

openSUSE on Embedded Platforms

A General Purpose OS

Synergy with a large developer community using PCs allows you to use the same tooling no matter whether building from PCs, mainframes or ARM boards. The system is fully self-hosting; all components can be used to re-compile themselves.

openQA

openQA's thorough automated testing ensures confidence in a functional installation and boot process, desktop environment, important applications, and even physical hardware.



Federation with the reference instance of the Open Build Service allows you to build customized OS components in-house while pulling from upstream openSUSE to provide a base. Small, standardized building blocks can be reassembled in custom ways to produce custom appliances, containers, virtual machines, etc. Ports to ARMv7 and AArch64 exist, and new architectures are easy to add thanks to the universal build scripts.

ZYpp

Thanks to ZYpp's modern package management, both the OS and the apps are updated simultaneously using the world's most powerful libraries to ensure that every transaction is perfect. Per-package tags for bug fixes, security fixes, and updates requiring reboots to take effect give you the power to choose your system updates. ZYpp can also perform atomic updates, allowing you to minimize downtime and ensure that every update is always applied perfectly, even in the face of power outages.

Snapper & Btrfs

Thanks to Btrfs' copy-on-write and deduplication, Snapper snapshots are cheap on disk space without compromising on features. Tight integration into the base system allows rollbacks in case of any problems right from the boot screen.

Contributing

openSUSE's distros are open source projects under the terms of GPLv2. Contributing to the openSUSE Project is a no-nonsense process that only requires skills, not extraneous extras like a CLA.

Learn more at  openSUSE.org