

Questions and tasks in Lecture 11

Task 11-1: Write a program that reads a null-terminated text from a byte table in the flash memory (inserted with `.DB "This is a text.", 0`) to the beginning of the SRAM.

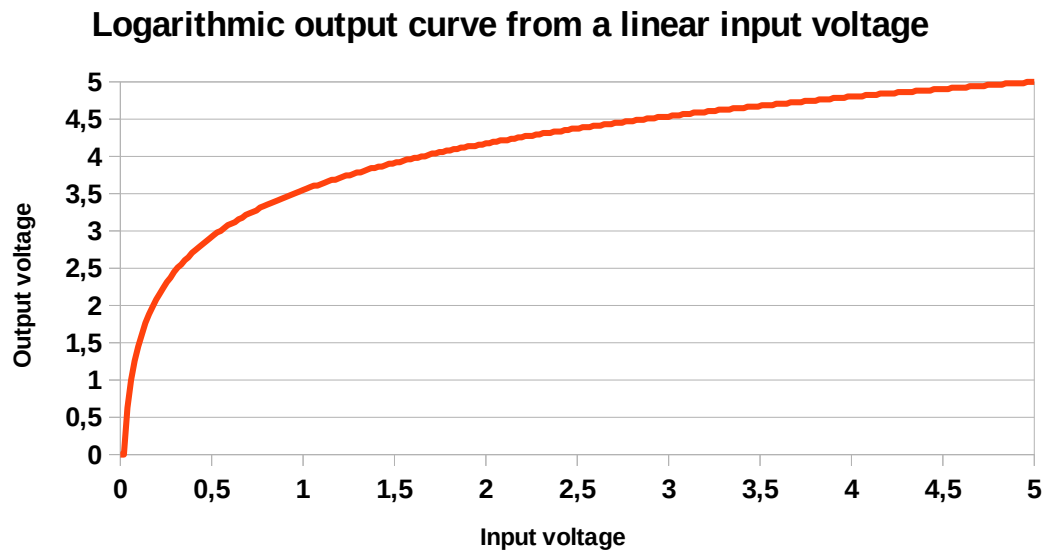
Bonus Task 11-1: Write the text backwards to the SRAM. Try different methods and find out which is the most elegant.

Bonus question: How long can the text be in an ATtiny24, in an ATtiny44 and in an ATtiny84 (how many characters)?

Questions and tasks in Lecture 11 - Continued

Task 11-2: Write a program that continuously

- reads an analog voltage byte-wise (with ADLAR!) every 10 ms (use DATE and a timer to start conversion, use the ADCC interrupt and the T flag),
- converts this to its logarithm with a byte-wise table, and



- writes that value to an 8-bit PWM at 100 Hz to convert it back into a voltage.

Questions and tasks in Lecture 11 - Continued

Task 11-3: Write a program that converts 32-bit binaries to decimal in the SRAM and blanks leading zeros.