Johannes Kepler University Linz

LIT – Secure and Correct Systems Lab S. Rass · S. Ahmad · M. Schwaighofer · K. Feichtinger · D. Zaitsev PR Systems Programming WS 2022 Class dates: see KUSSS

Excercise Sheet 1

Exercise 1.1. Determine the correct data types of the following expressions:

- a) 'x'
- b) '\033'
- c) 0.123456f
- d) 512UL
- e) 0x10F
- f) 2e+10
- g) 1.2345678
- h) 0101
- i) 0xaL

Exercise 1.2. Write the following macro definitions:

- a macro EULER_E that defines Euler's constant 2.718281828
- a macro LF that stands for line-feed, i.e., the '\n' character
- a macro ALERT that emits a beep by calling putchar() with argument '\a' (char code 7)
- a macro DOUBLE that multiplies its input value by 2 and returns the result
- Correct the definition of the following two macros, and put them into your file as well:
 - #define MIN(a,b)((a)>= (b))? (a): (b)
 - #define Area(a,b)a*b
 - #define FIRST = 1

Put all your definitions into a . h-file and make sure that including it twice can be done without a compiler error.