

CMPE-250 Assembly and Embedded Programming

Laboratory Exercise 6

Polled Serial I/O

By submitting this report, I attest that its contents are wholly my individual writing about this exercise and that they reflect the submitted code. I further acknowledge that permitted collaboration for this exercise consists only of discussions of concepts with course staff and fellow students. Other than code provided by the instructor for this exercise, all code was developed by me.

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Results

A screen capture of the serial terminal was taken.

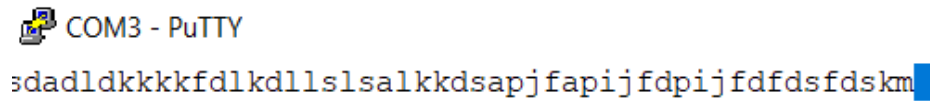


Figure 1: Terminal screen capture

Figure 1 shows the terminal output from the embedded device. To test that the input/output was functional, many random keys were pressed.

Question

The program listing and map files were used to determine the start and end addresses of various sections.

Table 1: Code section offsets and endings.

Section	Start	End
MyCode AREA	0x100	0x200
Executable code in MyCode AREA	0x100	0x1A6
Main program	0x100	0x114
PutChar	0x116	0x128
GetChar	0x128	0x13A

All of the code sections shown in Table 1 with the exception of the MyCode AREA section was found using the listing file. The listing file shows the offset of each instruction from the start of the code section (listed in the map file).