ELBE: automated building of Ubuntu images for a Raspberry Pi 3B

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Typical embedded Linux systems include a wide number of software components, which all need to be compiled and integrated together. Two main approaches are used in the industry to integrate such embedded Linux systems: build systems such as Yocto/OpenEmbedded, Buildroot or OpenWrt, and binary distributions such as Debian, Ubuntu or Fedora. Of course, both options have their own advantages and drawbacks.

One of the benefits of using standard binary distributions such as Debian or Ubuntu is their widespread use, their serious and long-term security maintenance and their large number of packages. However, they often lack appropriate tools to automate the process of creating a complete Linux system image that combines existing binary packages and custom packages.

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