



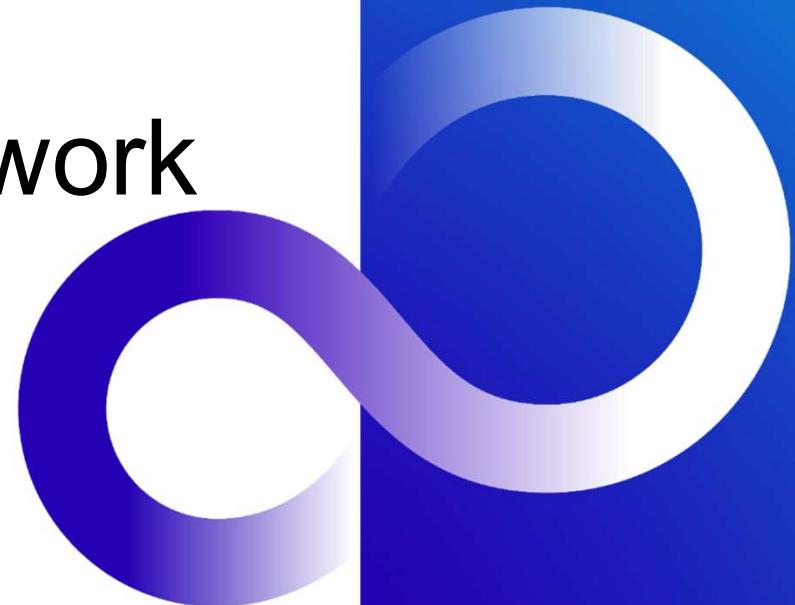
# AGL\_release\_test\_framework

-- LAVA based solution

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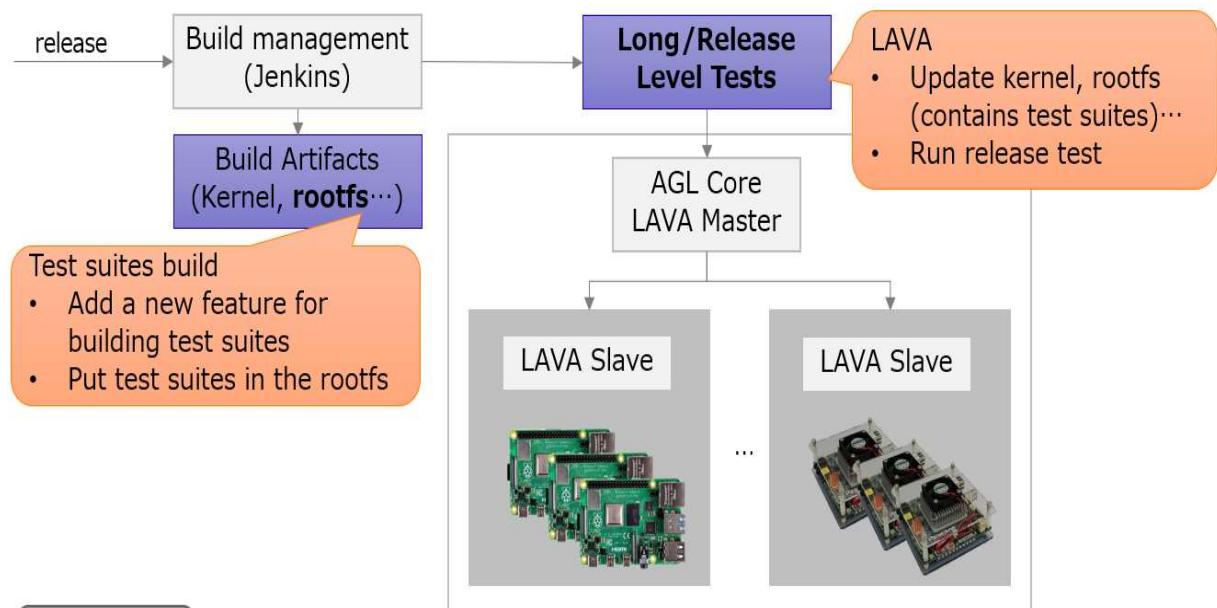
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# Features



- Can be added to any image essentially
- Can be run separately on any board essentially
- Can be run all test suites in a simple way
- Can be customized the contents of test suites easily
- Can analyze test results automatically
- Can report results by LAVA log
- Can report results by other way(shared directories, etc.)

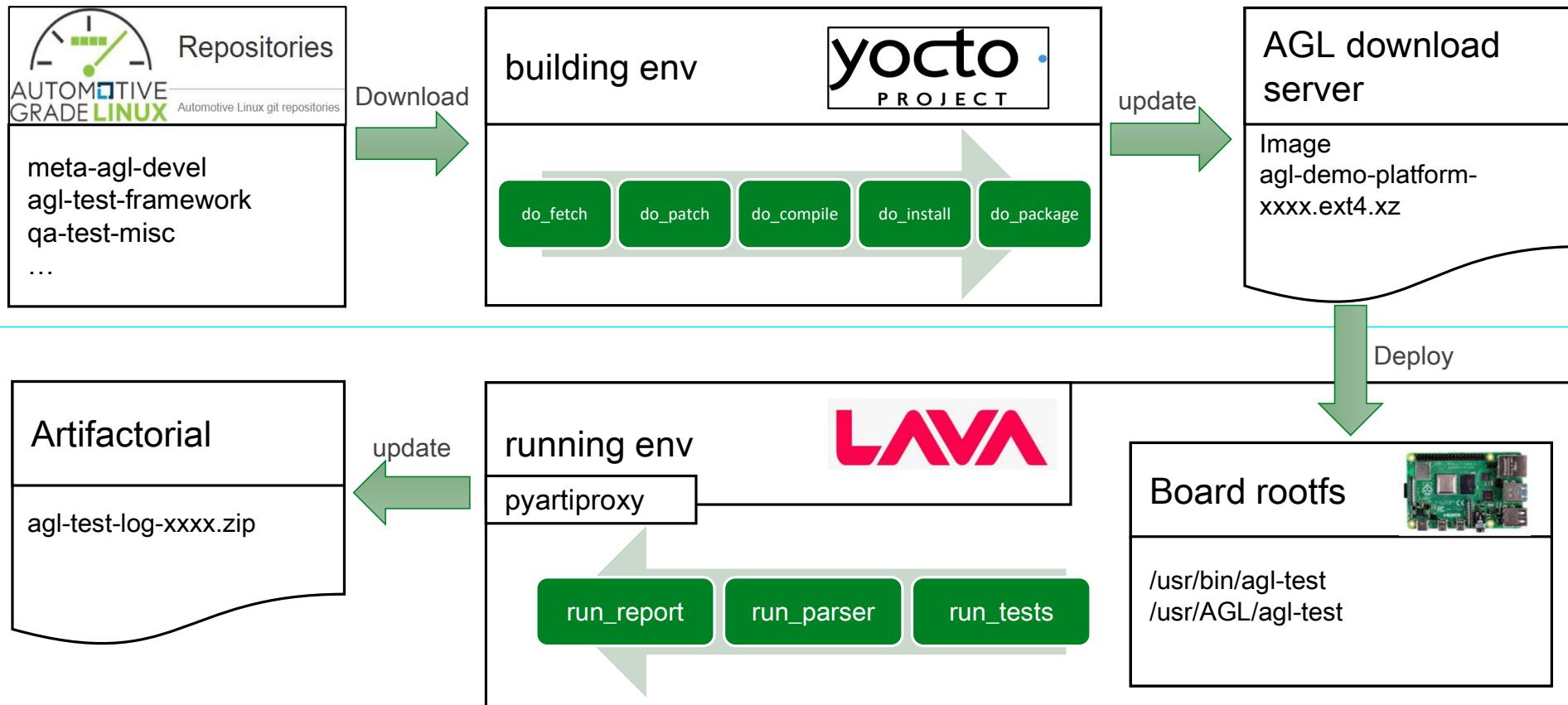


- Reference to :  
<https://jira.automotivelinux.org/secure/attachment/14905/Supporting%20release%20test%20for%20AGL.pdf>

# Image of test framework

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## ● Process

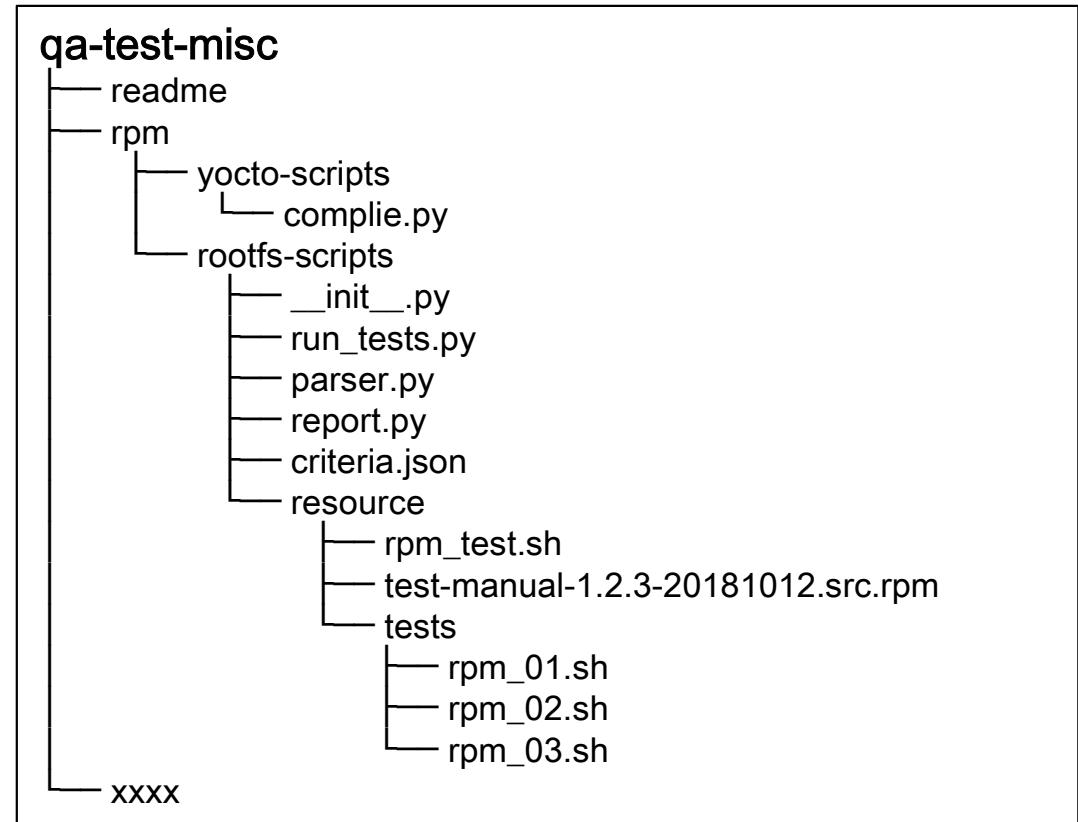


# Image of test framework

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- AGL Repository

- qa-test-misc(re-use) :
  - test suites
- Type of test suites:
  - Functional test
  - Benchmark test
- Object of test suites
  - Kernel
  - OSS(libs, tools, etc.)
  - Service
  - App

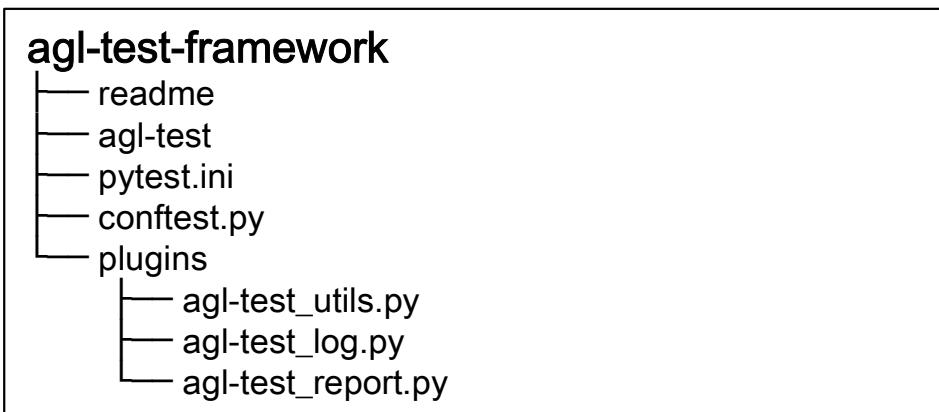


# Image of test framework

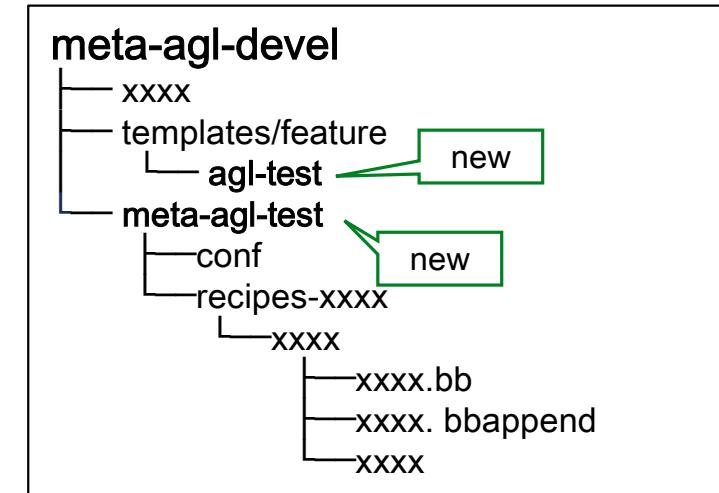
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- AGL Repository

- **agl-test-framework(new)** :
  - test framework



- **meta-agl-devel(modify)**:
  - **recipes**

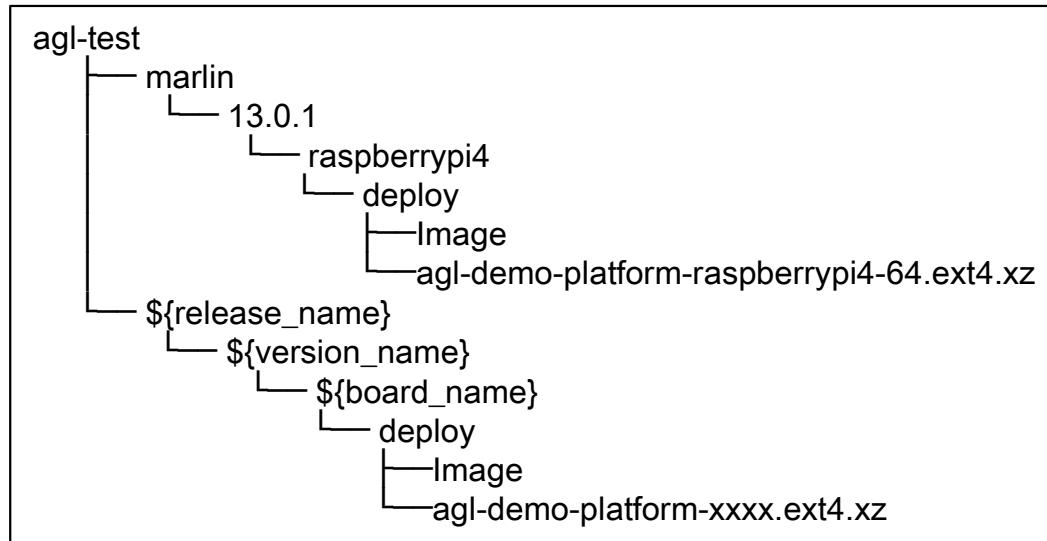


# Image of test framework

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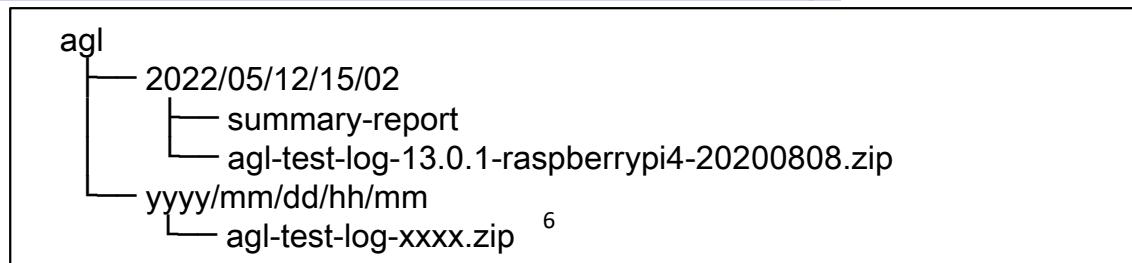
- AGL download server

- <https://download.automotivelinux.org/AGL/upload/agl-test/>



- Artifactorial

- <http://135.181.99.107:8002/artifacts/home/agl>



- Sample Qt based IVI demo :

- Build the AGL Demo Image

```
# Initializing build environment with agl-test feature
$ source meta-agl/scripts/aglsetup.sh -f -m raspberrypi4 -b raspberrypi4 agl-demo agl-devel agl-test
$ echo '# reuse download directories' >> $AGL_TOP/site.conf
$ echo 'DL_DIR = "$HOME/downloads/"' >> $AGL_TOP/site.conf
$ echo 'SSTATE_DIR = "$AGL_TOP/sstate-cache/"' >> $AGL_TOP/site.conf
$ ln -sf $AGL_TOP/site.conf conf/
# Building
$ time bitbake agl-demo-platform
```

- Deploying the AGL Demo Image

- Using lava
    - Using a MicroSD card

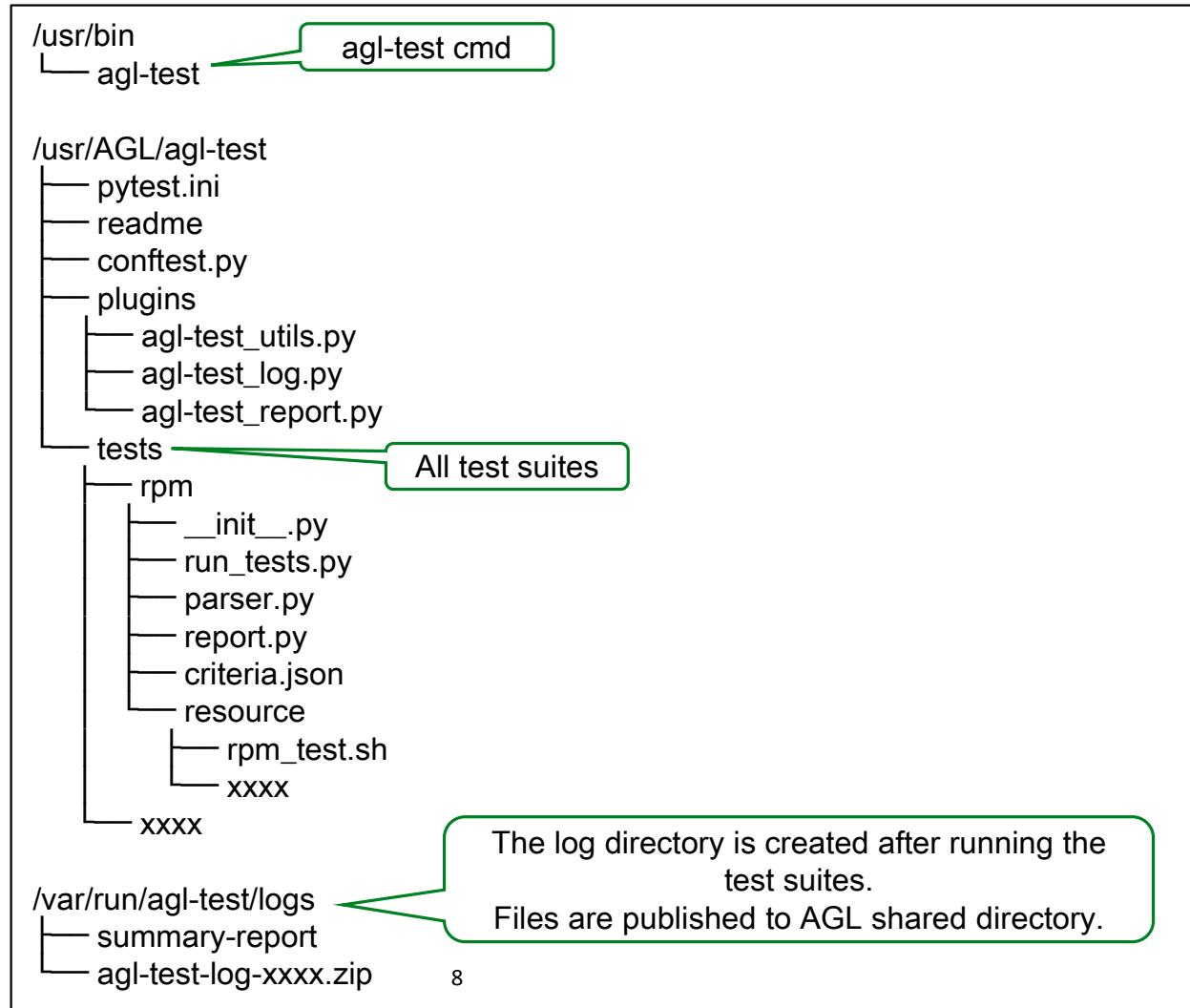
- Reference to:

[https://docs.automotivelinux.org/en/master/#0\\_Getting\\_Started/2\\_Building\\_AGL\\_I mage/5\\_2\\_Raspberry\\_Pi\\_4/#4-deploying-the-agl-demo-image](https://docs.automotivelinux.org/en/master/#0_Getting_Started/2_Building_AGL_I mage/5_2_Raspberry_Pi_4/#4-deploying-the-agl-demo-image)

# Image of test framework

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## ● rootfs of a board



- run test suites
  - \$ agl-test
- customize the contents of test suites
  - Customize by your task
    - define your task in pytest.ini file

```
markers =
oss_default: default test suites of OSS like rpm, etc.
your_test: test suites of your customization.
```
    - \$ /usr/bin/agl-test your\_test
  - Customize by one test suite file
    - \$ /usr/bin/agl-test \${file\_name}

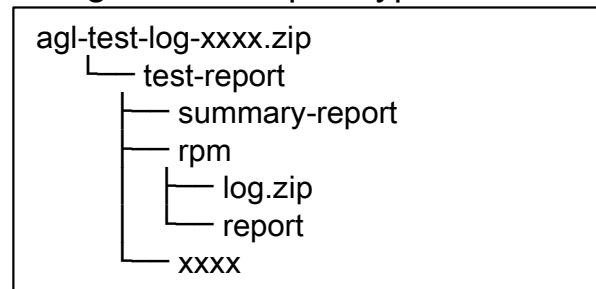
# Image of test framework

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## ● Test results

- summary-report (.html)
  - Summary of results for all test suites
- agl-test-log-xxxx.zip
  - xxxx: version, board and timestamp.
    - e.g.. agl-test-log-13.0.1-raspberrypi4-20200808.zip

### ● Contents



- report (.html)
  - Summary of result for one test suites
- log.zip
  - Detail logs for one test suites

summary-report

Status : success

Total : xx Pass : xx Fail: xx Skip: xx

Details :

| test suite | status | pass | fail | skip |
|------------|--------|------|------|------|
| rpm        | Pass   | 3    | 0    | 0    |
| glib2      | Fail   | 2    | 2    | 0    |

Detail log : agl-test-log-xxxx.zip

report

Status : success

Total : xx Pass : xx Fail: xx Skip: xx

Details :

| test case | status |
|-----------|--------|
| case001   | Pass   |
| case002   | Fail   |
| case003   | Pass   |

Detail log : log.zip

Thank you

The Fujitsu logo, featuring the word "FUJITSU" in a white, sans-serif font with a small infinity symbol above the letter "j".