

Lab5 Intro

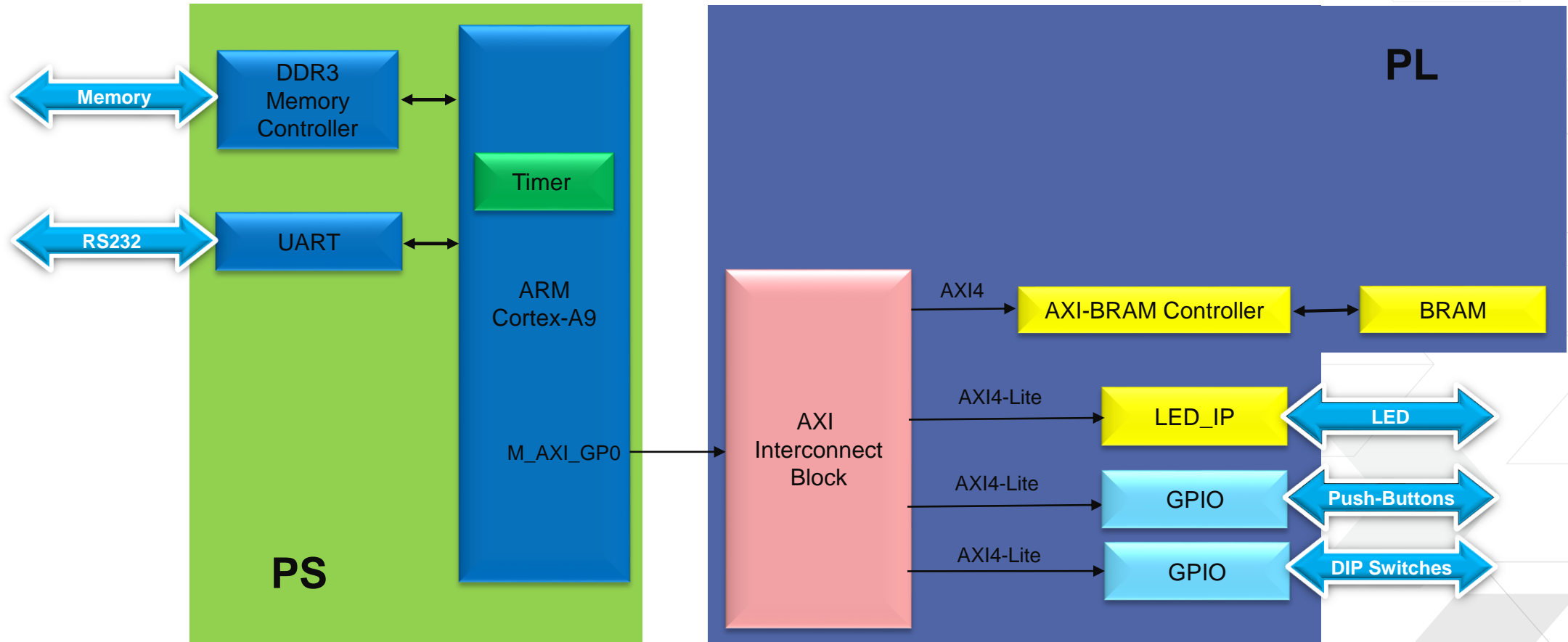
Software Writing for Timer and Debugging



Introduction

- > This lab guides you through the process of writing a software application that utilizes the private timer of the CPU.
- > You will refer to the timer's API in SDK to create and debug the software application.
- > The application you will develop will monitor the dip switches settings and increment the count on LED.
- > The application will exit when the center push button is pressed.

Lab5: Utilize system timer and perform software debugging



Procedure

- > **Open the project in Vivado**
- > **Create an SDK Software Project**
- > **Verify Operation in Hardware**
- > **Launch Debugger**



Summary

- > This lab led you through developing software that utilized the CPU's private timer.
- > You studied the API documentation, used the appropriate function calls and achieved the desired functionality.
- > You verified the functionality in hardware. Additionally, you used the SDK debugger to view the content of variables and memory, and stepped through various part of the code.