CS 350 Emerging Systems Architectures & Technologies

3-2 Milestone Two Submission

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Answers to the questions from the Milestone Two UART GPIO Lab Guide:

1. How does the macro UART\_DATA\_BINARY impact the UART?

The UART\_DATA\_BINARY macro configures the UART to transmit raw binary data without converting it to ASCII. This allows for sending non-text data like binary files directly over the UART interface.

1. How does the macro UART\_RETURN\_FULL impact the UART?

The UART\_RETURN\_FULL macro configures the UART to return all received data, including the full message, before making any decisions or processing, ensuring the entire input is available before responding.

1. What driver call would you use to write 10 characters out of the UART?

The driver call UART2\_write() should be used with the buffer containing the 10 characters you wish to send. This function sends the characters over the UART interface.

\*UART2\_write(uartHandle, buffer, 10, &bytesWritten);

1. What is the driver call to turn off LED 0?

Use GPIO\_write(CONFIG\_GPIO\_LED\_0, CONFIG\_GPIO\_LED\_OFF) to turn off LED 0.

1. What is the UART baud rate?

The baud rate is set to **115200** in your code (via uartParams.baudRate = 115200).