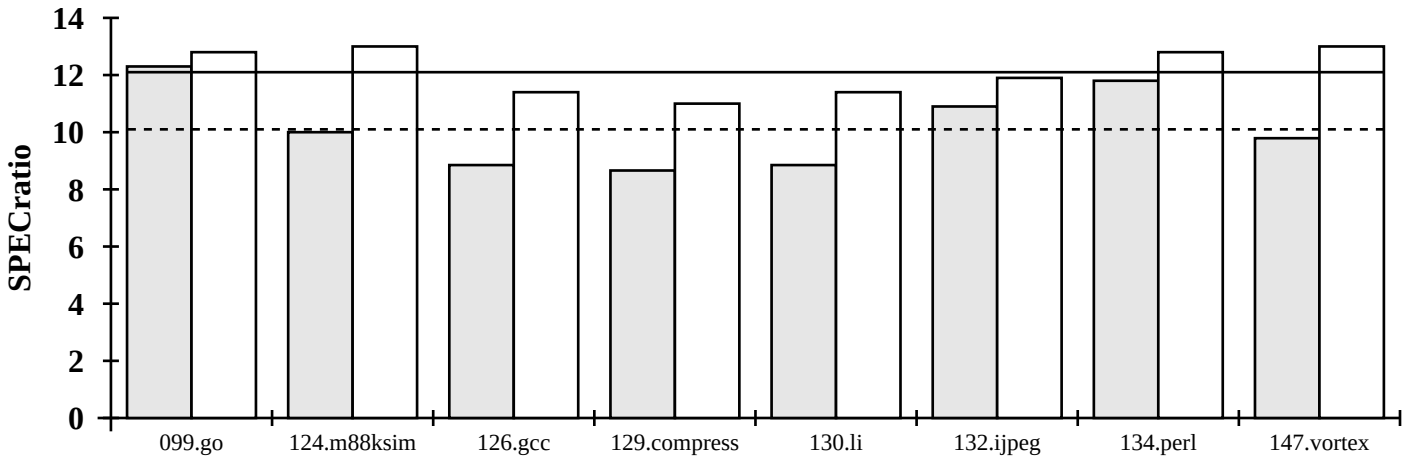
## Digital Equipment Corp.
## AlphaServer 4100 5/400

SPECint95 = 12.1

SPECint_base95 = 10.1

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




Hardware/Software Configuration for:
AlphaServer 4100 5/400

**Hardware**

| | |
|---|---|
| Model Name: | AlphaServer 4100 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: | 4MB |
| Memory: | 128MB |
| Disk Subsystem: | 1 x 2GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Digital UNIX T4.0A-2 |
| Compiler: | DEC C X5.3-148-334R<br>cc.alt/protect_headers.sh |
| File System: | UFS |
| System State: | Multi User; vm-page-free-min = 5760 |

| Benchmark # and Name | Reference Time | Base Run Time | Base SPEC Ratio | Run Time | SPEC Ratio |
|---|---|---|---|---|---|
| 099.go | 4600 | 374 | 12.3 | 359 | 12.8 |
| 124.m88ksim | 1900 | 189 | 10.0 | 147 | 13.0 |
| 126.gcc | 1700 | 192 | 8.85 | 149 | 11.4 |
| 129.compress | 1800 | 208 | 8.66 | 164 | 11.0 |
| 130.li | 1900 | 215 | 8.85 | 166 | 11.4 |
| 132.ijpeg | 2400 | 220 | 10.9 | 202 | 11.9 |
| 134.perl | 1900 | 161 | 11.8 | 148 | 12.8 |
| 147.vortex | 2700 | 276 | 9.79 | 208 | 13.0 |
| SPECint_base95 (G. Mean) | | | 10.1 | | |
| | | SPECint95 (G. Mean) | | | 12.1 |

## Notes/Tuning Information

```
Compiler: cc.alt -migrate -std1   Base optimizations: -O5 -arch ev56 -non_shared -om
Portability flags: m88ksim: -DLEHOST   perl: -DI_TIME   vortex: -D__RISC_64__

Peak flags: all use -ifo -non_shared    go: -O4 -inline speed -om    m88ksim: -O5 -speculate all -inline speed
with feedback    gcc: -O5 -inline speed -arch ev56 -xtaso_short with feedback    compress: -O5 -tune ev5 -32data
-Wf,-noptrs_to_globals -arch ev56 -inline speed -om -lsys5    li: -O5 -inline speed -xtaso_short -speculate all
-lsys5 with feedback    ijpeg: -O5 -fast -unsigned -inline speed -arch ev56 -speculate all -lsys5 with feedback
perl: -O5 -inline speed -arch ev56 -lsys5 with feedback pass-2 only    vortex: -O5 -fast -inline speed with feedback

feedback: PASS1=-gen_feedback -g1
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 -r -ifo
fdo_pre2=mv %exename% %exename%.rr;ld -o %exename%fb %exename%.rr -lexc;pixie -pids %exename%fb -o %exename%
fdo_run2=%command%
fdo_post2=ld -om %exename%.rr -o %exename%.rrom -lexc;prof -pixie -merge %exename%fb.Counts %exename%fb %exename%fb.Addrs
%exename%fb.Counts.*;/usr/lib/cmplrs/cc/om -om_ireorg_feedback %exename%fb -o %binary% %exename%.rrom
gcc and li add -taso to feedback commands om and ld
```

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