# **SVCK: SystemVerilog Checker - Linter**

## **Installation:**

1. Clone the repository:

git clone https://github.com/AsFigo/svck.git

cd svck

2. Install required dependencies - Verible mainly

See: https://github.com/chipsalliance/verible

3. pip install anytree

**Issue 1:**

**1. Module Not Found Error: No module named 'string\_utils'make**

Run the make command, here it is (myenv) hemamalini@DESKTOP-GUBR09E:~/svck/examples$ makepython3 ../bin/svck.py -t ../tests/test\_cl\_gvar.svTraceback (most recent call last): File "/home/hemamalini/svck/examples/../bin/svck.py", line 8, in <module> from asfigo\_linter import AsFigoLinter File "/home/hemamalini/svck/src/asfigo\_linter.py", line 15, in <module> import string\_utils.validation as str\_valModuleNotFoundError: No module named 'string\_utils'make: \* [Makefile:2: all] Error 1

**Steps taken:**

1. Install the ‘string\_utils’ using below command:

pip install python-string-utils

**2. FileNotFoundError: [Errno 2] No such file or directory: 'verible-verilog-syntax'**

python3 ../bin/svck.py -t ../tests/test\_cl\_gvar.sv

AsFigo: Config file 'config.toml' not found. Using default settings.

Traceback (most recent call last):

File "/home/sajanalulu/svck/examples/../bin/svck.py", line 43, in <module>

byolDemo.runLinter()

File "/home/sajanalulu/svck/examples/../bin/svck.py", line 30, in runLinter

treeData = self.loadSyntaxTree()

File "/home/sajanalulu/svck/examples/../bin/svck.py", line 26, in loadSyntaxTree

return parser.parse\_files([self.testName], options={"gen\_tree": True})

File "/home/sajanalulu/svck/bin/verible\_verilog\_syntax.py", line 493, in parse\_files

return self.\_parse(paths, options = options)

File "/home/sajanalulu/svck/bin/verible\_verilog\_syntax.py", line 439, in \_parse

proc = subprocess.run([self.executable, \*args , \*paths],

File "/usr/lib/python3.10/subprocess.py", line 503, in run

with Popen(\*popenargs, \*\*kwargs) as process:

File "/usr/lib/python3.10/subprocess.py", line 971, in \_\_init\_\_

self.\_execute\_child(args, executable, preexec\_fn, close\_fds,

File "/usr/lib/python3.10/subprocess.py", line 1863, in \_execute\_child

raise child\_exception\_type(errno\_num, err\_msg, err\_filename)

FileNotFoundError: [Errno 2] No such file or directory: 'verible-verilog-syntax'

make: \*\*\* [Makefile:2: all] Error 1

**Steps taken:**

1. Clone the verible repo

git clone https://github.com/chipsalliance/verible

2. Install bazel:

sudo apt update && sudo apt install -y bazel

3. Change directory verible and run this command:

bazel build -c opt //...

4. After successfully run, set the environment path inside the svck directory export PATH=$HOME/verible/bazel-bin/verible/verilog/tools/syntax:$PATH

5. Change directory in svck/examples and run command: make

**3. ERROR: --enable\_bzlmod :: Unrecognized option: --enable\_bzlmod**

Starting local Bazel server and connecting to it...

INFO: Reading rc options for 'build' from /home/hemamalini/verible/.bazelrc:

'build' options: --enable\_bzlmod --define=absl=1 --enable\_platform\_specific\_config --workspace\_status\_command=bash bazel/build-version.sh --cxxopt=-Wno-unknown-warning-option --host\_cxxopt=-Wno-unknown-warning-option --cxxopt=-Wno-dangling-reference --host\_cxxopt=-Wno-dangling-reference --cxxopt=-Wno-unused-label --host\_cxxopt=-Wno-unused-label --cxxopt=-Wno-missing-requires --host\_cxxopt=-Wno-missing-requires --per\_file\_copt=external/.\*@-w --host\_per\_file\_copt=external/.\*@-w

ERROR: --enable\_bzlmod :: Unrecognized option: --enable\_bzlmod

(myenv) hemamalini@DESKTOP-GUBR09E:~/verible$ bazel --version

**Steps:**

1.check the bazel version, it’s outdated then install latest version

bazel —version

sudo apt install bazel

**2.** Disable the blzmod ,give below command and remove / put # before the line

nano /home/hemamalini/verible/.bazelrc

3. Run the below command

bazel build -c opt //...

Another method :

1. We try another method for fix that issue

sudo apt update

sudo apt install -y curl gnupg

curl -fsSL https://bazel.build/bazel-release.pub.gpg | gpg --dearmor > bazel-archive-keyring.gpg

sudo mv bazel-archive-keyring.gpg /usr/share/keyrings/

echo "deb [signed-by=/usr/share/keyrings/bazel-archive-keyring.gpg] https://storage.googleapis.com/bazel-apt stable jdk1.8" | sudo tee /etc/apt/sources.list.d/bazel.list

sudo apt update && sudo apt install -y bazel

We follow above all steps but still not fix that issue.We check the bazel —version in WSL Linux system is not show version, then follow above steps for fixing that error still not fix that error.