

Low Pin Count e Verification Component

Overview

The Low Pin Count(LPC) Interface Specification for legacy I/O has facilitated the industry's transition toward ISA-less systems. The LPC interface allows the legacy I/O motherboard components, typically integrated in a Super I/O chip, to migrate from the ISA-bus to the LPC interface, while retaining the full software compatibility.

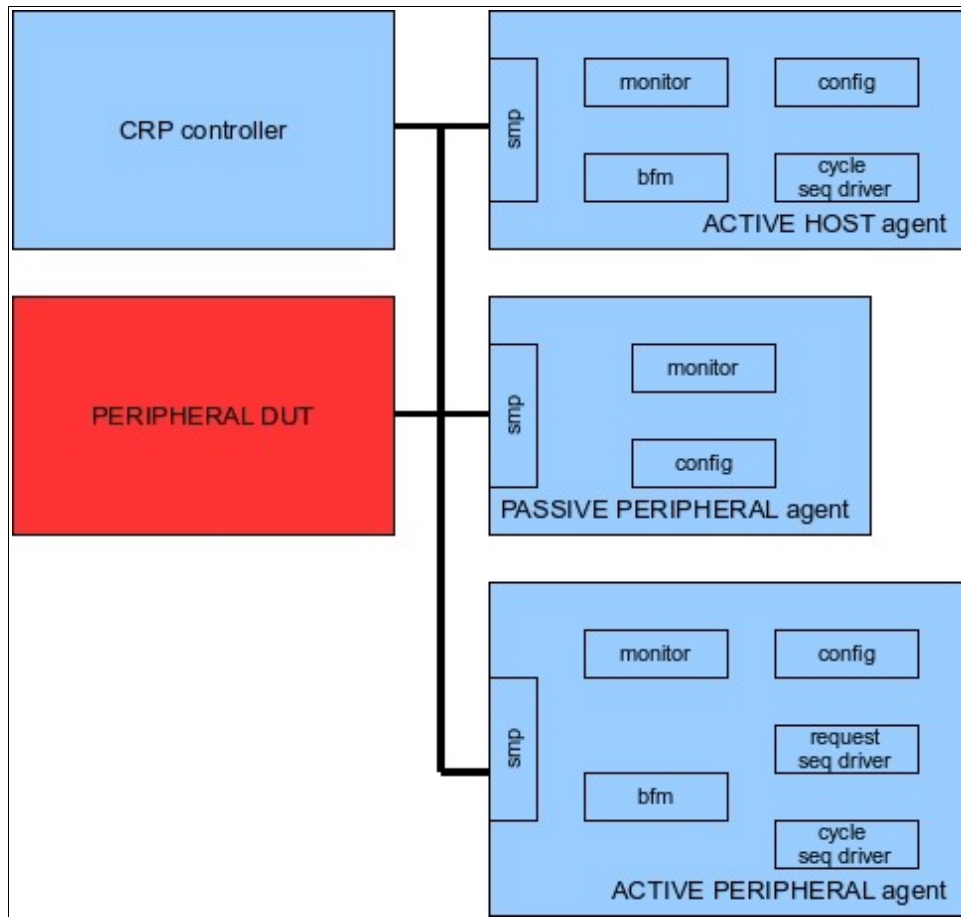
Providing RTL developers with verification IPs, NoBug Consulting helps to increase productivity, cut costs and speed development cycle of an ever growing demand in verification services. NoBug's LPC *eVC* is a ready-made, highly configurable *e* verification component(*eVC*) suitable for any DUT(device under test) that contains a LPC interface.

All *eVC* behavior is compliant with LPC Interface Specification, Revision 1.1.

Features

- *eRM* compliant
- supports both Host and Peripheral functionality
- supports all LPC bus cycles: Memory, Firmware Memory, I/O, DMA, Bus Master
- configuration(per device) of supported cycle types
- configurable(per peripheral) number (and index) of DMA channels
- configurable wait states and number of inserted wait states
- clock, reset and power controller
- errors insertion and detection(invalid START, invalid cycle type, invalid size, invalid DMA channel, unaligned address, invalid SYNC, invalid wait state, SYNC timeout, illegal response, abort)
- full control over the generated cycles and requests using sequences and sequence drivers
- assembly of collected data into structures using built-in monitors
- functional coverage
- protocol checker
- simulator and HDL independent

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Verification environment topology for a peripheral DUT(block level)

Deliverables

- Documentation(usage guide, eDoc, release notes)
- e sources
- Example test cases
- Shell script for a quick demo

About Nobug

NoBug(www.nobug.ro) is an expert digital design verification company that masters a full range of technologies (functional, formal, assertion-based) with a variety of tools. Our goal is to establish strategic alliances designed to help deliver a customer-centric, total solutions approach to solving problems, exploiting business opportunities and creating sustainable competitive advantage for the customers.