

# OSS Leftovers

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- [First results of the ROSIN project: Robotics Open-Source Software for Industry](#) [2]

Open-Source Software for robots is a de-facto standard in academia, and its advantages can benefit industrial applications as well. The worldwide ROS-Industrial initiative has been using ROS, the Robot Operating System, to this end.

In order to consolidate Europe's expertise in advanced manufacturing, the H2020 project ROSIN supports EU's strong role within ROS-Industrial. It will achieve this goal through three main actions on ROS: ensuring industrial-grade software quality; promoting new business-relevant applications through so-called Focused Technical Projects (FTPs); supporting educational activities for students and industry professionals on the one side conducting ROS-I trainings as well as and MOOCs and on the other hand by supporting education at third parties via Education Projects (EPs).

- [Baidu To Launch World's First Intelligent Vehicle Infrastructure Cooperative Systems Open Source Solution By End Of 2018](#) [3]

Baidu Inc. has announced it will launch the Apollo Intelligent Vehicle Infrastructure Cooperative Systems (IVICS) open-source solution by the end of 2018, leveraging its capabilities in autonomous driving to bring together intelligent vehicles and infrastructure to form a "human-vehicle-roadway" interplay - an important step toward developing future intelligent transportation.

- [Versity Open Sources Next Generation Archiving Filesystem](#) [4]

The ScoutFS project was started in 2016 to address the rapidly growing demand for larger POSIX namespaces and faster metadata processing. The design goal for ScoutFS includes the ability to store up to one trillion files in a single namespace by efficiently distributing metadata handling across a scale out cluster of commodity compute nodes.

- [Moving from Wordpress \[5\]](#)

- [Epic Clock Clocks The Unix Epoch \[6\]](#)

Admit it: when you first heard of the concept of the Unix Epoch, you sat down with a calculator to see when exactly  $2^{31}-1$  seconds would be from midnight UTC on January 1, 1970. Personally, I did that math right around the time my company hired contractors to put "Y2K Suspect" stickers on every piece of equipment that looked like it might have a computer in it, so the fact that the big day would come sometime in 2038 was both comforting and terrifying.

[Forklift] is similarly entranced by the idea of the Unix Epoch and built a clock to display it, at least for the next 20 years or so. Accommodating the eventual maximum value of 2,147,483,647, plus the more practical ISO-8601 format, required a few more digits than the usual clock's sixteen to be exact. The blue seven-segment displays make an impression in the sleek wooden case, about which there is sadly no detail in the build log. But the internals are well documented, and include a GPS module and an RTC. The clock parses the NMEA time string from the satellites and syncs the RTC. There's a brief video below of the clock in action.

- [3 top Python libraries for data science \[7\]](#)

Python's many attractions—such as efficiency, code readability, and speed—have made it the go-to programming language for data science enthusiasts. Python is usually the preferred choice for data scientists and machine learning experts who want to escalate the functionalities of their applications. (For example, Andrey Bulezyuk used the Python programming language to create an amazing machine learning application.)

Because of its extensive usage, Python has a huge number of libraries that make it easier for data scientists to complete complicated tasks without many coding hassles. Here are the top 3 Python libraries for data science; check them out if you want to kickstart your career in the field.

- [PortableCL 1.2 Still Coming While POCL 1.3 Will Further Improve Open-Source OpenCL \[8\]](#)

It's been a number of months since last having any major news to report on POCL, the "PortableCL" project providing a portable OpenCL/compute implementation that can run on CPUs, select GPUs, and other accelerators.

POCL 1.1 from March remains the current stable release while POCL 1.2 has been in the release candidate stage. The POCL 1.2 release candidates began last month with a few highlights like LLVM 7.0 support, device-side printf support, and HWLOC 2.0 library support.

## OSS

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- [1] <http://www.tuxmachines.org/taxonomy/term/72>
- [2] <https://robohub.org/first-results-of-robin-project-robotics-open-source-software-for-industry/>
- [3] <http://www.aftermarketnews.com/baidu-to-launch-worlds-first-intelligent-vehicle-infrastructure-cooperative-systems-open-source-solution-by-end-of-2018/>
- [4] <https://insidehpc.com/2018/09/versity-open-sources-next-generation-archiving-filesystem/>
- [5] <https://csoriano.pages.gitlab.gnome.org/csoriano-blog/post/moving-from-wordpress/>
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