Live Embedded Event schedule published, 5 talks from Bootlin[2]

The schedule for the next edition of Live Embedded Event has been published! This 100% online and free conference will take place on June 3rd, 2021. Thanks to the proposals received, the event will feature 4 tracks during the entire day, covering a wide range of topics: hardware for embedded systems, embedded Linux, RTOS, IoT, FPGA, RISC-V, and more.

From build-dir to venv? testing Python packages in Gentoo[3]

A lot of Python packages assume that their tests will be run after installing the package. This is quite a reasonable assumption if you take that the tests are primarily run in dedicated testing environments such as CI deployments or test runners such as tox. However, this does not necessarily fit the Gentoo packaging model where packages are installed system-wide, and the tests are run between compile and install phases.

In great many cases, things work out of the box (because the modules are found relatively to the current directory), or require only minimal PYTHONPATH adjustments. In others, we found it necessary to put a varying amount of effort to create a local installation of the package that is suitable for testing.

In this post, I would like to shortly explore the various solutions to the problem we’ve used over the years, from simple uses of build directory to the newest ideas based on virtual environments.
Based on press reports and government statements, Microsoft would help farmers with post-harvest management solutions by building a collaborative platform and capturing agriculture datasets such as crop yields, weather data, market demand and prices. In turn, this would create a farmer interface for "smart" agriculture, including post-harvest management and distribution.

CropData will be granted access to a government database of 50 million farmers and their land records. As the database is developed, it will include farmers' personal details, profile of land held (cadastral maps, farm size, land titles, local climatic and geographical conditions), production details (crops grown, production history, input history, quality of output, machinery in possession) and financial details (input costs, average return, credit history).