CS-350-T3346 Emerging Systems Architectures & Technologies

3-2 Milestone

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* **How does the macro UART\_DATA\_BINARY impact the UART?**

The UART\_DATA\_BINARY is used for the data modes for reading and writing data to the UART interface. It impacts UART because it affects how data is processed, UART\_DATA\_BINARY the data is passed as it is without any processing. UART\_DATA\_TEXT the driver will look to the return mode to determine the course of action to take when a new line is received. So, if more than one byte of data was being read or written it could greatly impact how the data is interpreted.

* **How does the macro UART\_RETURN\_FULL impact the UART?**

The UART\_RETURN\_FULL unblocks or executes a callback whenever the read buffer is full. This impacts UART because it controls what happens when the buffer is full. For writing data the data is sent as it is, if this wasn’t implemented it could result in data loss.

* **What driver call would you use to write 10 characters out of the UART?** UART\_read(uart, &input, 10)

This command will read 10 bytes/character from the UART interface into a variable called input.

* **What is the driver call to turn off LED 0?**GPIO\_write(CONFIG\_GPIO\_LED\_0, CONFIG\_GPIO\_LED\_OFF);
* **What is the UART baud rate?**

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