

AMBA AXI/AHB/APB Bus and System Design and Verification

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Target audience and prerequisites

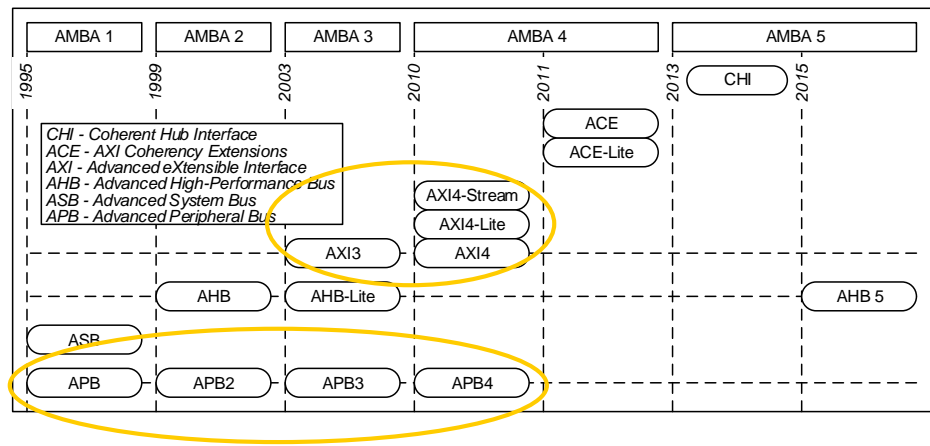
❑ Target audience

- ◆ This lecture is prepared for engineers and students who are interested in developing IP based on AMBA AXI, AHB and APB.

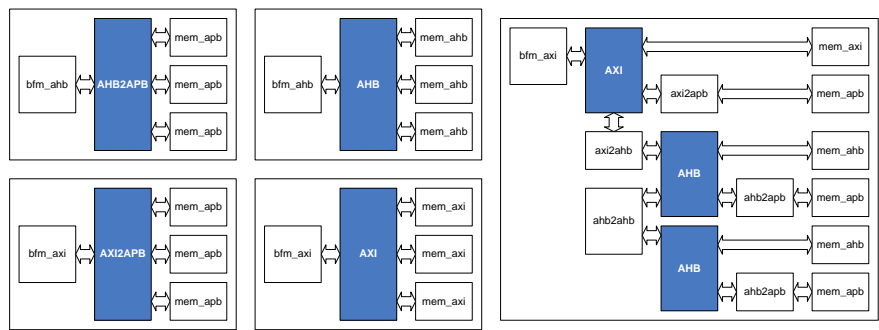
❑ Prerequisites

- ◆ Basic knowledge of digital logic design
- ◆ Basic knowledge of the Verilog HDL language
- ◆ Basic knowledge of the C language
- ◆ Experience with industry standard HDL simulator such as ModelSim
- ◆ Experience with FPGA such as Xilinx and its development environment, i.e., ISE
- ◆ Experience with industry standard C compilation tool-chain such as Visual Studio and GNU GCC
- ◆ Experience with industry standard Operating Systems and text editor such as Windows/Linux and Vi/Vim.

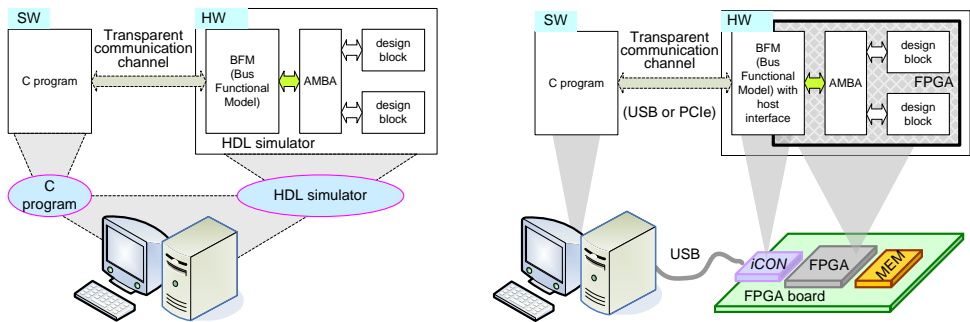
AMBA Bus



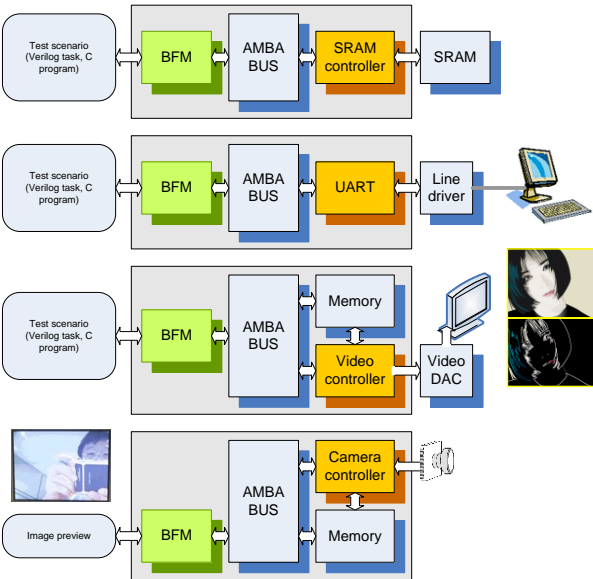
AMBA



BFM with HW/SW Co-Simulation



Bus-based example designs



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