

Questions and tasks in Lecture 10

Task 10-1: Write a program that sets and then adds and subtracts two 24-bit numbers.

Bonus question: How many registers would a 64-by-64 bit addition need and what would be the largest numbers than can so be added/subtracted? Can all living individuals in the world be tagged with a unique 64 bit number? Who would then get number 0 in your view?

Questions and tasks in Lecture 10 - Continued

Task 10-2: Write a program that sets and then multiplies two 16-bit numbers.

Bonus question: How many registers would be needed to multiply two 64-bit numbers? Can that be handled in the 32 registers in AVR?

Questions and tasks in Lecture 10 - Continued

Task 10-3: Convert the number 12,345,678 from binary to decimal with leading-zero-blanking.