Checkpoint of the project status

- **Group:** C
- **Project title:** uKernel

Project description

A tick-based micro kernel for the Arduino Uno. The kernel supports preemption, sleeping, and mutexes with priority inheritance.

Project status

We consider the project to be finished, with the exception of the report.

We currently have a micro-kernel that supports **preemption**, task **sleeping**, and **mutexes** with **priority inheritance**, as was planned. We've also implemented other things like: optional stack canaries, optional trace functions, state assertions, and a failure state.
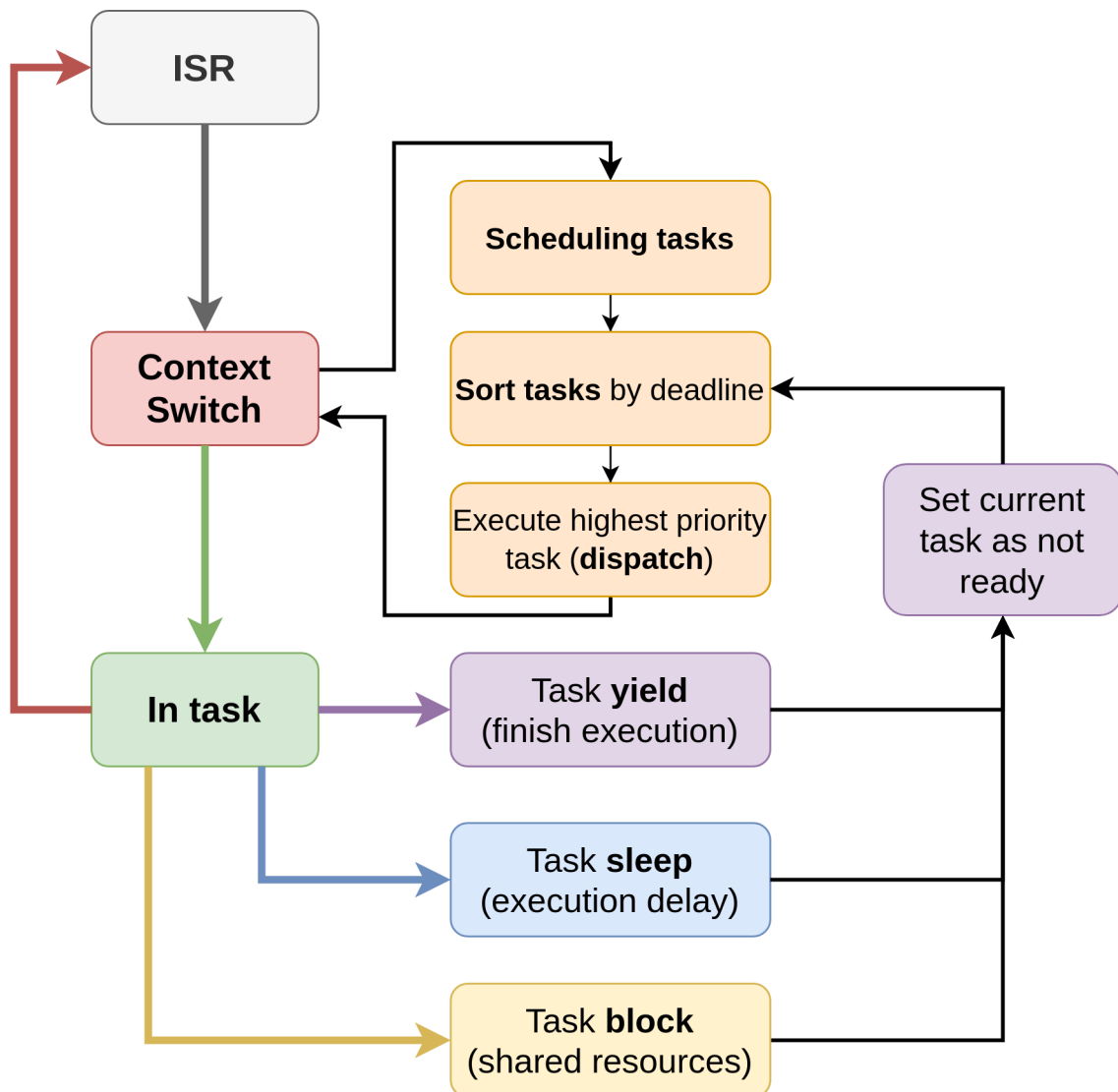
Project architecture

Figure 1: Project architecture