MAX32600 Pulse Train Blink Demonstration

April 3, 2015

1 Abstract

This document describes the BlinkyPT sample application provided for the MAX32600. This application demonstrates how to setup a square wave pulse train on a GPIOs (P1.6) to blink an LED, using the provided firmware APIs.

2 Requirements

- MAX32600B EvKit
- Sample code for this application located in `Firmware/Applications/BlinkyPT`
- Olimex JTAG ARM-USB-TINY-H
- GNU ARM toolchain with newlib libc
- Optional: An oscilloscope for viewing the GPIO output signal.

3 Setup

- Load the compiled max32600.elf file onto the MAX32600 EvKit.

4 Observation

- The green LED should blink with a 1HZ rate, %50 duty cycle.

5 Source Code Overview

5.1 Drivers In Use

- Instruction Cache
- Clock Manager
- Power Manager
- GPIO
- PT (Pulse Train)

5.2 Interrupts Enabled

None

5.3 Code Operation

- Enable Instruction Cache
- Setup Clocks; system clock, systick and pulse train clock
- Initialize the pulse train module
- Set GPIO for pulse train output
- Start pulse train signal