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| **Program / Project Name:** | CA5G |
| **Checklist / Template Completed by:** | TBD |
| **Date Completed:** | Click here to enter a date. |

**Tips for CA5G Development**

Revision: A.0

**Detailed Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Rev** | **Date** | **Editor(s)** | **Description of change** |
| A.0 | 18-SEP-2019 | Sang-Gu Kang | Initial Draft |
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# Environment

## SSH

Port: 22

User: root

Password: SiG2018

## Manual updated

\\ds\apdata$\SEO\RFTest\PLM\Public\Technical Publications

## QtCreator Setup

스크린샷이(가) 표시된 사진

자동 생성된 설명

스크린샷이(가) 표시된 사진

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자동 생성된 설명

스크린샷이(가) 표시된 사진

자동 생성된 설명

### Build 설정

스크린샷, 노트북, 컴퓨터, 실내이(가) 표시된 사진

자동 생성된 설명

### Run(Deploy) 설정

스크린샷, 컴퓨터, 노트북이(가) 표시된 사진

자동 생성된 설명

* Build 결과물을 장비에 write하기 위해 필요한 설정이다.
* Add Deploy Step버튼을 눌러 Custom Process Step을 선택한다.
* Command: /usr/bin/rsync
* Arguments: -av ./install/\* --rsh="sshpass -p SiG2018 ssh -l root" [root@10.82.26.22:/](mailto:root@10.82.26.22:/)
* Run configuration: (on Remote Device)로 되어 있는 것 선택
* Alternate executable on device: 에서 Use this command instead 체크박스 선택한 후 service.sh입력

# CMake

## CMakeLists.txt

~works/ca5g/ca5g/apps/CMakeLists.txt  
-> add\_subdirectory(signalAnalyzer5GNR)

~works/ca5g/ca5g/apps/signalAnalyzer5GNR/CMakeLists.txt  
-> add\_subdirectory (signalAnalyzer5GNRBuildIn)  
-> add\_subdirectory (signalAnalyzer5GNRUtil)

# Option활성화 비활성화

SSH 접속 후 직접 입력. 타 부서 및 문서 노출 절대 안됨.

## Activation

enable\_options.sh F001O

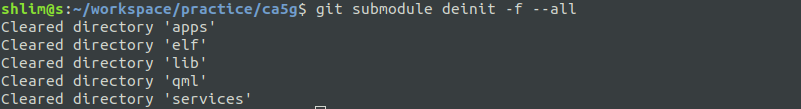
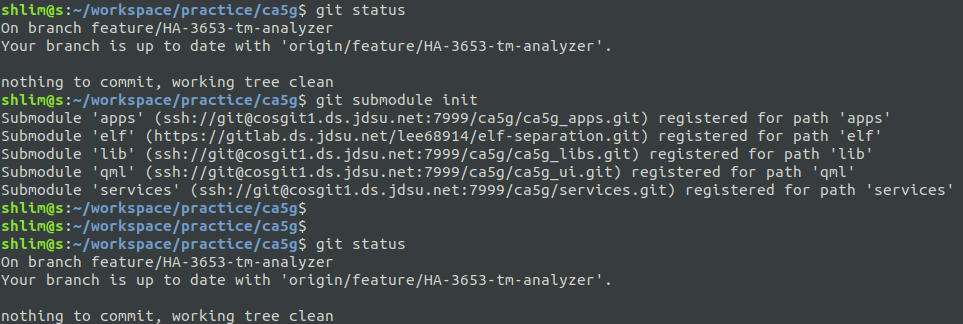
## Deactivation

disable\_options.sh F001O

# Branch

## Branch changing flow

브랜치를 변경한 경우에는 부모 프로젝트와 자식 프로젝트 간 submodule을 초기화 시켜주어야 한다.

* Git clone  
  shlim@s:~/workspace/practice$ git clone ssh://git@cosgit1.ds.jdsu.net:7999/ca5g/ca5g.git
* Checkout  
  shlim@s:~/workspace/practice/ca5g$ git checkout feature/HA-3653-tm-analyzer
* Submodule deinit  
  
* Submodule init  
  
* doQt 실행  
  open CMakeLists.txt
* Run CMake  
  Build > Run CMake
* Build, Run 설정 체크  
  -. 좌측 Projects 버튼 선택  
  -. Build 항목 선택 후 1.3.1 Build 설정 참조  
  -. Run 항목 선택 후 1.3.2 Run(Deploy)설정 참조
* Build All  
  Build > Build All
* Deploy All  
  Build > Deploy All
* Run
* Warning message  
  Warning: The unit file, source configuration file or drop-ins of scpi.service changed on disk. Run 'systemctl daemon-reload' to reload units.와 같은 warning 메시지가 발생하면 장비에 systemctl daemon-reload 명령을 타이핑 해 주거나 장비를 다시 시작하면 된다.

# Temp

주요 작업은 /base/

장비의 저장 장치는 /user/cellAdvisor5G/Internal

Save/Load등 할 때 임시 파일 위치 /tmp

/tmp/logOn

Journalct기

X86에서 시작할 때는 start.sh

/base

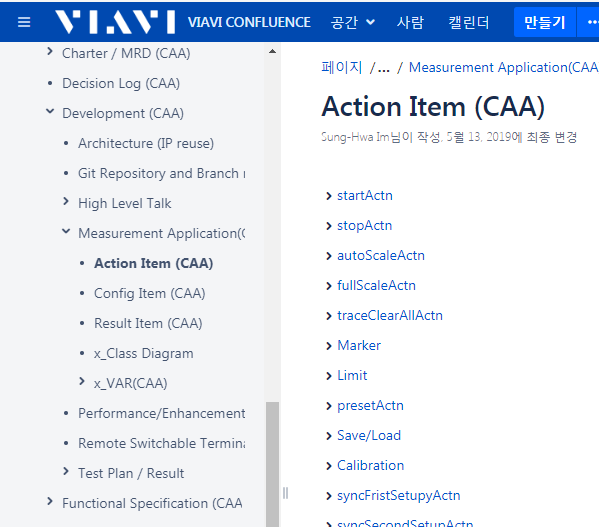
/base/bin

service.sh or service.sh start는 켤 때, service.sh stop은 끌 때

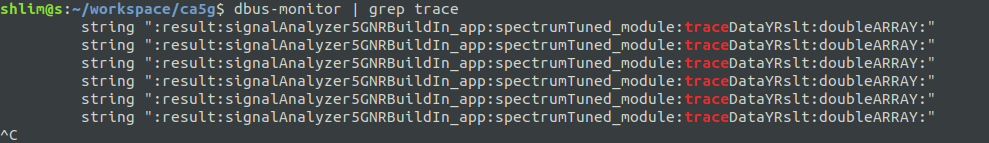
/base/bin/qmljdsu

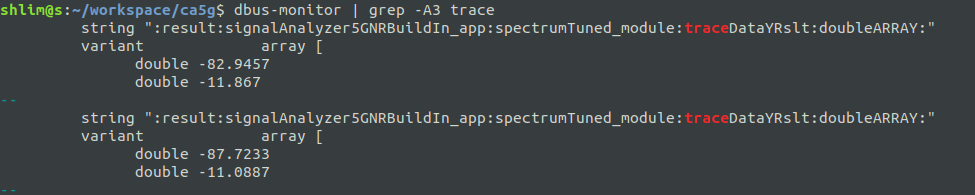
/base/manifest process.json 새로 measure를 만들면 이곳에 등록

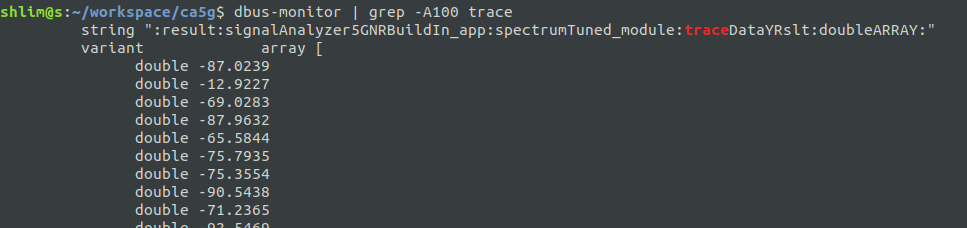
Confluence에 UI와 협의한 Item들을 등록해야 함(서로 일치하게 하기 위해서)

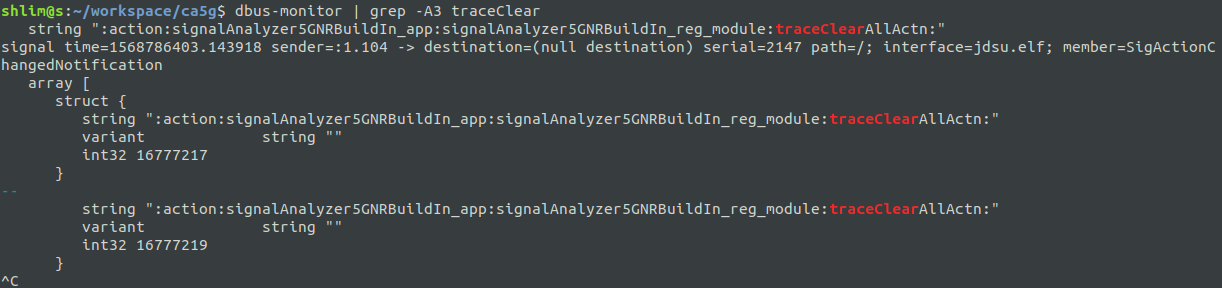


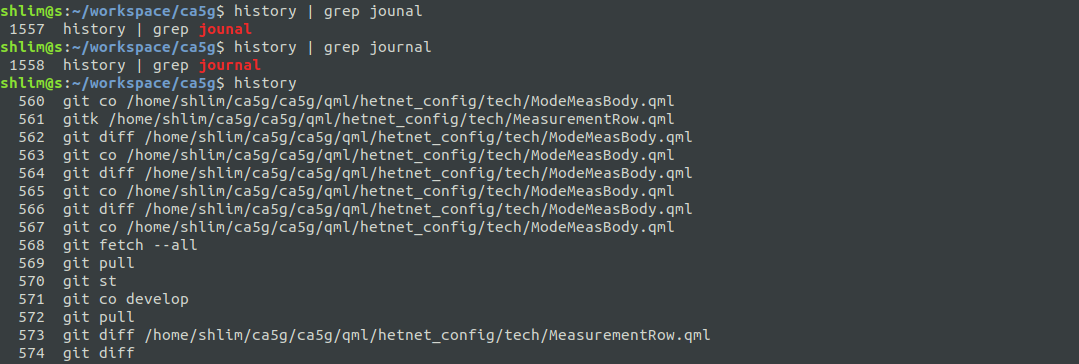
Debug할 때는 gview나 dbus-monitor를 사용함. Gview는 개발할 때 유용하고, dbus-monitor는 UI와 App 중 문제가 어디 있는지 진단할 때 유용.

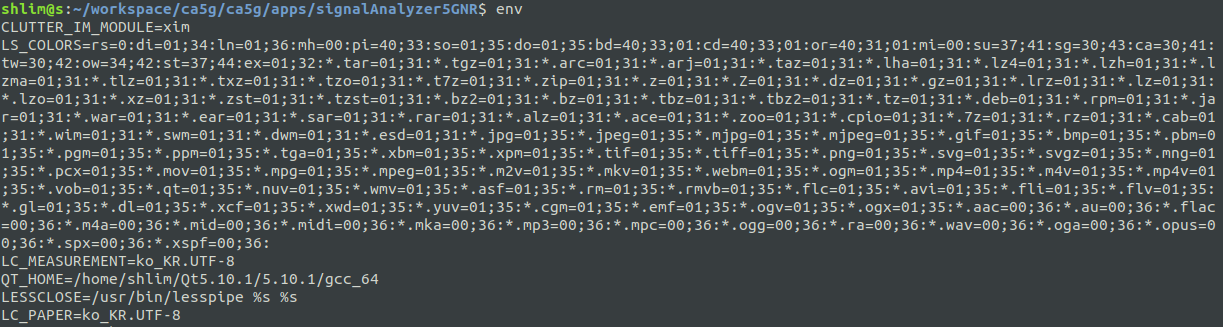
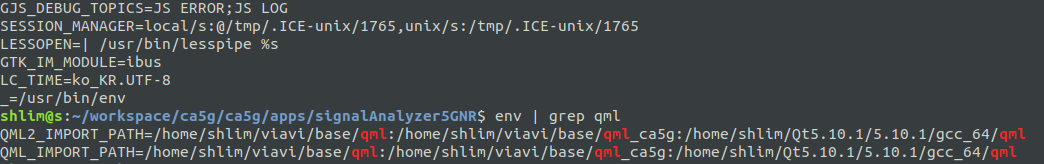
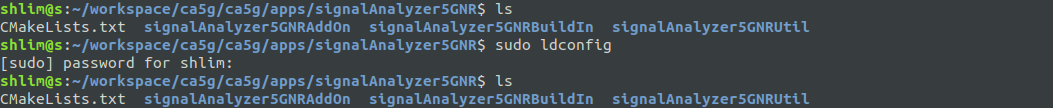
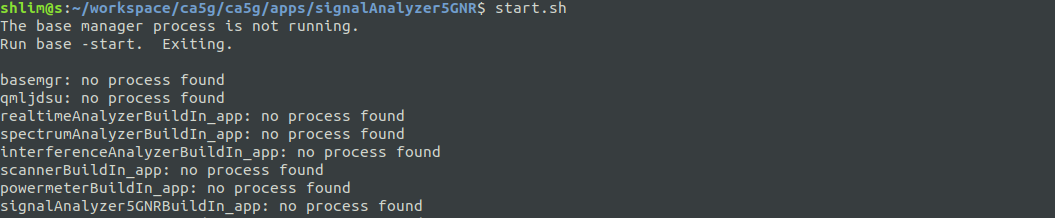


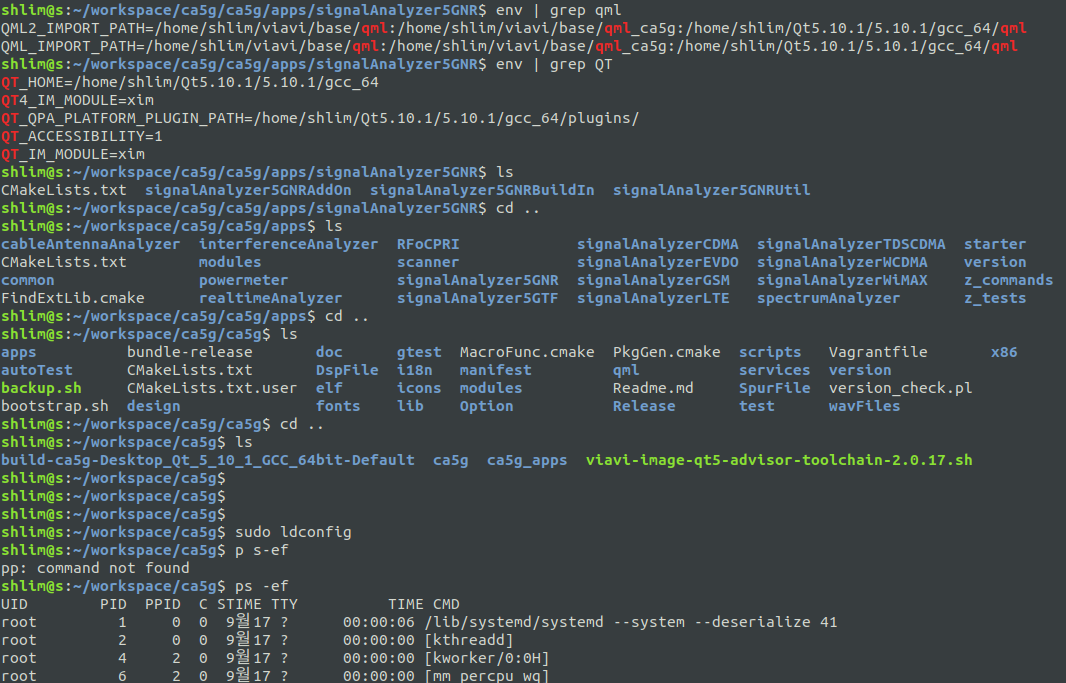
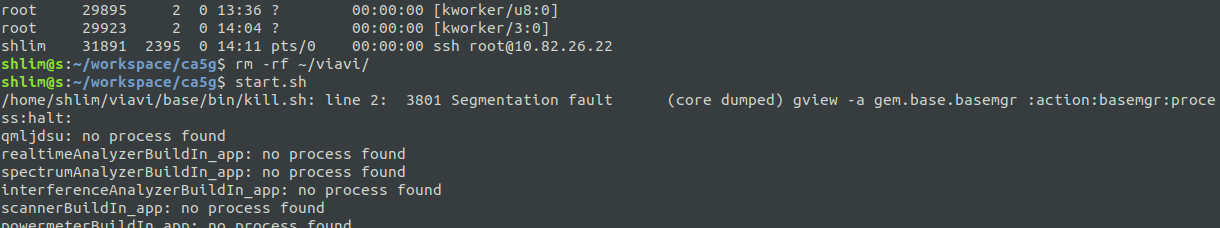
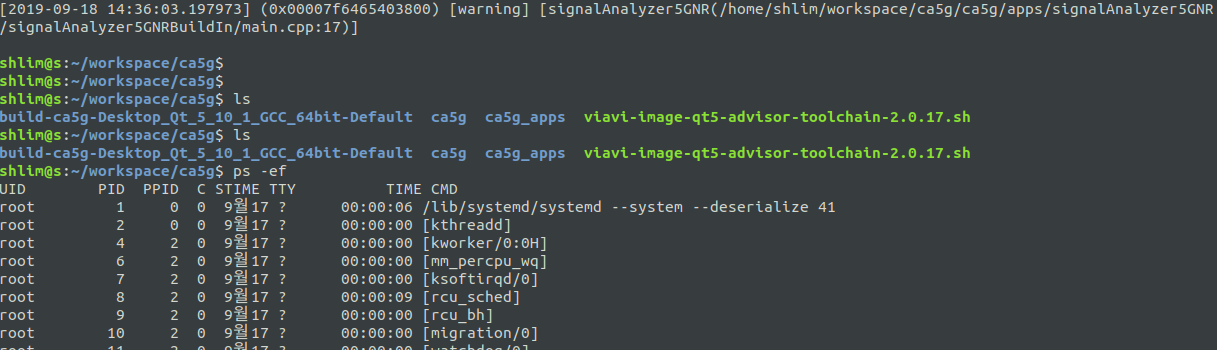


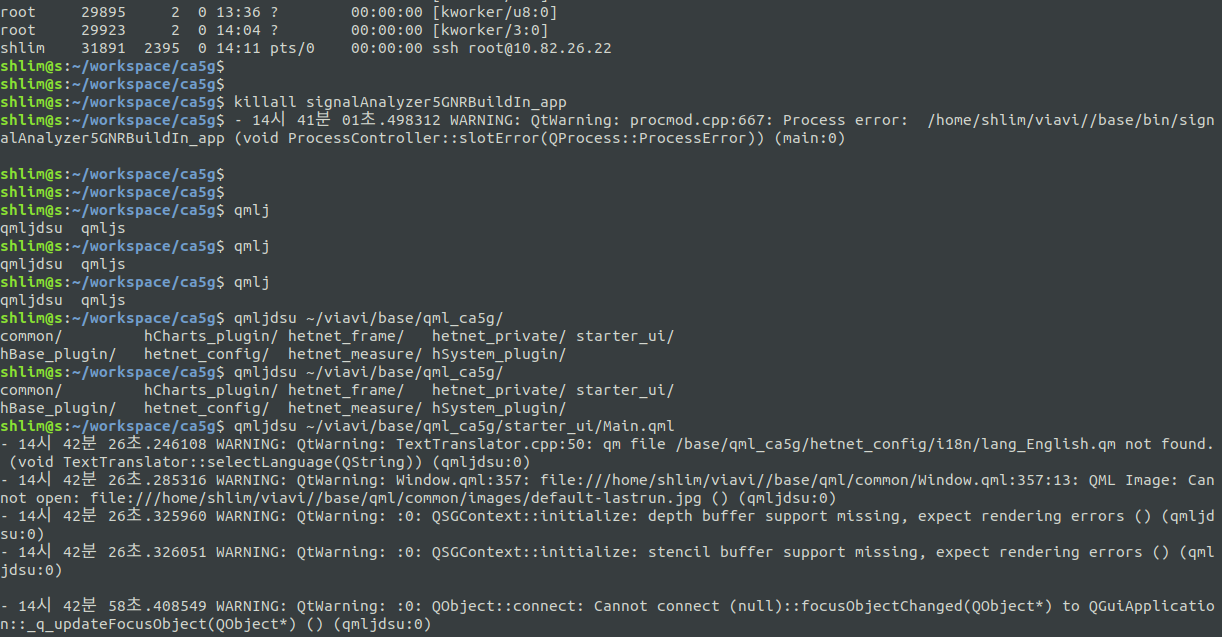


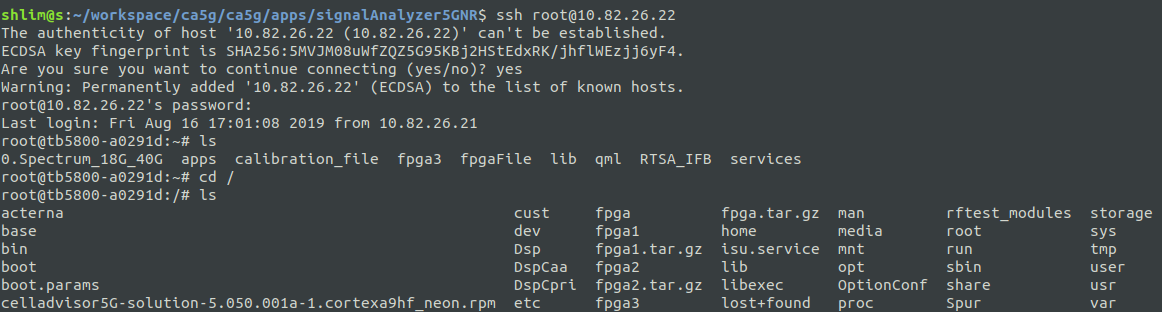


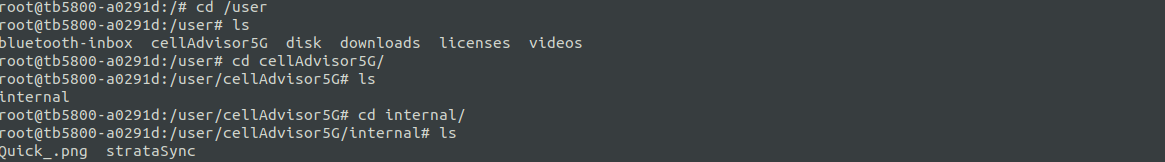


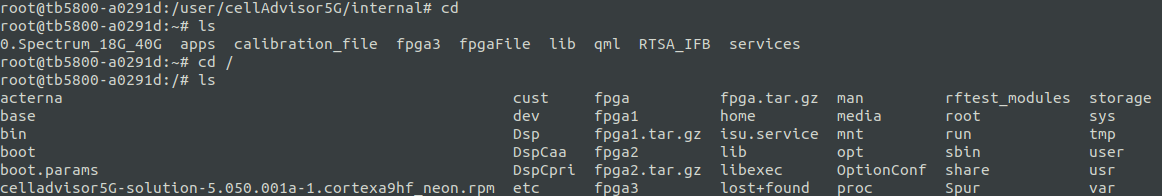
  
  
  


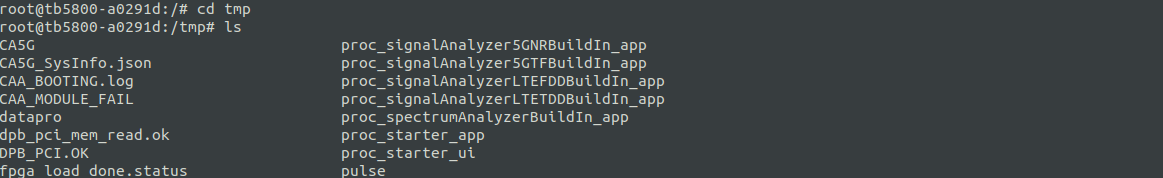
  
  


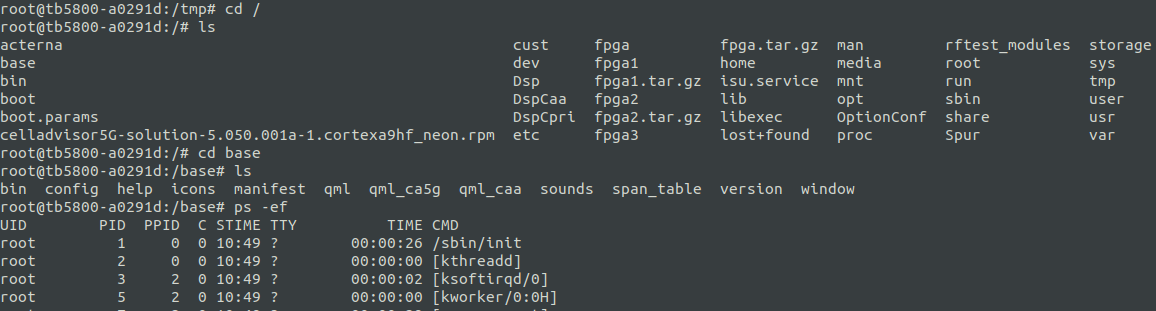


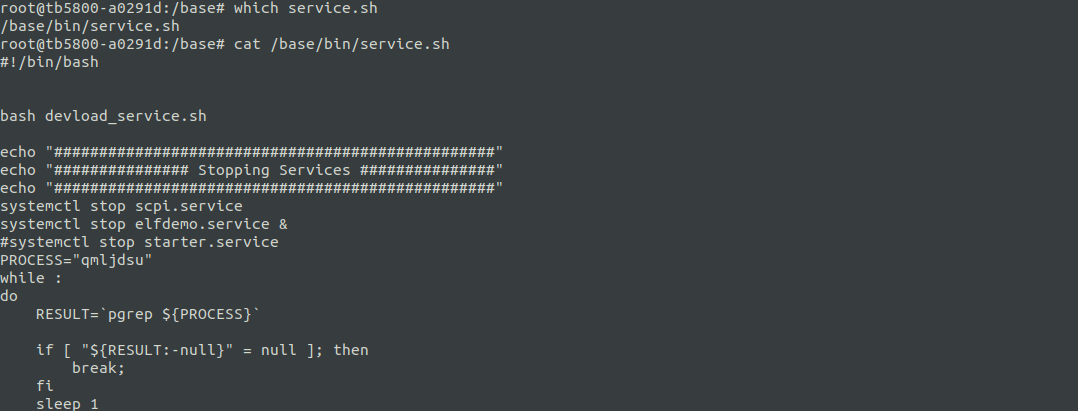


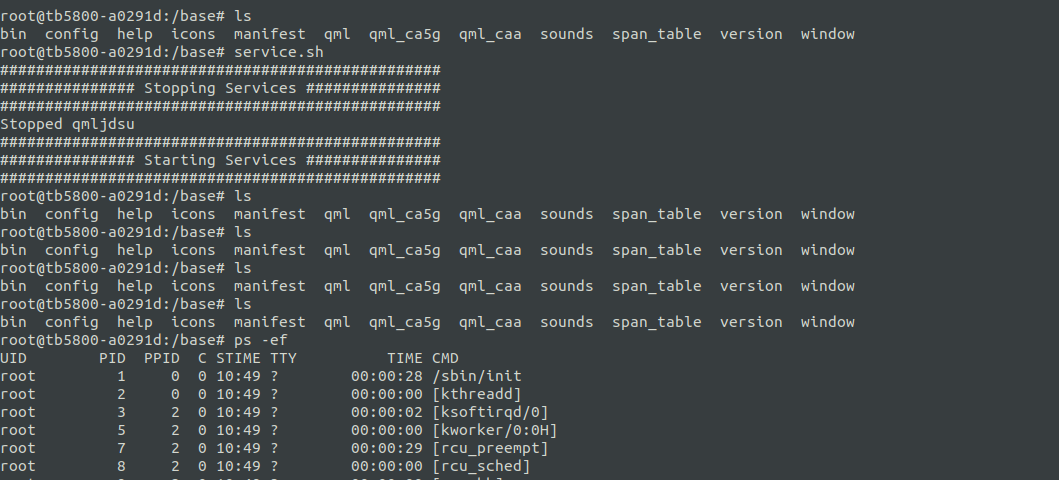
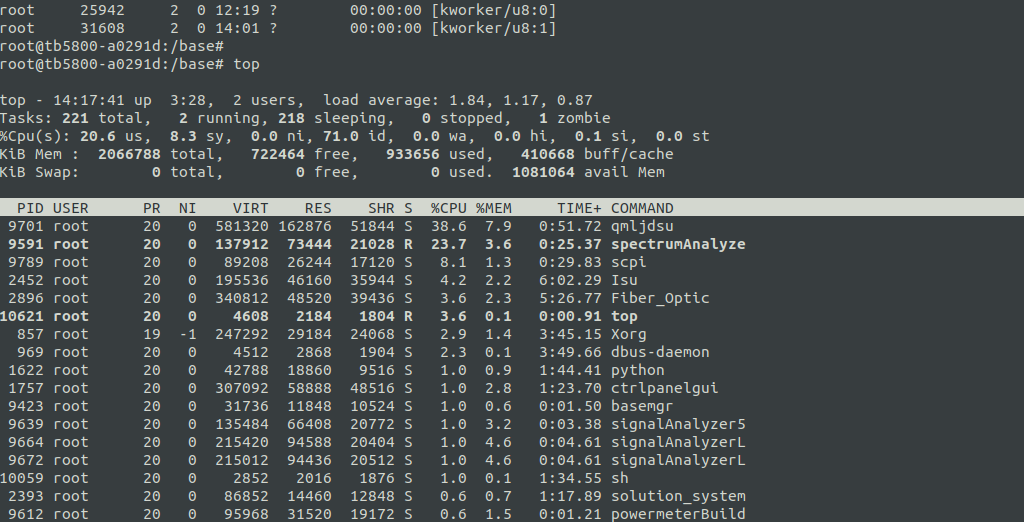
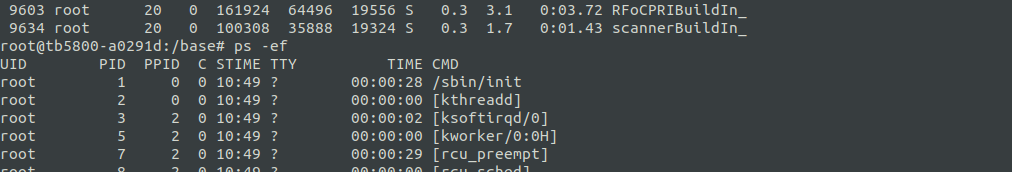


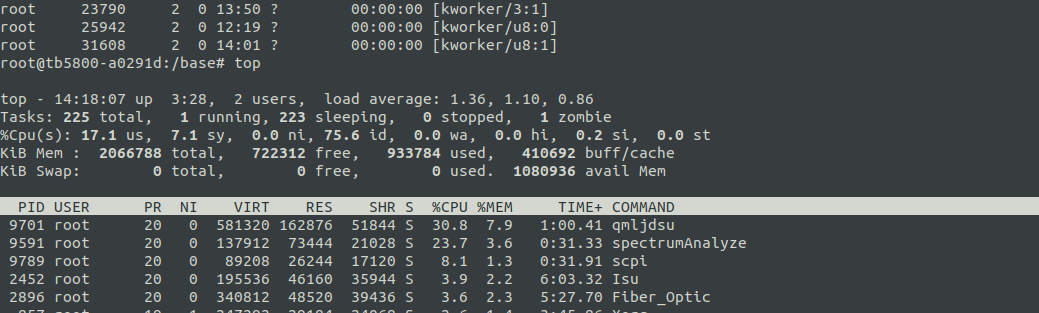


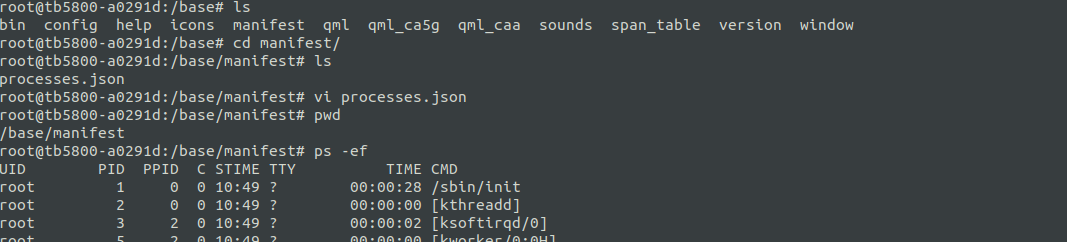


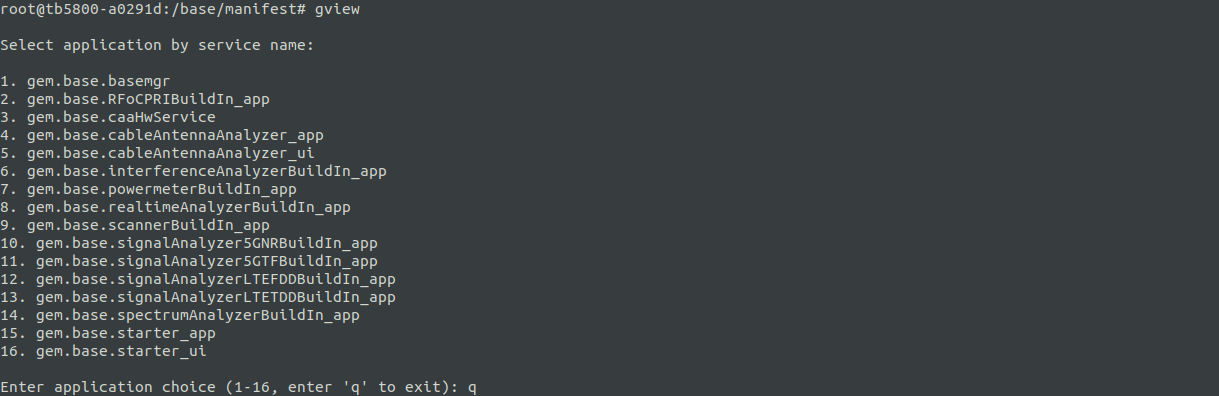


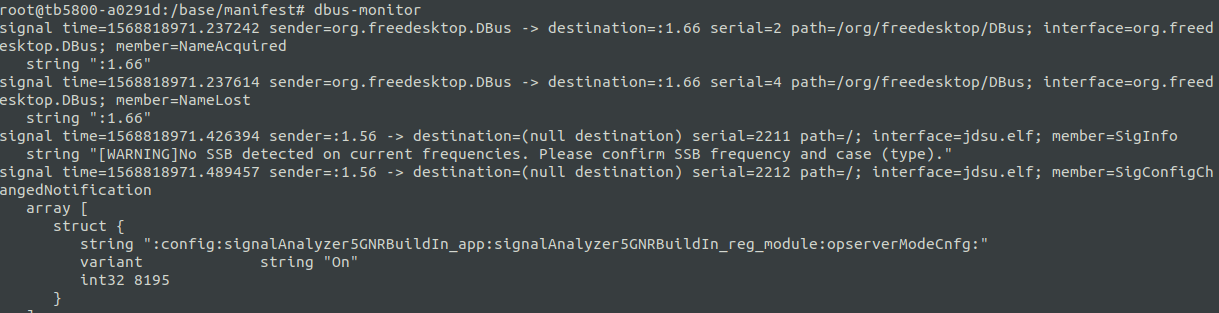
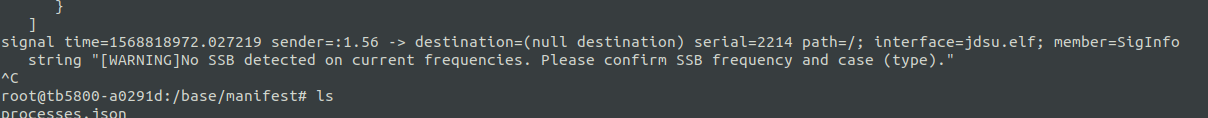


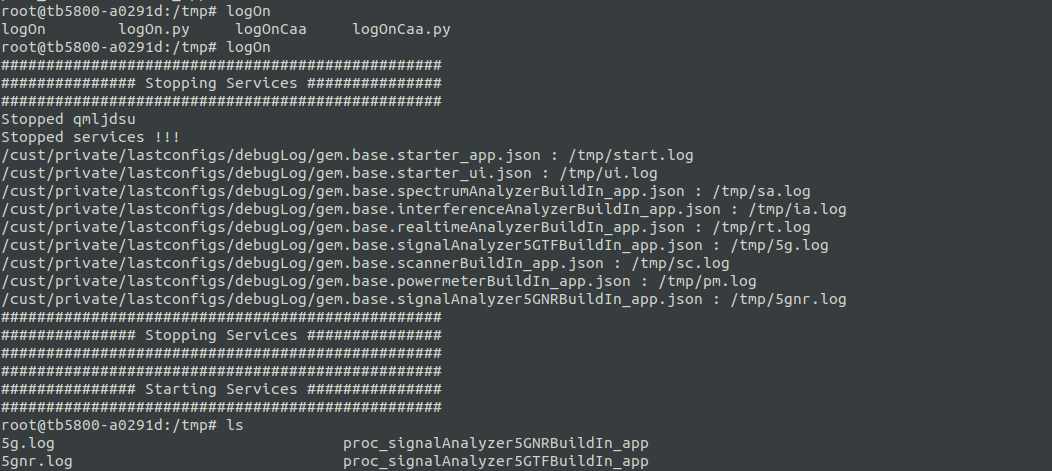
  
  


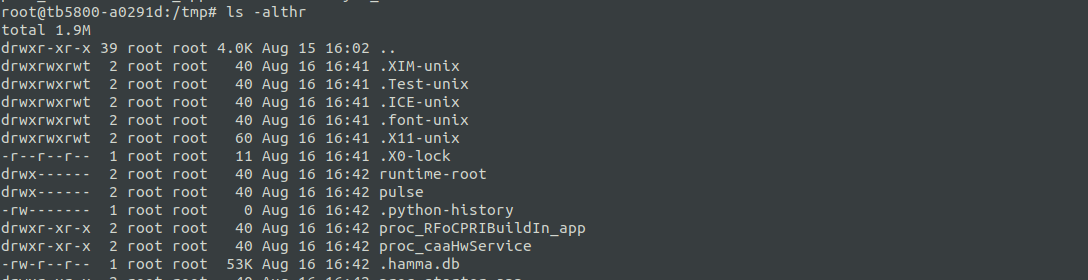


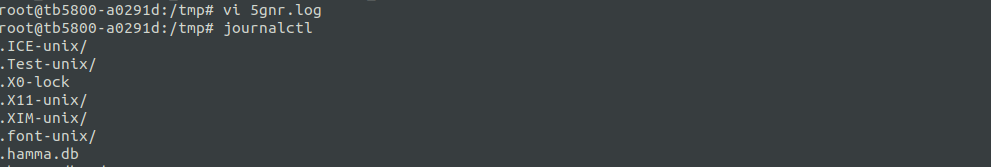


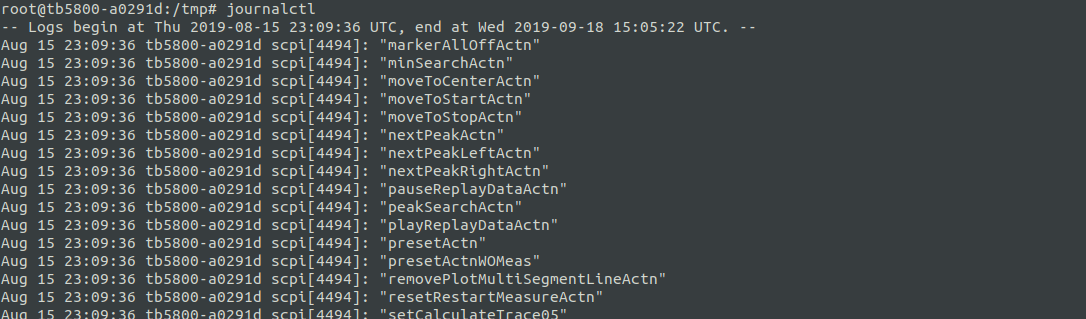


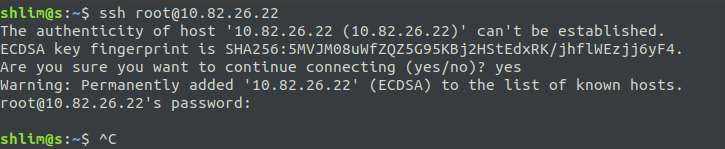


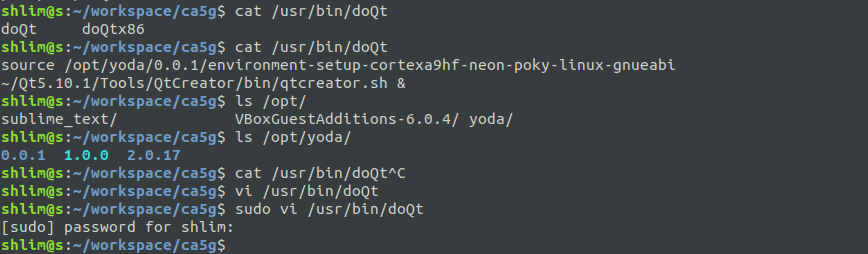


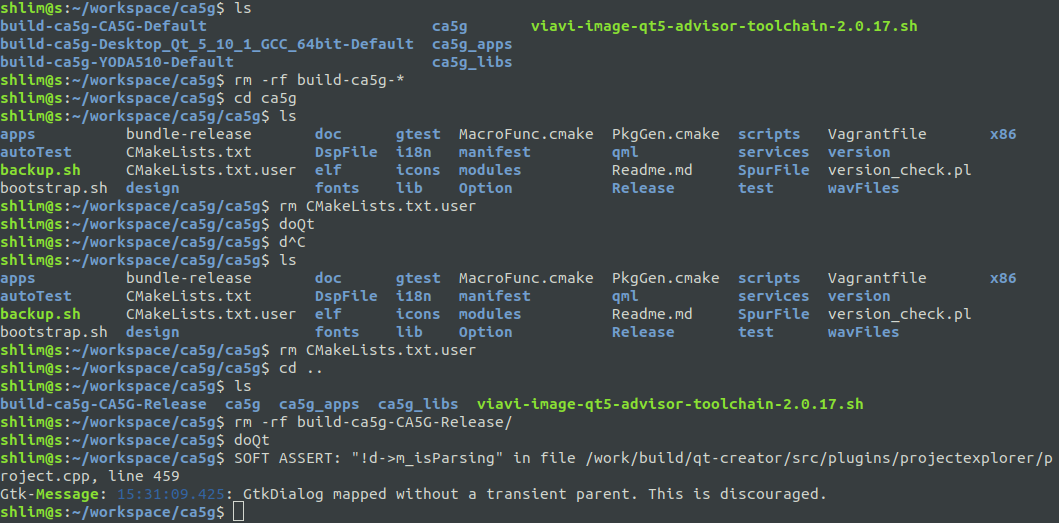




Kit(CA5G)에서 실행할 수 있도록



# Util

## doQt

Qt 실행할 때는 doQt 명령으로 실행.

## gitk

git log와 유사함.

# Project

DSP library는 ca5g\_libs에 위치한다.

JIRA issue resolve하면 QA 팀으로 assign할 것.

# Source Analysis

## apps

### signalAnalyzer5GNR

## lib

### dsp5GNR

#### rfDSP5GNRModule.cpp

-. measure해서 data를 만든다.