

VirtualDspinNetwork

1) Functional Description

It is composed of two [VirtualDspinArray](#) , one for command paquets and the other for response paquets.

2) Component definition & usage

[source:trunk/soclib/soclib/module/network_component/virtual_dspin_network/caba/metadata/virtual_dspin_network.sd?](#)

3) CABA implementation

CABA sources

- interface :
[source:trunk/soclib/soclib/module/network_component/virtual_dspin_network/caba/source/include/virtual_dspin_net](#)
- implementation :
[source:trunk/soclib/soclib/module/network_component/virtual_dspin_network/caba/source/src/virtual_dspin_network](#)

CABA Constructor parameters

```
VirtualDspinNetwork( sc_module_name insname,           // instance name
                    const soclib::common::MappingTable &mt, // mapping table
                    const soclib::common::IntTab &ringid,  // global subsystem index
                    const int &wrapper_fifo_depth,        // wrapper fifo depth
                    int nb_attached_initiator,             // number of VCI initiators
                    int nb_attached_target);              // number of VCI targets
```

CABA ports

- `sc_in<bool> p_clk;` *Global system clock*
- `sc_in<bool> p_resetn;` *Global system reset*
- `soclib::caba::DspinInput<vci_param> * p_in;` *Ports to VCI targets*
- `soclib::caba::DspinOutput<vci_param> * p_to_initiator;` *Ports to VCI initiators*

4) TLMT implementation

The TLM-T implementation is not available yet.