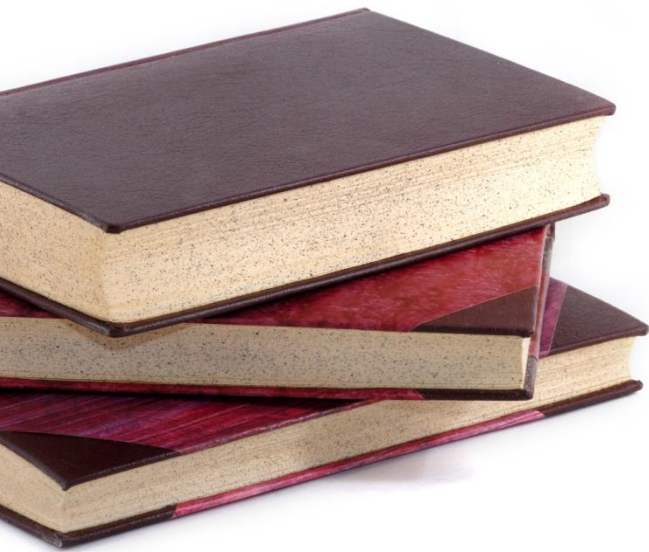




Final Examen



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05 februarie 2017

- Optimize boot time & size for a Yocto Project Linux distribution
 - Reduce busybox functionalities support.
 - Minimize u-boot support and boot time.
 - Use system and system-services support not other init options
 - Minimize Linux kernel configuration. Load modules in rootfs.
 - Configure kernel to not reinitialize time counting.
 - Enable wayland and disable X11 support.
 - Resulting output should be able to run a graphical application similar to glxgears.
 - Boot time required under 10 sec. Target machine: qemuarm
 - Use case: boot the target and check the time at which glxgears appears.
 - Bonus: Create init-graphics app which is executed at system initialization, launches the graphical application and prints the exact time at which the graphics started.

- 1. Angstrom is:
 - a. A build engine
 - b. A build system
 - c. A proprietary provided toolchain
- 2. EGCS is responsible for:
 - a. Merging early GCC forks with great success
 - b. The existence of FSF
 - c. Developing the first libc implementation on Linux
- 3. LAVA means:
 - a. Linux Automation and Virtualization Architecture
 - b. Linaro Architecture for Validation and Automation
 - c. Linaro Automation and Validation Architecture
- 4. ADT represents:
 - a. The Eclipse IDE support
 - b. The application development toolchain
 - c. The application development toolkit
- 5. Autobuilder represents:
 - a. Public QA and testing build interface
 - b. Web based Yocto Project interface
 - c. Graphical interface for the Yocto Project
- 6. Pykickstarter is part of:
 - a. Swabber
 - b. Wic
 - c. Matchbox
- 7. Hackbench is:
 - a. A testing framework for NFV support
 - b. A security toolkit used for binary analysis
 - c. A program part of Linux Real-Time Benchmark Framework
- 8. Which element is a LSM:
 - a. DAC
 - b. RealFeel
 - c. TOMOYO
- 9. OpenFlow is a mechanism used for:
 - a. Information security
 - b. Communication between the SDN defined planes
 - c. NFS standard compliance
- 10. CGL reference layer in Yocto Project is:
 - a. meta-cgl
 - b. meta-cgl-demo
 - c. meta-cgl-common

1. Describe what is poky
2. Describe autotools and its components
3. Describe Qemu and its role in the Yocto Project
4. Describe Yocto Project profiling and tracing tools
5. Describe the devtool add workflow
6. Describe LAVA architecture
7. Describe what the PREEMPT_RT transformation process add to the Linux kernel
8. Describe pax-utils package
9. Describe why SDN and NFV represent a good idea
10. Describe Yocto Project AGL features

