5/16/2023

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[personal]

RSim

Specification

# Revision History

2023/5/16:

- document created

# Overview

# Application

# Architecture

# Class Define

|  |  |
| --- | --- |
| Axi4Vip -> VipEnvBase | |
| fields | |
| -rh\_axi4\_agentBase agt |  |
| +rh\_axi4\_seqrBase vseqr |  |
| +rh\_axi4\_configBase config | config from interface, it will be set after call of setInterface |
| -rh\_axi4\_localConfig lc | it’s a local config used for VIP to setup components |
| +uvm\_analysis\_export reqP |  |
| +uvm\_analysis\_export rspP |  |
|  |  |
|  |  |
| APIs | |
| +setInterface(<string>) | * get interface according to path, use config\_db; * get config table in interface, assign to config field; |
| +setDeviceType(<enum>) | * lc.setDeviceType; |
| *+build\_phase(<phase>)* | * if lc.deviceIsActive, then create agt (<name>,this,<active>);   + else create agt(<name>,this,<passive>) * if lc.isMaster, then use rh\_axi4mst\_agt   + else use rh\_axi4slv\_agt * agt.setConfig(config) |
| *+connect\_phase(<phase>)* | * if lc.deviceIsActive, vseqr = agt.seqr * agt.mon. |
| Constructor | * super.new; * create lc; |
|  |  |
|  |  |

# SourceCode Implementation

codeWithIndention0

codeWithIndention1