

Key Benefits

- Find violations quickly—Built-in checker transaction table points to timing diagrams displayed in protocol specification
- Rapid analysis—Synchronized time stamp referenced debug links transaction table, waveforms and highlighted logs
- Simplified debug—Visual data payload analysis simplifies debug of deep datapath protocols

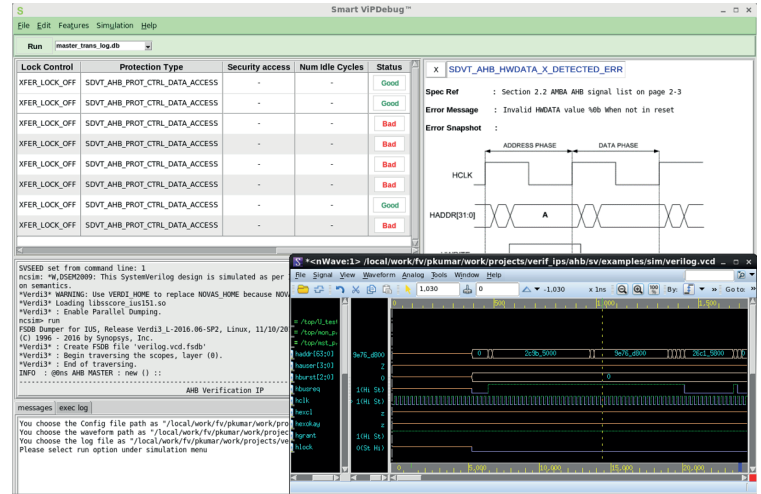
Product Features

- Streamlines and simplifies the protocol debugging process
- Compatible with all SmartDV Verification IP
- Reference waveforms from the protocol specification are brought up automatically in the debugger — no need for the user to be an expert in the specific protocol being verified
- Multiple views of protocol behavior through time stamp linked visualization of waveforms, transaction tables and logs
- Transaction tables are searchable and sortable for pinpointing specific types of transactions
- Error detect mode enables rapid identification of protocol violations
- Easier visual data payload analysis for debugging deep datapath protocols
- Intuitive user interface provides excellent visibility and traceability
- Supports all industry standard waveform viewers

SmartViPDebug™

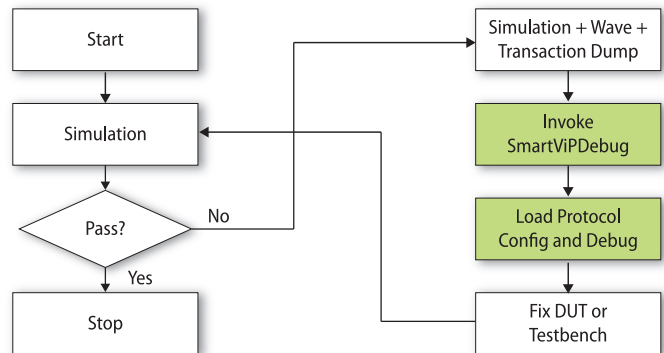
SmartViPDebug™ is used to debug and fix protocol violations detected during simulation. After a failed simulation, the transaction and waveform data is dumped and SmartViPDebug™ is invoked.

Violations can be rapidly highlighted and then analyzed using the time stamp linked waveforms, transaction tables and logs. Since the reference waveforms from the protocol specification are available, the user does not need to be an expert in the specific protocol being debugged.



General Use Model

SmartDV's SmartViPDebug™ streamlines and reduces protocol debug time by guiding the user through the process with visualizations that allow the rapid identification of violations. It works seamlessly with SmartDV's broad portfolio of Verification IP and is compatible with all common verification flows and methodologies. It is also compatible with waveform viewers available with other industry established verification platforms.



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