

METHODOLOGY INDEPENDENT VIP DEVELOPMENT USING SV AND XXVM IN MIRAfra ODC

The Customer:

Worldwide leader in developing EDA tools, verification IPs and verification methodologies.

The Application:

Development of Methodology Independent MIPI based Universal Flash Storage (UFS) Client and Server Verification IPs. Depending upon specific customer requirement, the VIP could be wrapped around with the required methodology, either UVM or OVM or VMM.

MIPI UFS works on Client and Server Mode. The Client requests data in the form of Command; UFS binds the data in a UFS header and sends it to MIPI Transport UNIPRO layer. Server UFS unbinds the data, serves the command and responds back by rebinding the response data in UFS header and handing over to UNIPRO.

MiraFra's Responsibility:

- Architecting the Host and Device VIP cores.
- Development and ownership of most components in Host and Device VIP cores.
- Development of verification architecture using UVM methodology and test plan.
- Creation of test plan and coding of test cases using UVM methodology.
- Provide the fully-developed UVM sequences, test cases and VIP to client.
- Running regressions on twice a week mode.
- Understanding the client customer's requirements and tuning the VIP and its related UVM sequences and test cases.
- Detailed and extensive documentation for sequences, test cases and VIP usage.

Engagement Model:

A team of three engineers working from MiraFra in ODC model, interacting with two client engineers and one client CAE; based on Turnkey model.