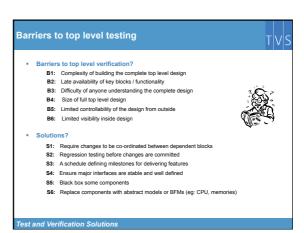
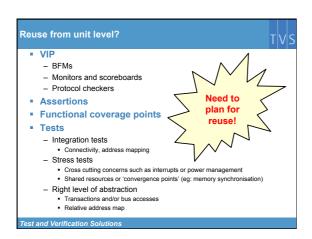
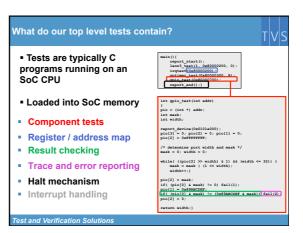
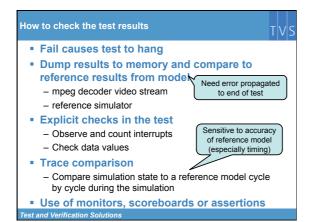


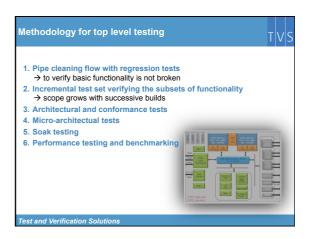
## Why bother doing unit level testing? ■ Controllability at top level v unit level? → REDUCED ■ Harder to hit corner case and longer run times ■ Visibility at top level v unit level? → REDUCED ■ Harder to debug fails ■ Overhead on testing at top level v unit level? → INCREASED ■ Need working top level integration before testing ■ Need to propagate block level fixes/changes to top level before they can be tested ■ Need to understand the complete SoC to test and debug a single block Test and Verification Solutions

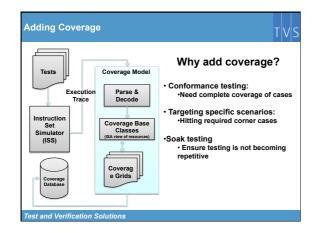


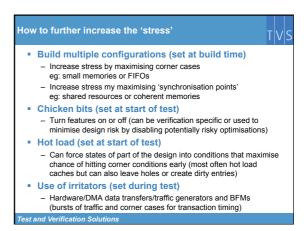




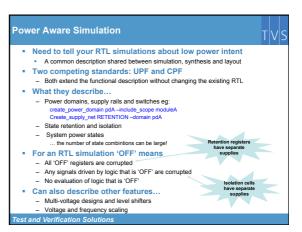


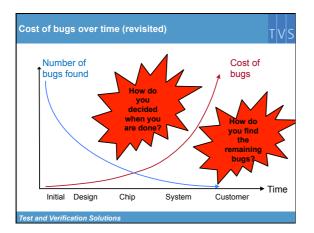














## Is block and top level verification sufficient? Is block level and top level verification sufficient? Verification of IP in System context Verifying correct operation with related IP Verification of complete systems (both HW and SW) Software conformance testing Soak testing Soak testing Soak testing at system level? Focus at system level is shared resources eg: coherent memory system Running irritator software in parallel on multiple threads or multiple CPUs (minimal OS) Switching CPUs (eg: swapping big/LITTLE) Virtualisation Test and Verification Solutions

