

RISC-V Server Platform Compliance Test Suite(CTS) Proposal

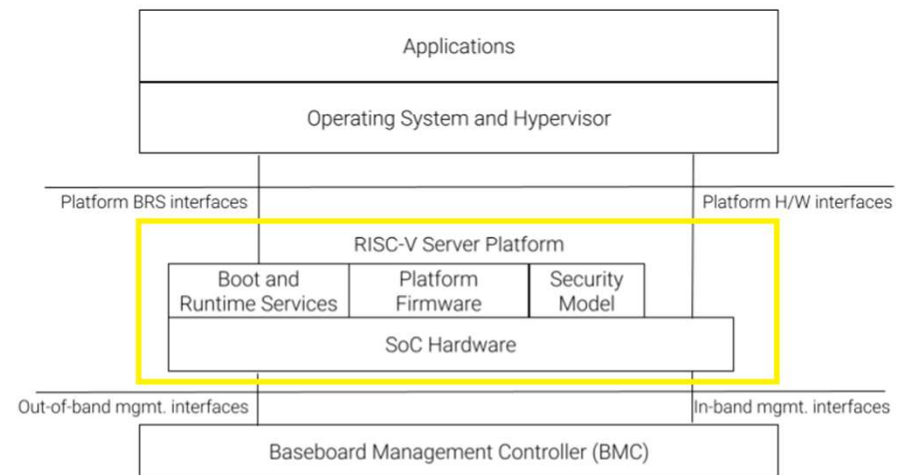
Dec 7, 2023

Intel RISC-V SW Team



Background

- <https://lists.riscv.org/g/tech-server-platform>
- The Server Platform Task Group shall define a specification for a standardized set of hardware and software capabilities, that portable system software (such as operating systems and hypervisors) can rely on being present in a RISC-V server platform.
- <https://github.com/riscv-non-isa/riscv-server-platform>



Components of a RISC-V Server Platform

Goal

Proposal a RISC-V Server Platform Compliant Test Suite to verify and certify that implementations are following related RISC-V Server Platform standards.

ARM SystemReady ACS - SR

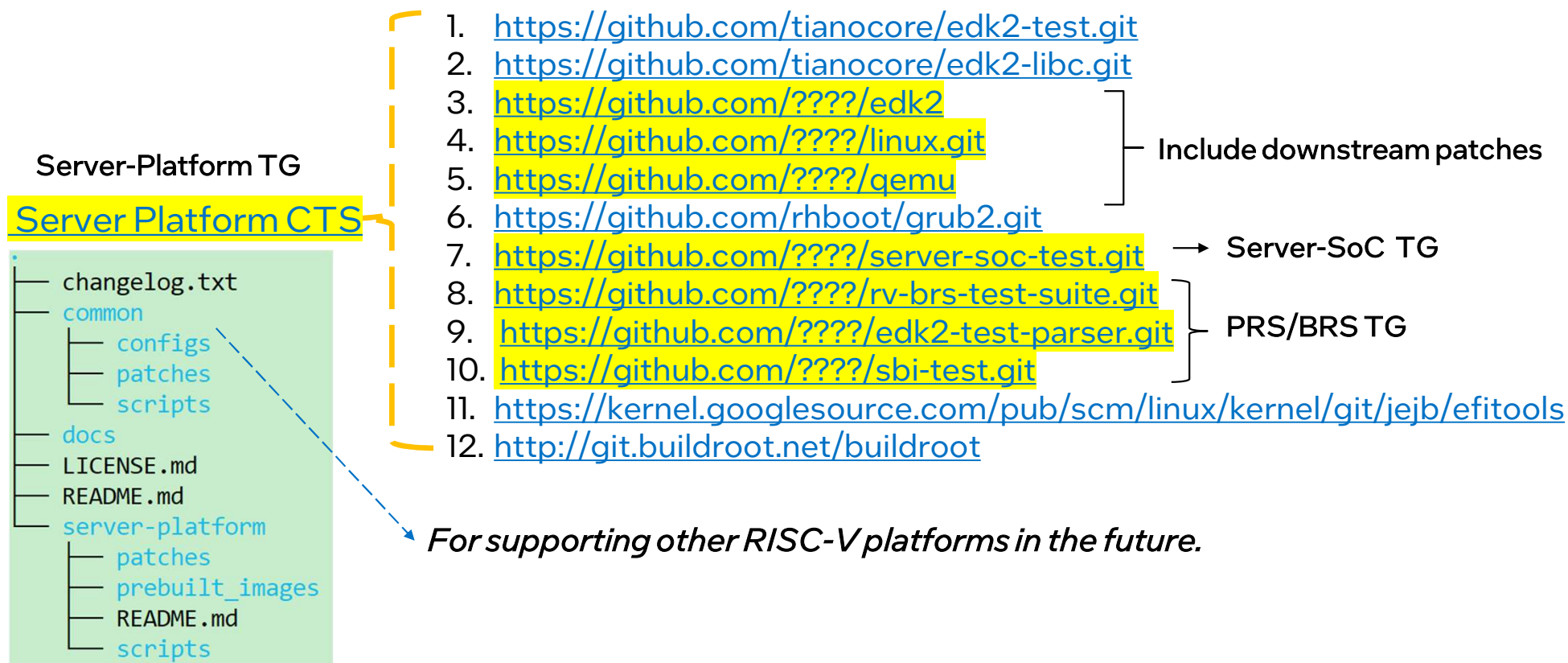
ES
IR
LS
SIE
SR
common

1. <https://github.com/tianocore/edk2.git>
2. <https://github.com/tianocore/edk2-libc>
3. <https://github.com/tianocore/edk2-test>
4. <https://github.com/torvalds/linux.git>
5. <https://github.com/rhboot/grub2.git>
6. <https://gitlab.arm.com/linux-arm/linux-acs>
7. <https://github.com/ARM-software/bsa-acs.git>
8. <https://github.com/ARM-software/sbsa-acs.git>
9. <https://github.com/ARM-software/bbr-acs.git>
10. <https://git.gitlab.arm.com/systemready/edk2-test-parser.git>
11. <https://kernel.googlesource.com/pub/scm/linux/kernel/git/jejb/efitools>
12. <http://git.buildroot.net/buildroot>

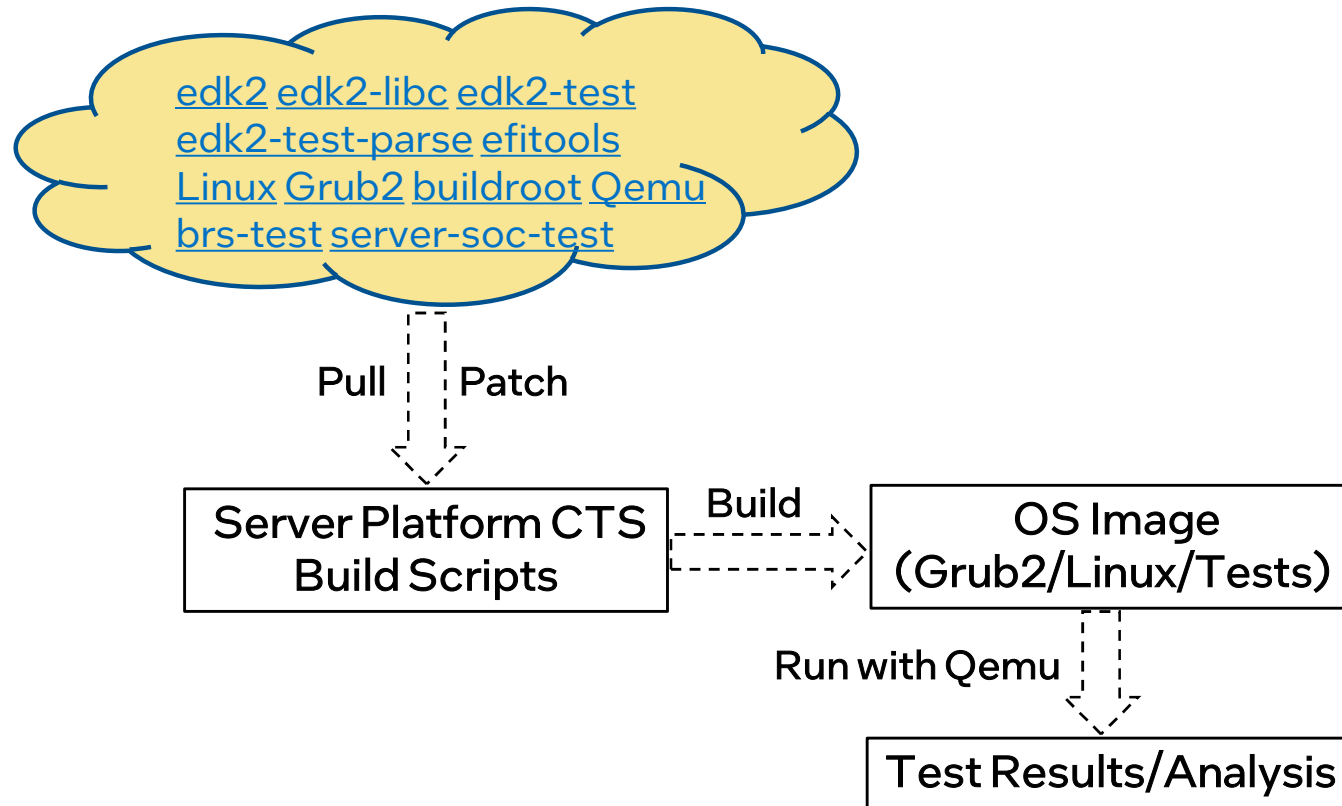
*Porting work
are needed!*

<https://github.com/ARM-software/arm-systemready>

RISC-V Server Platform CTS Proposal – Repository



RISC-V Server Platform CTS Proposal – Build/Run



Action Required

- Setup Server Platform CTS repository
- Sync with Server SoC TG
 - Qemu RISC-V Server SoC machine(ref [sbsa-ref](#));
 - Test cases and repository
- Sync with PRS/BRS TG
 - SBI test and repository
 - BRS test suite repository
- Sync with Security Model TG
 - Server Platform Security Requirement(ref BBSR) and test
- Sync with RISE FW/Kernel WG
 - EDK2 platform package for RISC-V Server Platform(ref [SbsaQemu](#));
 - Linux ACPI/SMBIOS etc.

The Intel logo is centered on a solid blue background. It features the word "intel" in a white, lowercase, sans-serif font. A small blue square is positioned above the letter "i". To the right of the word "intel" is a registered trademark symbol (®).

intel®