

Workbench

Virtual development board (simulation model)

HDL testbench

VirtualBoard_Top

Device component
models

Design_Top

Verification
components

Logging
Waveform dumping

HDL
module/component

Co-simulation interface

Virtual peripheral

Transport

Virtual peripheral

Virtual peripheral

Virtual peripheral

Concurrent software application

Backend

X11, Gtk, Qt...

HTTP(s)

gRPC, ZeroMQ...

Desktop window,
mouse, keyboard...

Web browser

Dynamic Binary
Modification

Unmodified binary
application

Remote/concurrent
application

JS/TS frontend