General Remarks for the SLP Computer Exercises

- You need a login for the computer-science CIP pool to take part in exercise course. If you do not have a login, one can be created via `https://account.cip.cs.fau.de`.
- Anyone, who registered for the exercises via Waffel, receives a project directory `/proj/i4spic/<login>/`, where `<login>` is a placeholder for your login name. A registration in the system is therefore mandatory to work on the assignments! The project directory is automatically integrated in the SPiC-IDE.
- The structure of the directory for the assignments has to be organized as follows:
  `/proj/i4spic/<login>/aufgabe1`
  `/proj/i4spic/<login>/aufgabe2`
  ...
- The assignments have to be submitted in the SPiC-IDE not later than the deadline.
  Alternatively, they can be submitted via
  `/proj/i4spic/bin/submit aufgabeX`
  (with `X = 1 ... n`). This script copies the files required by the assignment description from the corresponding directory. Before the deadline, any program can be submitted an arbitrary number of times – the most recently submitted version will then be graded after the deadline.
- To check the last (and therefore valid) submission, the SPiC-IDE can be used or via
  `/proj/i4spic/bin/show-submission aufgabeX`
  you can view the last submitted program. To only view differences between the last submission and the current status in the project directory, the option `-d` can be added.
  `/proj/i4spic/bin/show-submission -d aufgabeX`
- The latest date for submission can be seen in the SPiC-IDE or with the call of:
  `/proj/i4spic/bin/get-deadline aufgabeX`
- Grading of a program submitted after the deadline can only be done in **well reasoned and exceptional cases**. You need to address the tutor directly who will then decide individually. An earlier submission before the deadline is *not* overwritten by a late submission. If in doubt, the first one is therefore graded.
- This term, the SPiCsim as well as the SPiCboard serves as a reference for the correction of the assignments. Please make sure that your solution behaves on earch of the platforms exactly as required by the assignment description.
- If not specified further, you need to use the same name for the C source file as the title of the assignment is called. I.e., if the assignment is called *blink*, the program should be created as `blink.c`.
- Further information can be found online:
  `https://sys.cs.fau.de/lehre/ss25/spic/`
- The documentation of the `libspicboard` can also be found there:
  `https://sys.cs.fau.de/lehre/ss25/spic/uebung/spicboard/libapi`

SLP-assignment #3.4: counter

(6 points, no groups)

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1. .
2. .
3.

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```
static void wait(void);
```

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```
static void show_number(uint16_t num);
```

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Hints:

- Always give a reason why you use the `volatile` keyword. If the same reasoning holds for multiple variables, you can justify them together.
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Deadline

Use script in CIP pools: `/proj/i4spic/bin/get-deadline aufgabe3.4 Txx`