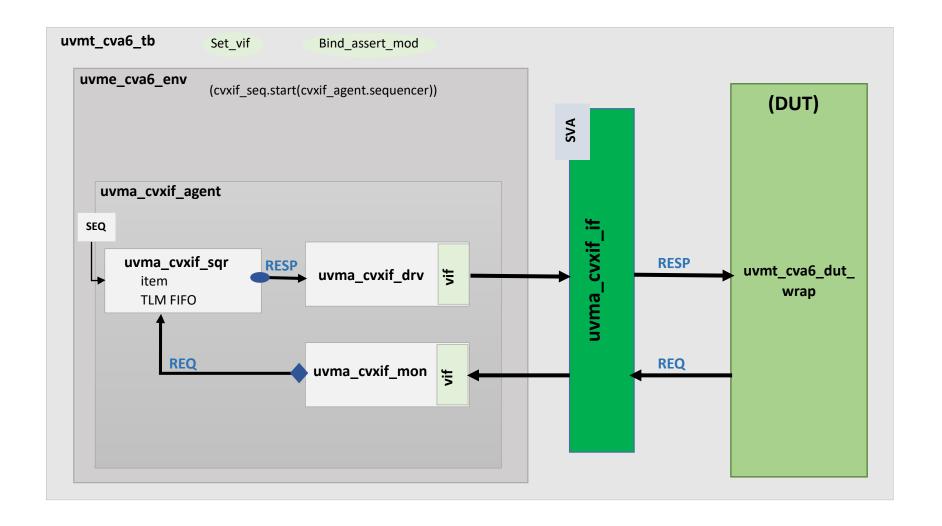
CVXIF Agent





Files Organization

```
lib/uvm agents/uvma cvxif/
    +----- docs/
   +----- bin/
   +----examples/
    +----- README.md/
   +----- src/
                                        //cvxif interface
              +---- uvma cvxif if.sv
              +----- uvma_cvxif_assert.sv //assertion module
              +---- instr pkg.sv
                                       //issue resp for each instruction
              +---- uvma_cvxif_pkg.sv
              +---- uvma_cvxif_pkg.flist
              +----- comps/
                       +----- uvma cvxif agent.sv //Agent
                       +----- uvma_cvxif_drv.sv //Driver
                       +----- uvma_cvxif_mon.sv //Monitor
                       +----- uvma_cvxif_sqr.sv //Sequencer
              +----obi/
              +----- seq/
                       +----- uvma_cvxif_base_seq.sv //Base Sequence
                       +----- uvma cvxif seq.sv
                                                  //Sequence
                       +----- uvma cvxif req item.sv //Sequence item1
                       +----- uvma_cvxif_resp_item.sv //Sequence_item2
```



First version of CVXIF Agent

The first version of the cvxif agent support:

- 3 interfaces (issue_interface, commit_interface and result_interface)
- accept 2 custom instructions (CUS-ADD, CUS-ADD-RS3)
- Fix delay to send result response
- Result response is in order
- Issue_ready signal is always 1
- 4 assertions in the assertion module

Coming versions will support:

- accept more than 2 custom instructions (CUS-ADD, CUS-ADD-RS3, CUS-ADD-MULTI, CUS-EXC ...)
- Synchronous Exception
- Random delay to send result response
- Issue_ready signal will be randomized
- More assertions in the assertion module
- Results in an out of order fashion



Question

Cvxif_pkg.sv is in the core directory, used by the RTL and also by the agent, is there a similar case in cv32, how is it managed?

