



챌린지 홈

챌린지 소개&가이드

챌린저 현황

챌린저 자유게시판

무엇이든 물어보세요

퀘스트 수행 기록

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Quest-2에서 수행 했던 MP1 ecosystem distribution 환경에서 SDK를 추출, 생성하고 이를 사용하여 A7 에서 구동되는 LED blink (linux user application)을 작성하고 STM32MP157C-DK2 보드에 올려 확인한다. (* LED는 어떤 색을 제어하더라도 무방)

퀘스트 통과 조건

1. SDK 추출, 생성 결과물 및 설치 결과물에 대한 디렉토리 정보와 함께 컴파일러(arch=armv7ve)의 정보(디렉토리 위치, CC 환경 제출 (* Sample screenshot 참고))
2. SDK 를 사용하여 빌드 된 executable file 의 정보를 target(DK2 board) 시스템 정보를 함께 출력하여 제출 (* Sample screenshot 참고)
3. MP1 터미널(tty serial, ssh, target terminal등)에서 LED blinking 어플리케이션 실행하면 LED가 깜빡이는 장면 영상 제출

단계

Write the A7 application

참고

Execute the A7 application on the DK2 board.

예제

```

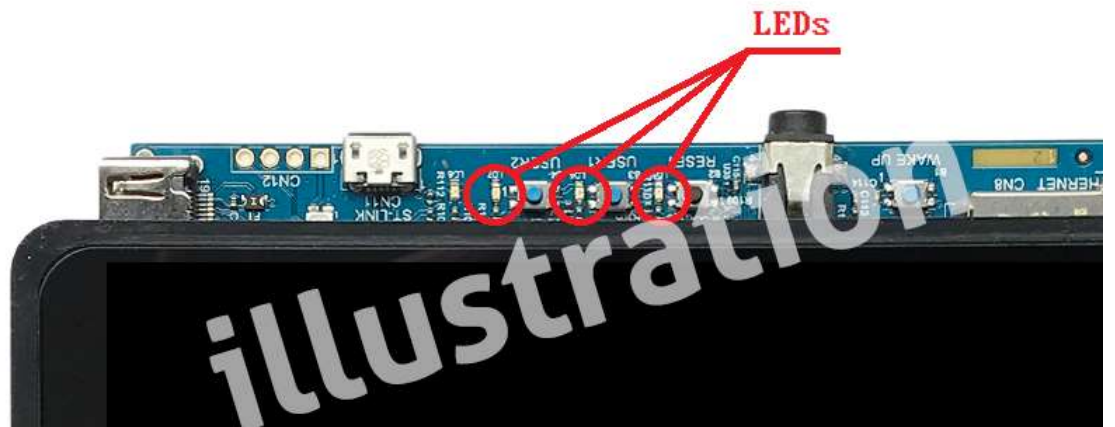
marcus@T440p: ~/.../quest/distribution/openstlinux-20-02-19
File Edit View Search Terminal Help
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$ ls ./build-openstlinuxweston-stm32mp1
plog/sdk/
st-image-weston-openstlinux-weston-stm32mp1-x86_64-toolchain-2.6-snapshot.host.manifest
st-image-weston-openstlinux-weston-stm32mp1-x86_64-toolchain-2.6-snapshot.license
st-image-weston-openstlinux-weston-stm32mp1-x86_64-toolchain-2.6-snapshot-license_content.html
st-image-weston-openstlinux-weston-stm32mp1-x86_64-toolchain-2.6-snapshot.sh
st-image-weston-openstlinux-weston-stm32mp1-x86_64-toolchain-2.6-snapshot.target.manifest
st-image-weston-openstlinux-weston-stm32mp1-x86_64-toolchain-2.6-snapshot.testdata.json
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$ ls ./sdk
environment-setup-cortexa7t2hf-neon-vfpv4-ostl-linux-gnueabi
site-config-cortexa7t2hf-neon-vfpv4-ostl-linux-gnueabi
sysroots
version-cortexa7t2hf-neon-vfpv4-ostl-linux-gnueabi
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$ source sdk/environment-setup-cortexa7
v4-ostl-linux-gnueabi
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$ which $CC ; xargs ls -alh
-rwxr-xr-x 1 marcus 1.1M 4월 21 19:48 /home/marcus/Workspace/stm32mp1/quest/distribution/
0-02-19/sdk/sysroots/x86_64-ostl-linux-gnueabi/arm-ostl-linux-gnueabi-
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$ echo $CC
arm-ostl-linux-gnueabi-gcc -march=armv7ve -mthumb -mfpu=neon-vfpv4 -mfloat-abi=hard -mcpu=cortex-
/home/marcus/Workspace/stm32mp1/quest/distribution/openstlinux-20-02-19/sdk/sysroots/cortexa7t2hf-
stl-linux-gnueabi
marcus@T440p:~/.../quest/distribution/openstlinux-20-02-19$

```

```

marcus@T440p: ~
root@stm32mp1:~#
root@stm32mp1:~#
root@stm32mp1:~# uname -a && lsb_release -a
Linux stm32mp1 4.19.94 #1 SMP PREEMPT Thu Jan 9 09:19:10 UTC 2020 armv7l armv7l armv7l
LSB Version:    core-5.0-noarch:core-5.0-arm
Distributor ID: openstlinux-weston
Description:    ST OpenSTLinux - Weston - (A Yocto Project Based Distro) 2.6-snapshot-20
Release:        2.6-snapshot-20200420-063257
Codename:       thud
root@stm32mp1:~#
root@stm32mp1:~#
root@stm32mp1:~#
root@stm32mp1:~#
root@stm32mp1:~# file ./greenlight | tr ' ' '\n'
./greenlight: ELF 32-bit LSB executable
ARM
EABI5 version 1 (SYSV)
dynamically linked
interpreter /lib/ld-linux-armhf.so.3
for GNU/Linux 3.2.0
BuildID[sha1]=d9c33196d2f8818b3057a26c93f5a19600b9d515
with debug info
not stripped
root@stm32mp1:~#
root@stm32mp1:~#
root@stm32mp1:~#
root@stm32mp1:~#
root@stm32mp1:~# ls -alh
total 18K
drwx----- 2 root root 1.0K Apr 21 11:11 .
drwxr-xr-x 3 root root 1.0K Mar  9 2018 ..
-rw----- 1 root root 1.1K Apr 21 11:13 .ash_history
-rw-r--r-- 1 root root 238 Mar  9 2018 README-CHECK-GPU
-rwxr-xr-x 1 root root 12K Apr 21 10:53 greenlight
-rw-r--r-- 1 root root 352 Apr 21 11:11 tr
root@stm32mp1:~#
root@stm32mp1:~# ./greenlight
CTRL-A Z for help | 115200 8N1 | NOR | Minicom 2.7.1 | VT102 | Offline | ttyACM0

```


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(주)채널5코리아 | 서울 구로구 디지털로34길 43(코오롱사이언스밸리1차) 405호
 전화/이메일 : 070-4699-5320 / daniel@e4ds.com
 대표이사: 명세환 / 사업자등록번호: 113-86-36448 / 통신판매업신고번호: 2011-서울강서-0506호
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