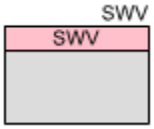
Serial Wire Viewer

1.0

Features

- printf() output to SWV pin on PSoC3 or PSoC5LP



General Description

The Serial Wire Viewer (SWV) component re-maps the printf() output on PSoC3 (C51) and PSoC5LP (gcc) to output over the SWV pin (P1[3]). If this pin is connected to the proper input of the Miniprog3, then a separate PC application can be used to display the printf() data on a console output.
Note – the SWV data clock speed is currently set in code at 6 MHz. The input clock for this is Bus Clk / 2 divided by an integer value. Therefore, if Bus Clk is set so that Bus Clk / 2 is a non integer multiple of the SWV data clock (6 MHz), a warning will result.

NOTE: This component is not an “official” component and is for demo purposes only.

Input/Output Connections

There are no I/O connections for the Serial Wire Viewer component. It is an API only. However, the Serial Wire Viewer component outputs data on P1[3].

Component Parameters

The Serial Wire Viewer has no configurable parameters other than standard Instance Name and Built-in parameters.

Application Programming Interface

By default, PSoC Creator assigns the instance name “SWV_1” to the first instance of a component in a given design. You can rename it to any unique value that follows the syntactic rules for identifiers. The instance name becomes the prefix of every global function name, variable, and constant symbol. For readability, the instance name used in the following table is “SWV.”

void SWV_Start(void)

Description: Configures SWV for serial console output.
Parameters: None
Return Value: None
Side Effects: None