# SPEC CINT95 Results

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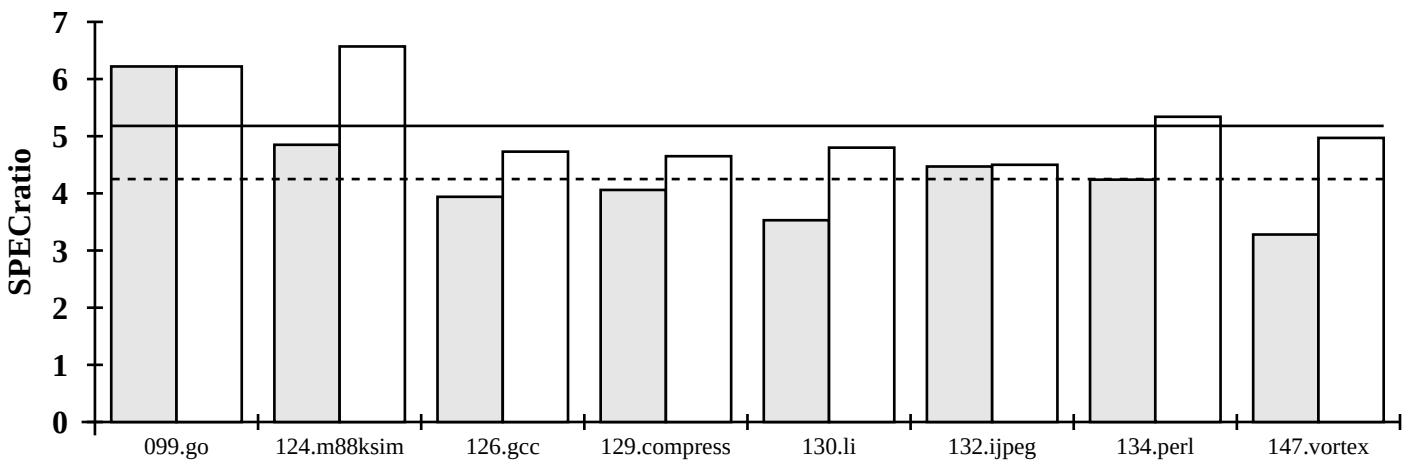
## Digital Equipment Corp.
## AlphaStation 250 4/266

SPECint95 = 5.18

SPECint_base95 = 4.25

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




Hardware/Software Configuration for:
AlphaStation 250 4/266

**Hardware**

| | |
|---|---|
| Model Name: | AlphaStation 250 4/266 |
| CPU: | 266 MHz 21064A |
| FPU: | Integrated |
| Number of CPU(s): | 1 |
| Primary Cache: | 16KB(I)+16KB(D) on chip |
| Secondary Cache: | 2MB |
| Other Cache: | none |
| Memory: | 128MB |
| Disk Subsystem: | 1 x 2GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Digital UNIX V4.0A |
| Compiler: | DEC C X5.3-148-334R<br>cc.alt/protect_headers.sh |
| 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 |
|---|---|---|---|---|---|
| 099.go | 4600 | 740 | 6.22 | 739 | 6.22 |
| 124.m88ksim | 1900 | 392 | 4.85 | 289 | 6.57 |
| 126.gcc | 1700 | 432 | 3.94 | 359 | 4.73 |
| 129.compress | 1800 | 444 | 4.06 | 387 | 4.65 |
| 130.li | 1900 | 539 | 3.53 | 396 | 4.80 |
| 132.ijpeg | 2400 | 536 | 4.47 | 533 | 4.50 |
| 134.perl | 1900 | 448 | 4.24 | 356 | 5.34 |
| 147.vortex | 2700 | 824 | 3.28 | 544 | 4.97 |
| SPECint_base95 (G. Mean) | | | 4.25 | | |
| | | SPECint95 (G. Mean) | | | 5.18 |

## Notes/Tuning Information

```
Compiler invokation: cc.alt -migrate -std1     Base optimizations: -O4 -ifo -non_shared -om
Portability flags: m88ksim: -DLEHOST; perl: -DI_TIME; vortex: -D__RISC_64__

Peak: all use -ifo -non_shared.  Additional flags:    go: -O4 -non_shared -om    m88ksim: -O4
-inline speed with feedback    gcc: -O4 -inline speed -xtaso_short -taso with feedback    compress: -O4 -tune
ev4 -32data -inline speed -assume whole_program -om -lsys5    li: -O4 -inline speed -xtaso_short
-speculate all -lsys5 -taso with feedback    ijpeg: -O5 -fast -unsigned -inline speed -speculate all -lsys5
with feedback    perl: -O5 -inline speed -lsys5 with feedback pass 2 only    vortex: -inline speed
-speculate all 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
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
For gcc and li, -taso is added to feedback ld and om commands.
```

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

-- Prepared By: --