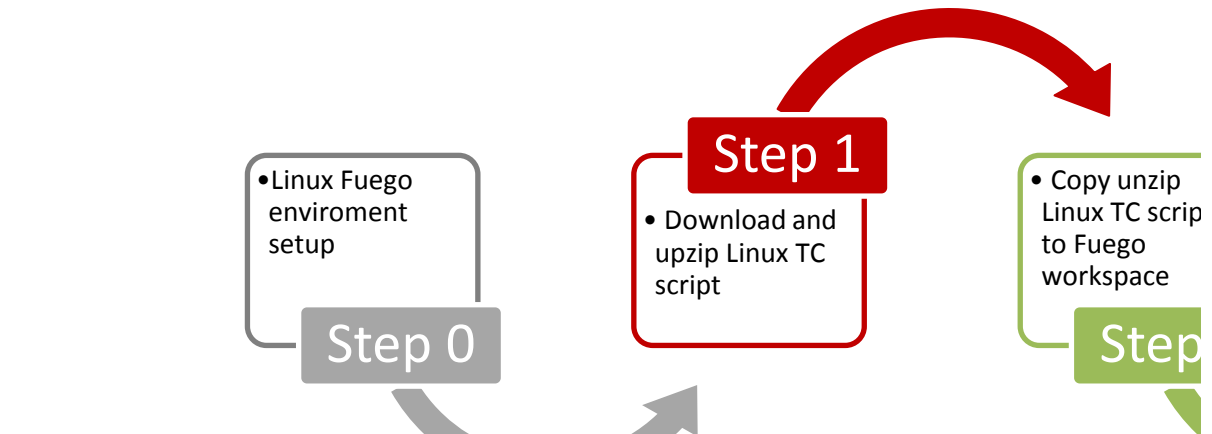


GUIDELINE TO EMBED TCs INTO FUEGO ENVIRONMENT

Because this document will be used internally in REL - RVC, some of reference links are inte



Step 0 Setup Linux FUEGO Environment

To embed an Linux TC to FUEGO environment, user has to setup an Linux FUEGO Environ



1. Download original FUEGO Environment from: <https://bitbucket.org/cogentembedde>
Refer to Implementation_Spec_TAF_LinuxST_vX.X.doc (part 1.4) to setup the environment

2. Download Linux FUEGO Environment from Redmine.

Refer to Implementation_Spec_TAF_LinuxST_vX.X.doc (part 2) to overwrite to the original

3. Download Linux TC script and embed TCs into Linux FUEGO environment

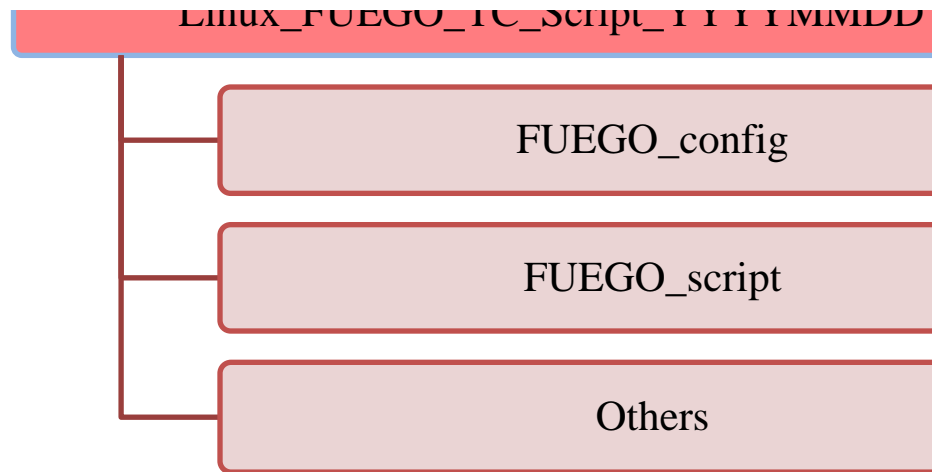
The scope of this document is process 3. It means that below content focus on embedding Lin
To embed Linux TC into FUEGO environment, user has to implement as following 5 steps:

Step 1 Download and Extract Linux TC Scripts

Package name: Linux_FUEGO_TC_Script_YYYYMMDD

Access to Redmine <https://socrm.dgn.renesas.com/documents/6822>, download and unzip “Li
Linux_FUEGO_TC_Script_YYYYMMDD folder structure is as below

Linux_FUEGO_TC_Script_YYYYMMDD



In which:

FUEGO_script	: FUEGO TCs script
FUEGO_config	: FUEGO TCs configuration
Others	: Supporting script for preparing data before exec

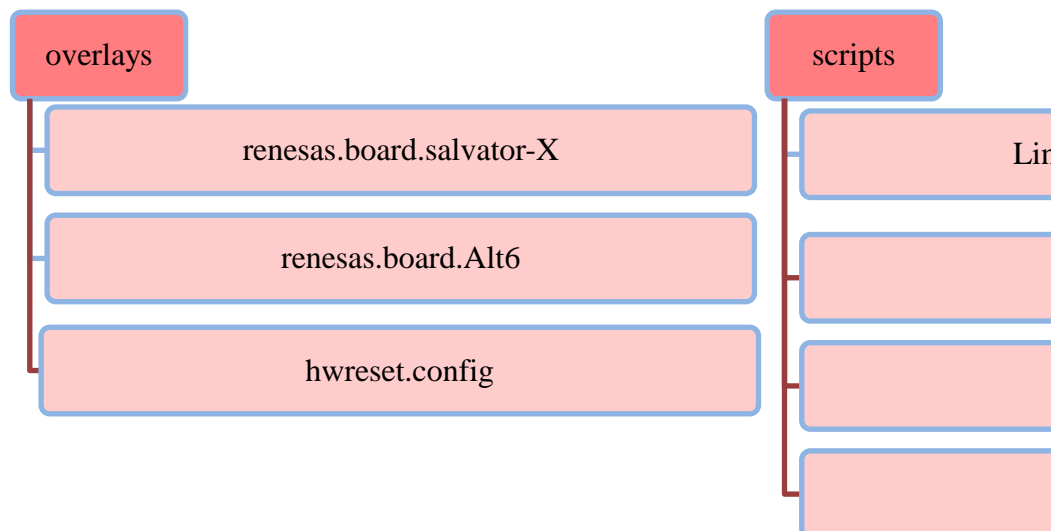
Step 2 Copy Extracted Linux TC Scripts to FUEGO Directory

(1) Unzip “Linux_FUEGO_TC_Script_YYYYMMDD.zip” to Linux_FUEGO_TC_Script_YYYYMMDD

Below is an example of unzip command, in this case, unzipped data is stored at the same folder

```
# cd /home/
# ls -l Linux_FUEGO_TC_Script_YYYYMMDD.zip
-rw-rw-r-- 1 rvc rvc 1550662 Jul 15 18:06 Linux_FUEGO_TC_Script_YYYYMMDD.zip
# unzip Linux_FUEGO_TC_Script_YYYYMMDD.zip
```

Linux_FUEGO_TC_Script_YYYYMMDD/FUEGO_script folder structure includes 4 folders:



- * overlays: added configuration files to support Renesas Board (R-CarH3, R-CarM3)
- * scripts: modified LinuxST_function.sh to support more drivers. In this case, RV
 - For convenience, overwrite original LinuxST_function.sh on FUEGO
 - Modify LinuxST_function.sh base on the one in the downloaded package
 - Add ST_device which contains script may put to device as same as the original
- * tests: includes Linux TC scripts. Each TC corresponds to a folder which contains
 - A host_script.sh to start TC from Linux PC
 - A device folder contains device_script.sh and other script/apps/lit
- * r_hwreset_util: includes source and makefile for Hwreset board

Note: In Linux_FUEGO_TC_Script_YYYYMMDD/* package, RVC only release scripts/file

(2) Copy test script into FUEGO folder

Note: REMEMBER to back up replaced files for worst cases

```
# cd /tftpboot/Linux_FUEGO_TC_Script_YYYYMMDD/FUEGO
# cp -R tests/ /home/jenkins/
# cp -R overlays/ /home/jenkins/
# cp -R scripts/ /home/jenkins/
# sudo chmod 777 -R /home/jenkins/tests/
# sudo chmod 777 -R /home/jenkins/overlays/
```

Step 3

Prepare Test Data

Before executing TCs, user need to prepare data depend on execution category

Execution of category TCs, for preparing data before executing TCs

- Application TCs: TCs require special applications which may need to prepare before executing
- Multimedia TCs: TCs require stream data in driver before executing
- Driver TCs: TCs require transfer data in driver before executing

(1) Prepare transfer data for driver TCs

After FUEGO environment setup, and before executing driver TCs, transferring data should be

- o File name: bin_xMB_y (x: size of file, y: number of file)
 - § E.g: bin_100MB_1 : the 1st binary file (100MB)
 - * **file size, unit of file and file number are named correctly to TC preparation**
- o Source binary file for copying MUST be put at **OUTGOING** folder of test device
 - § E.g: transfer 5 GB files from NFS to USB, data must be prepared as follows
 - /tftpboot/OUTGOING/bin_1GB_1
 - /tftpboot/OUTGOING/bin_1GB_2
 - /tftpboot/OUTGOING/bin_1GB_3
 - /tftpboot/OUTGOING/bin_1GB_4
 - /tftpboot/OUTGOING/bin_1GB_5
- o For convenience, copy and execute scripts in Linux_FUEGO_TC_Script_YYYYMMDD + make5files.sh

For transferring large files (5 x 1GB files) TCs, make5files.sh

§ E.g: execute **./make5file.sh /tftpboot/OUTGOING/**
=> create 5 bin 1GB files in folder /tftpboot/OUT

Free space demand: 5GB

+ **make5files500MB.sh**

For transferring large files (5 x 500MB files) TCs (eMMC t

§ E.g: execute **./make5file500MB.sh /tftpboot/OUTGOIN**
=> create 5 bin 500MB files in folder /tftpboot/O

Free space demand: 2.5GB

+ **make100files.sh**

For transferring many files (100 files) TCs, make100file.sh

§ E.g: execute **./make100file.sh /tftpboot/OUTGOING/**
=> create 100 bin files in folder /tftpboot/OUTGO

Free space demand: 5.5GB

(2) Prepare stream data for multimedia TCs

After FUEGO environment setup, and before executing driver TCs, stream data should be pre

- o File name: e.g. h264_cbp_110_128x96_30p_64kbps.3gp

* **media information file are defined correctly to TC procedure in 1**

- o Source binary file for copying MUST be put at **STREAM** folder of test device

§ E.g: transfer h264_cbp_110_128x96_30p_64kbps.3gp from NFS to S
/tftpboot/STREAM/h264_cbp_110_128x96_30p_64kbps.3gp

(3) Prepare application for application TCs

Before executing application TCs, below applications must be prepared, please refer to Apper

App name	Gen3 (Guideline's link)
Benchmark_apps	Benchmark
Busload	Busmoni
CodecTP	CODECTP
image_libs	image_libs
OpenGL	OpenGL
ts_calibrate	ts_calibrate
ttyecho	ttyecho
SCIF	SCIF
viewport-scaler	Lack of application.
OES2_Texture_Pix map_EGLImage_wl	Lack of application
Busybox	Refer to Implementation_Spec_TAF_LinuxST_v1.3.doc for installation (part 1.4.2)

[For more detail information about test application, please refer to Appendix sheet](#)

Note: Total amount of data is very huge, so depend on capacity of device. With manual or sei
With full automation TCs, the TCs should separate into groups for preparing data effectively.

Step 4 Embed TCs to FUEGO Environment via FUEGO Web Interface

After step 2, TCs and configuration files are copied into FUEGO directory only. This action :
A TC can only be executed on a target board when that TC and the configuration file of that board

0. Open FUEGO web interface

Start Docker by command line on Host PC:

```
# /opt/fuego/fuego-host-scripts/docker-start-container.sh
```

Launch Firefox and access link: localhost:8080/fuego to launch FUEGO web interface

1. Add new node (board/device)

(This step **MUST** be omitted if target board/device are available in Target Status tab of Home)
Each board/device has its corresponding configuration file in overlay folder. To realise this co:

- (1) Select Target Status
- (2) Select New node
- (3) Name of the node which be newly added (e.g., salvator-X)
- (4) Copy available settings of existing node (e.g., lager)

* **lager** is an available node that is implemented as a standard device in FUEGO en

- (5) Select OK

The screenshot shows the FUEGO web interface in a browser window. The URL is localhost:8080/fuego/computer/new. The interface includes logos for Cogent Embedded, The Linux Foundation, and Long Term Support Initiative. On the left sidebar, the 'Targets Status' tab is selected (1), and the 'New Node' button is highlighted (2). The main content area shows a form for adding a new node. The 'Node name' field is filled with 'salvator-X' (3). The 'Dumb Slave' option is selected. Below it, the 'Copy Existing Node' section is active, and the 'Copy from' dropdown is set to 'lager' (4). The 'OK' button is highlighted (5).

- (6) Directory of corresponding configuration file in overlay folder (e.g., board/renov
- (7) Select Save to save all settings

Nodes [Test Autom... x] salvator-X Configur... x

localhost:8080/fuego/computer/salvator-X/configure

Home nodes salvator-X

Back to List
Target Status
Delete Target
Configure Target
Test Run History
Load Statistics
Script Console
Log
System Information

Targets Status

#	Status

Name: salvator-X

Description:

of executors: 1

Remote FS root: /tmp/dev-slave1

Labels:

Usage: Utilize this target as much as possible

Launch method: Launch slave via execution of command on the Master

Launch command: java -jar /home/jenkins/slave.jar

Availability: Keep this slave on-line as much as possible

Node Properties

☒ Environment variables

List of key-value pairs

name	value
BOARD_OVERLAY	boards/renov... board salvator-X
DISTRIB	distrib/nologger.distrib

Add

☐ Tool Locations

Save

2. Add new tab (to manage TCs)

Due to a large number of TCs, they are divided into different groups (all, batch run, Benchmark). For example, to group all Linux TCs together, RVC created a new tab called Linux ST. Please

- (1) In Home page of TAF, click to "+" tab to add new tab

0. History [Test Aut... x]

localhost:8080/fuego/

COGENT EMBEDDED THE LINUX FOUNDATION LONG TERM SUPPORT INITIATIVE

Home

New Test
People
Test Run History
Edit Dashboard
Documentation
Manage Jenkins
Scripter

Test Automation Framework

0. History Benchmarks Functional Gen3 Gen3.alpha Gen3.alpha2 LinuxST all batch runs +

Latest tests runs

Test	Run	Time
LinuxST.SyncSource	#738	Jul 6, 2016 4:26:06 AM

Exclusion administration		LinuxST.SyncSource	#737	Jul 6, 2016 4:25:06 AM
Test Run Queue		LinuxST.SyncSource	#736	Jul 6, 2016 4:24:06 AM
No test runs in the queue.		LinuxST.SyncSource	#735	Jul 6, 2016 4:23:06 AM
Targets Status		LinuxST.SyncSource	#734	Jul 6, 2016 4:22:06 AM
#	Master	LinuxST.SyncSource	#733	Jul 6, 2016 4:21:06 AM
1	Idle	LinuxST.SyncSource	#732	Jul 6, 2016 4:20:06 AM
2	Idle	LinuxST.SyncSource	#731	Jul 6, 2016 4:19:06 AM
Alt6		LinuxST.SyncSource	#730	Jul 6, 2016 4:18:06 AM
1	Idle	LinuxST.SyncSource	#729	Jul 6, 2016 4:17:06 AM
lager		LinuxST.SyncSource	#728	Jul 6, 2016 4:16:06 AM
1	Idle	LinuxST.SyncSource	#727	Jul 6, 2016 4:15:06 AM
lager2		LinuxST.SyncSource	#726	Jul 6, 2016 4:14:06 AM
1	Idle	LinuxST.SyncSource	#725	Jul 6, 2016 4:13:06 AM
gemu-test-arm		LinuxST.SyncSource	#724	Jul 6, 2016 4:12:06 AM
1	Idle	LinuxST.SyncSource	#723	Jul 6, 2016 4:11:06 AM
salvator-X		LinuxST.SyncSource	#722	Jul 6, 2016 4:10:06 AM
1	Idle	LinuxST.SyncSource	#721	Jul 6, 2016 4:09:06 AM
template-dev				

(2) Name for tab (e.g. Linux ST) and select view type of tab:
(List View is recommend for simple list format of choice tests)

2

View name: LinuxST

- ☐ All
This view shows all the tests and test suites.
- ☐ Dashboard
Customizable view that contains various portlets containing information about your test(s)
- ☒ List View
Shows items in a simple list format. You can choose which tests are to be displayed in which view.
- ☐ Related Projects View
A view that allows you to display only those inheritable projects that are related in a certain way to one or more s transient or not.

OK

(3) Add description for tab and select available TCs that user want to include in ta

Edit Dashboard [Tes...]

localhost:8080/fuego/view/LinuxST/configure

View name: LinuxST

- ☐ All
This view shows all the tests and test suites.
- ☐ Dashboard
Customizable view that contains various portlets containing information about your test(s)
- ☒ List View
Shows items in a simple list format. You can choose which tests are to be displayed in which view.
- ☐ Related Projects View
A view that allows you to display only those inheritable projects that are related in a certain way to one or more s transient or not.

OK

1	Idle	qemu-test-arm
1	Idle	salvator-X
4	Idle	

3. Add an Linux TC to FUEGO environment

To embed the scripts of an Linux TC to FUEGO environment, do step-by-step as below picture

- (1) In web interface, select New Test option to create a new TC
- (2) Fill out TC name in Test name blank, this name must be same as the folder name
- (3) Copy available settings of existing test (e.g., Benchmark.bc)

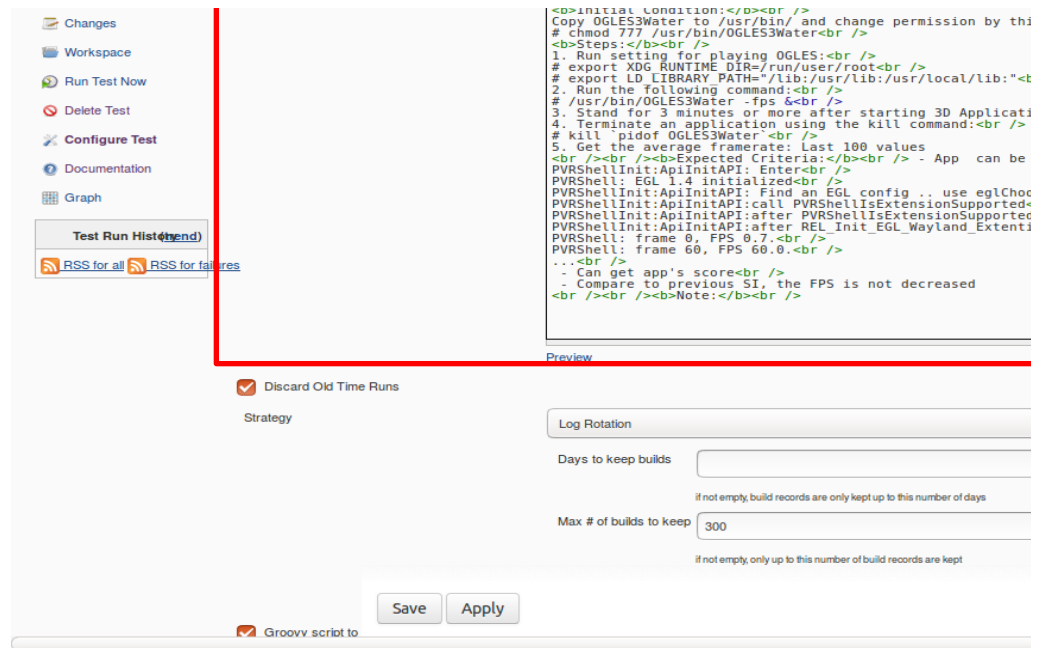
* **Benchmark.bc** is an available test that is implemented in original FUEGO environment

The screenshot shows the FUEGO web interface at localhost:8080/fuego/view/LinuxST/newJob. The interface includes logos for Cogent Embedded, The Linux Foundation, and Long Term Support Initiative. The left sidebar has a 'New Test' button highlighted with a red box and the number 1. The main area has a 'Test name' field with 'LinuxST.Benchmark.OGLES3Water' highlighted with a red box and the number 2. Below this, several test types are listed, with 'Copy existing Test' highlighted with a red box and the number 3. Under 'Copy existing Test', 'Benchmark.fio' is selected in the 'Copy from' dropdown.

- (4) Check TC name and Insert TC description into blank

The screenshot shows the FUEGO web interface at localhost:8080/fuego/view/LinuxST/job/LinuxST.Benchmark.OGLES3Water/configure. The interface includes the same logos as the previous screenshot. The left sidebar has a 'Back to Dashboard' button and a 'Status' button. The main area has a 'Project name' field with 'LinuxST.Benchmark.OGLES3Water' and a 'Description' field with 'OGLES3Water

Initial Condition' highlighted with a red box and the number 4.



(5) (6) (7) (8) (9) are the options that appear on the test execution interface (3rd re

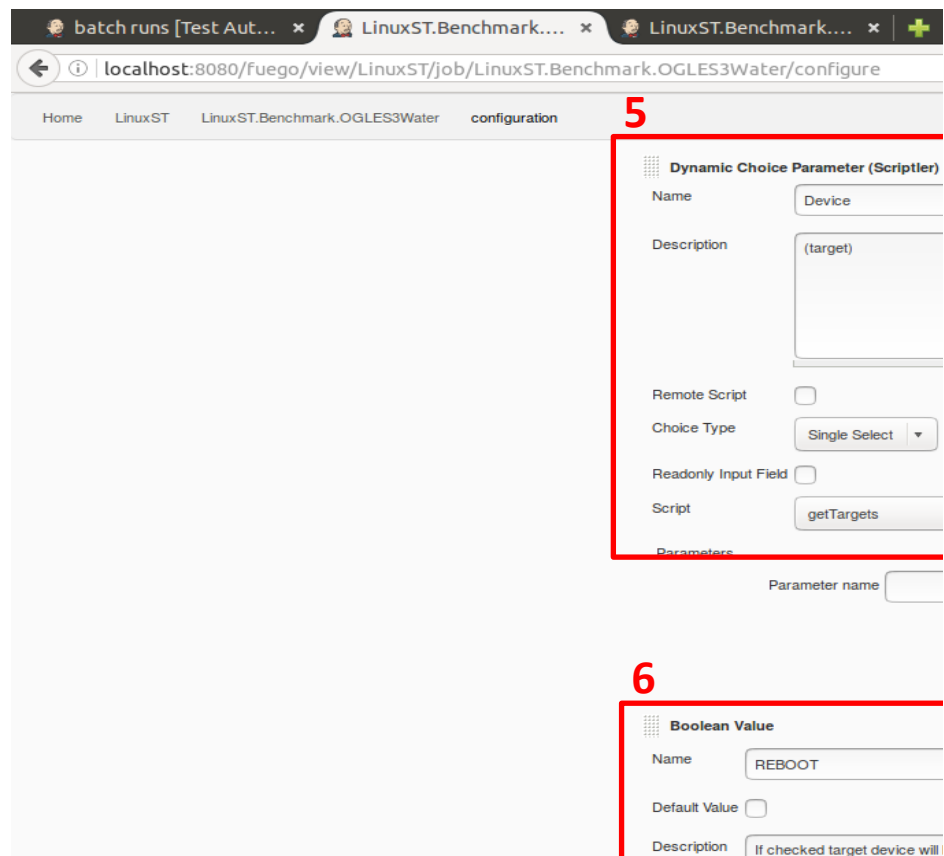
* Upper case and lower case are distinguished

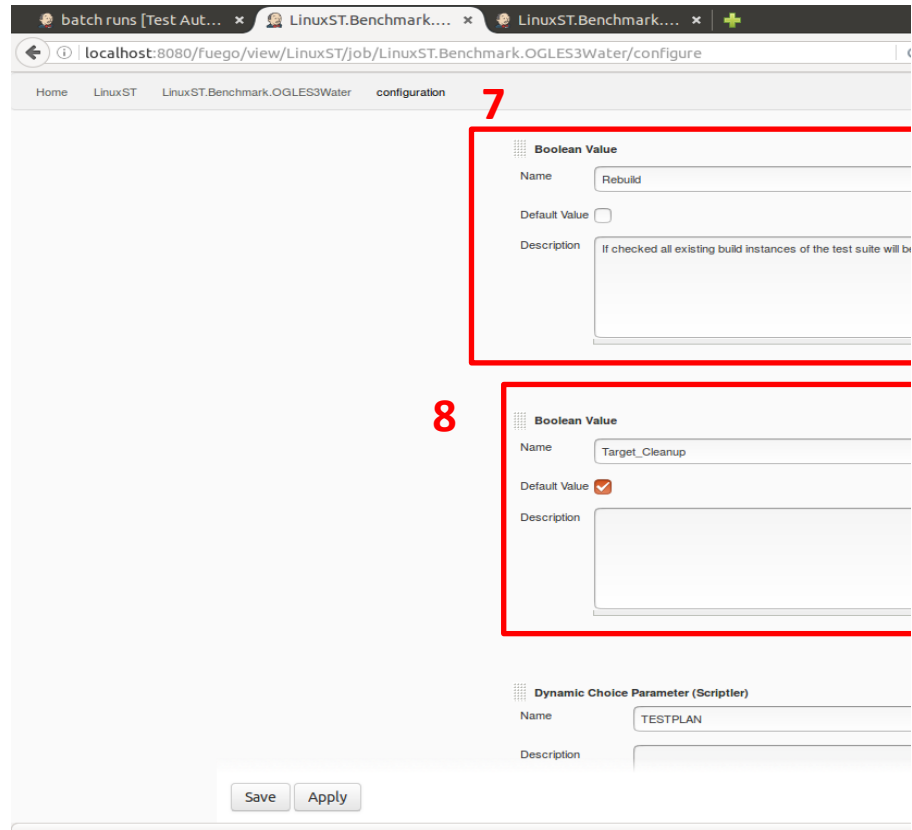
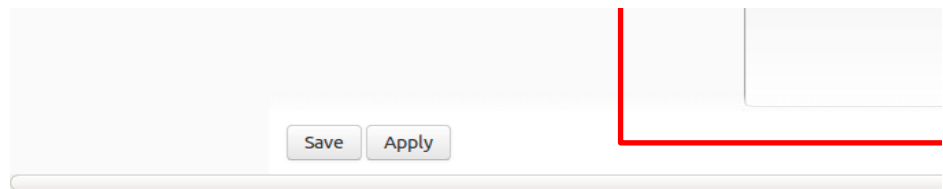
(5) Device - single select box to select the target device (e.g. koelsch)

(6) Reboot - check box to reboot target device before running test

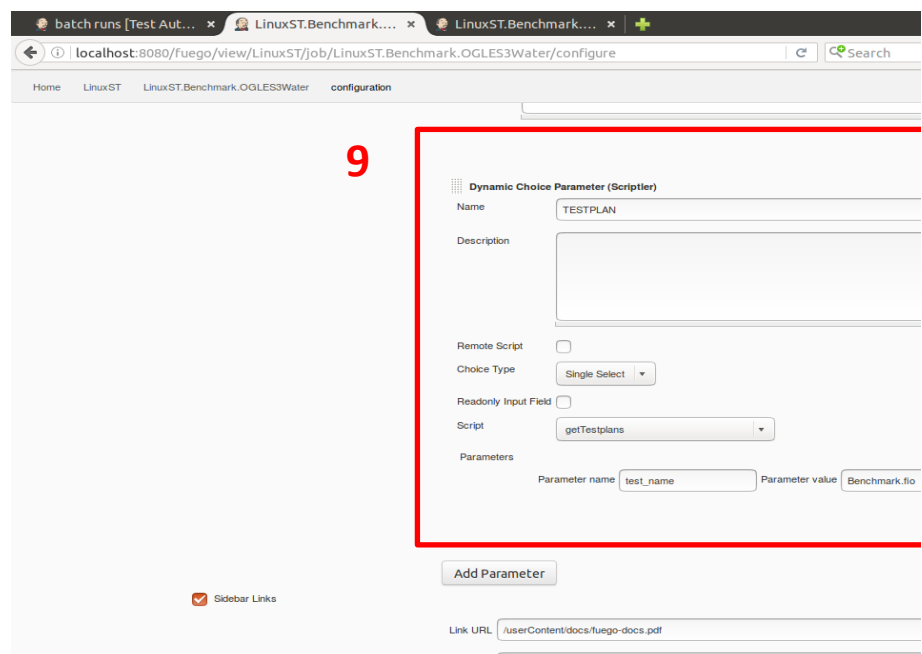
(7) Rebuild - check box to rebuild test suite from tarball (device_script.

(8) Target_Cleanup - check box to clean all old log file in target board





(9) Test plan: Delete this field, currently not used.



Link Text | Documentation

Save Apply

(10) Enter Repository URL and Local directory

LinuxST[Test Auto... x LinuxST.Benchmark.... x +

localhost:8080/fuego/view/LinuxST/job/LinuxST.Benchmark.OGLES3Water/configure

Home LinuxST LinuxST.Benchmark.OGLES3Water configuration

Source Code Management

☐ CVS

☐ Git

☐ None

☒ Subversion

Modules Repository URL svn://192.168.5.1

Local module directory (optional) ../../\$FUEGO

Repository depth infinity

Ignore externals ☒

Check-out Strategy Use 'svn update' as much as possible

Repository browser (Auto)

Test Run Triggers

☐ Run after other tests are finished

☐ Build periodically

Save Apply

1

(11) Test Run - adjust to execute test (host_script.sh)

"#!/bin/bash" need to be added into the beginning of Execute shell if it

batch runs[Test Aut... x LinuxST.Benchmark.... x LinuxST.Benchmark.... x +

localhost:8080/fuego/view/LinuxST/job/LinuxST.Benchmark.OGLES3Water/configure

Screenshot LinuxST.Benchmark.OGLES3Water configuration

Fail the build ☐

Writing the build description ☐

☒ Add resource to manage exclusion

Name \$JOB_NAME

Add

☐ Set environment variables through a file

Test Run

11

Execute shell

Command

```
#!/bin/bash
if [ ! -d "$FUEGO_LOGS_PATH/$JOB_NAME" ]; then mkdir -p "$FUEGO_LOGS_PATH/$JOB_NAME/last_us
echo $TESTPLAN >$FUEGO_LOGS_PATH/$JOB_NAME/last_us
TESTPLAN=$(cat $FUEGO_LOGS_PATH/$JOB_NAME/last_us)
source $FUEGO_TESTS_PATH/$JOB_NAME/host_script.sh
```

See [the list of available environment variables](#)

Add test execution step

Post-test actions.

Flot Publisher

Save Apply

(12)(13)(14)(15) Post-tests actions - delete these actions (currently not s
(16) Save changes of test case.

batch runs [Test Aut... x LinuxST.Benchmark.... x LinuxST.Benchmark.... x

localhost:8080/fuego/view/LinuxST/job/LinuxST.Benchmark.OGLES3Water/configure

Home LinuxST LinuxST.Benchmark.OGLES3Water configuration

Add test execution step

Post-test actions.

Flot Publisher

Set build description

Regular expression

DescriptionFlexible IO Tester, file system benchmark.

batch runs [Test Aut... x LinuxST.Benchmark.... x LinuxST.Benchmark.... x

localhost:8080/fuego/view/LinuxST/job/LinuxST.Benchmark.OGLES3Water/configure

Home LinuxST LinuxST.Benchmark.OGLES3Water configuration

Post build task

Tasks

Log textssh

Operation-- AND --Delete Log Text

Add

Script

```
source $FUEGO_SCRIPTS_PATH/functions.sh;
post_test $TESTDIR fio
```

Run script only if all previous steps were successful ☐

Escalate script execution status to job status ☒

Add another task

Groovy Postbuild

Groovy script:

```
Binding binding = new Binding();
binding.setVariable("manager", manager);
GroovyShell shell = new GroovyShell(binding);
shell.evaluate(new File("/home/jenkins/scripts/postbuild.groovy").text);
```

If the script fails: Do nothing

16

Save Apply

Step 5 Execute TC and get the result

NOTE:

- At first, should run test case **"LinuxST.First_TC.Install_Applications"** to install all of ne
- => Not need to run this Test Case if:
 - + All of applications/libraries have already been installed on target boar
 - + The User just want to install manually for some specific apps/libs

1. Execute 1 TC

Select a TC and Target device to execute test:

- (1) Select TC to be executed
- (2) Select Run test now
- (3) Select target board and options for TC (all options should be selected)
 - _Device (mandatory): select the target device (e.g. koelsch)
 - _REBOOT (recommendation) reboot target device before running test
 - _Rebuild (recommendation): rebuild test suite from tarball. If test suite
 - _Target_Cleanup (mandatory): clean all old log file in target board
 - _Run Test: execute test (run host_script.sh)



The screenshot shows the LinuxST interface. On the left, a sidebar contains icons for 'Changes', 'Workspace', 'Run Test Now' (highlighted with a red box and number 2), 'Delete Test', 'Configure Test', 'Documentation', and 'Graph'. Below this is a 'Test Run History' table with columns for test ID, status, and timestamp. The table lists tests from #48 to #61. On the right, a configuration panel (highlighted with a red box and number 3) shows settings for 'Device' (salvator-X), 'REBOOT' (unchecked), 'Rebuild' (checked), and 'Target_Cleanup' (checked). A 'Run test' button is at the bottom of this panel.

(4) (5) Show log of executed TC

The screenshot shows the LinuxST web interface. The top navigation bar includes 'Home', 'LinuxST', and 'LinuxST.Benchmark.OGLES3Navigation3D'. The main content area displays the 'Project LinuxST.Benchmark.OGLES3Navigation3D' details, including 'Initial Condition' and 'Steps'. A 'Test Run History' table (highlighted with a red box and number 4) lists tests from #50 to #62. The 'Console Output' button (highlighted with a red box and number 5) is visible. The console output shows the execution of the 'OGLES3Navigation3D' test, including the command 'chmod 777 /usr/bin/OGLES3Navigation3D' and the results of the test.

The screenshot shows the Fuego Test Automation Framework interface. On the left is a sidebar with navigation links: New Test, People, Test Run History, Edit Dashboard, Delete Dashboard, Documentation, Manage Jenkins, Scriptler, and Exclusion administration. Below this is the 'Test Run Queue' section, which is currently empty. The main area is titled 'Test Automation Framework' and displays a table of test results for the 'LinuxST' target.

S	W	Name	Status
Green	Sun	LinuxST.Benchmark.flo	Pass
Green	Cloud	LinuxST.Benchmark.gimark2_2014	
Green	Cloud	LinuxST.Benchmark.iozone	
Green	Sun	LinuxST.Benchmark.lmbench	
Green	Sun	LinuxST.Benchmark.memtester	
Red	Cloud	LinuxST.Benchmark.nbench	Fail
Green	Sun	LinuxST.Benchmark.OGLES2DeferredShading	
Green	Cloud	LinuxST.Benchmark.OGLES3ColourGrading	
Green	Sun	LinuxST.Benchmark.OGLES3Navigation3D	
Green	Cloud	LinuxST.Benchmark.OGLES3Water	
Grey		LinuxST.Conflict2Driver.DeleteFromMMC.WriteToNFS	Abort
Grey		LinuxST.Conflict2Driver.DeleteFromMMC.WriteToSATA_HDD	
Grey		LinuxST.Conflict2Driver.DeleteFromMMC.WriteToSDCard	
Grey		LinuxST.Conflict2Driver.DeleteFromMMC.WriteToUSB20	
Grey		LinuxST.Conflict2Driver.DeleteFromMMC.WriteToUSB30	
Grey		LinuxST.Conflict2Driver.DeleteFromMMC.WriteViaPCIe	

2. Execute many TCs

Run available TC "Run SELECTED tests on SELECTED target" in "batch runs" tab to execute. This special TC allows to run many selected TCs, it means that users have to select TCs that they want to run. Before running, reconfig TC as below:

- (0) Changing Reboot parameter into REBOOT to support reboot function when start
- (1) Adding #!/bin/bash into Execute shell to support bash shell

The screenshot shows the 'batch runs' configuration page for the job 'Run SELECTED tests on SELECTED targets'. The page has a breadcrumb trail: Home > batch runs > Run SELECTED tests on SELECTED targets > configuration. There are several configuration options:

- ☒ Block until the triggered projects finish their builds
- Mark this build as unstable if the triggered build is worse or equal to: UNSTABLE
- Mark this build as failure if the triggered build is worse or equal to: FAILURE

Below these options is a section titled 'Predefined parameters' with a list of parameters:

- Device=\${Target}
- Rebuild=\${Rebuild_test}
- Target_Cleanup=\${Cleanup_target}
- REBOOT=\${Reboot_target}
- BATCH_TESTPLAN=testplans/\${BATCH_TESTPLAN}.json
- LOGRUN_FILE=\${BUILD_ID}.\${BUILD_NUMBER}.json

The 'REBOOT' parameter is highlighted with a red box. At the bottom of the configuration page is an 'Add Parameters' button.

Add test execution step

Post-test actions.

Aggregate downstream test results

☒ Automatically aggregate all downstream tests

☒ Include failed builds in results

Save Apply

batch runs [Test Aut... x Run SELECTED tests ... x +

localhost:8080/fuego/view/batch runs/job/Run SELECTED tests on SELECTED targets/configure

Home batch runs Run SELECTED tests on SELECTED targets configuration

☒ Automatically aggregate all downstream tests

☒ Include failed builds in results

Execute a set of scripts

Batch or a shell script files to execute

Add a shell or a Windows batch file

Groovy script files to evaluate

Add a Groovy script file to evaluate

Groovy script content to evaluate

Add a Groovy script content to evaluate

Build steps

1

Execute shell

Command

```
#!/bin/bash
Target=$(echo ${Targets} | awk -F " " '{print $1}')
Device=${Target}
Rebuild=${Rebuild_test}
Target_Cleanup=${Cleanup_target}
REBOOT=${Reboot_target}
if [ ! -d "$FUEGO_LOGS_PATH/$JOB_NAME" ]; then mkdir -p "$FUEGO_LOGS_PATH/$JOB_NAME" && echo "${BATCH_TESTPLAN}" > "$FUEGO_LOGS_PATH/$JOB_NAME/last_used_$LOGRUN_FILE=${BUILD_ID}.${BUILD_NUMBER}.log" && source "$FUEGO_SCRIPTS_PATH/reports.sh" && gen_report
```

See the list of available environment variables

Save Apply

Running test procedure:

- (2) Select batch runs
- (3) Select TC "Run SELECTED tests on SELECTED target"
- (4) Select Run Test Now to execute test
- (5) Select target board, TCs that users want to run, other properties (rebuild, reboot)
- (6) Value test results

New Test

People

Test Run History

Edit Dashboard

Documentation

Manage Jenkins

Scripter

Exclusion administration

Exclusion administration

Test Run Queue

No test runs in the queue.

Targets Status

#	Master
1	Idle
2	Idle
Alt6	
1	Idle
lager	
1	Idle
lager2	
1	Idle
qemu-test-arm	
1	Idle
salvator-X	

Test Automation Framework

0. History

Benchmarks

Functional

Gen3

Gen3.alpha

Gen3.alpha2

LinuxST

batch runs

+

Name ↓

Run ALL tests on ALL targets

Run ALL tests on SELECTED targets

Run SELECTED tests on SELECTED targets

icon: S M L

Legend

Running test:

batch runs [Test Aut... x] Test Automation Fr... x

localhost:8080/fuego/view/batch runs/job/Run SELECTED tests on SELECTED targets/build?delay=0sec

Search

COGENT EMBEDDED

THE LINUX FOUNDATION

LONG TERM SUPPORT INITIATIVE

RENESAS

Home

batch runs

Run SELECTED tests on SELECTED targets

Back to Dashboard

Status

Changes

Workspace

Run Test Now

Delete Test

Configure Test

Documentation

Test Run History

(trend)

RSS for all

RSS for failures

Project Run SELECTED tests on SELECTED targets

This test run requires parameters:

Targets

☐ template-dev
☐ qemu-test-arm
☐ lager
☐ lager2
☐ Alt6
☒ salvator-X

Select target(s) to run tests on

Tests

LinuxST.Function.Video.Gst_VC1_MP_LM_720x576_25p_10Mbps
LinuxST.Function.Video.Gst_VC1_SP_LL_176x144_15p_96kbps
LinuxST.Function.Video.Gst_VC1_SP_LM_240x176_30p_384kbps
LinuxST.Function.Video.Gst_VC1_SP_LM_352x288_15p_384kbps
LinuxST.Function.Video.Gst_VP8_1024x768_30p_2000kbps
LinuxST.Function.Video.Gst_VP8_1024x768_30p_4000kbps
LinuxST.Function.Video.Gst_VP8_1280x720_30p_10000kbps
LinuxST.Function.Video.Gst_VP8_1280x720_30p_14000kbps
LinuxST.Function.Video.Gst_VP8_1920x1080_30p_20000kbps
LinuxST.Function.Video.Gst_VP8_1920x1080_30p_30000kbps

Rebuild_test

☒ true

Reboot_target

☒ true

Cleanup_target

☒ true

BATCH_TESTPLAN

format

Run test

Gen3 [Test Automat... x] LinuxST.Benchmark.... x Run SELECTED tests ... x

localhost:8080/fuego/view/batch runs/job/Run SELECTED tests on SELECTED targets/ Search

COGENTEMBEDDED THE LINUX FOUNDATION LONG TERM SUPPORT INITIATIVE RENESAS

Home batch runs Run SELECTED tests on SELECTED targets

Project Run SELECTED tests on SELECTED targets

fail **pass**

Configurations

- Test=LinuxST.Benchmark.memtester
- Test=LinuxST.Benchmark.nben
- Test=LinuxST.Benchmark.OGLES2DeferredShadi

Test=LinuxST.CommunicDriver.DeleteFromSDCard.WriteToMMC

Test Run History (trend)

- #2 Jul 6, 2016 11:27:09 AM
- #1 Jul 6, 2016 11:26:08 AM

RSS for all RSS for failures

Page generated: Jul 6, 2016

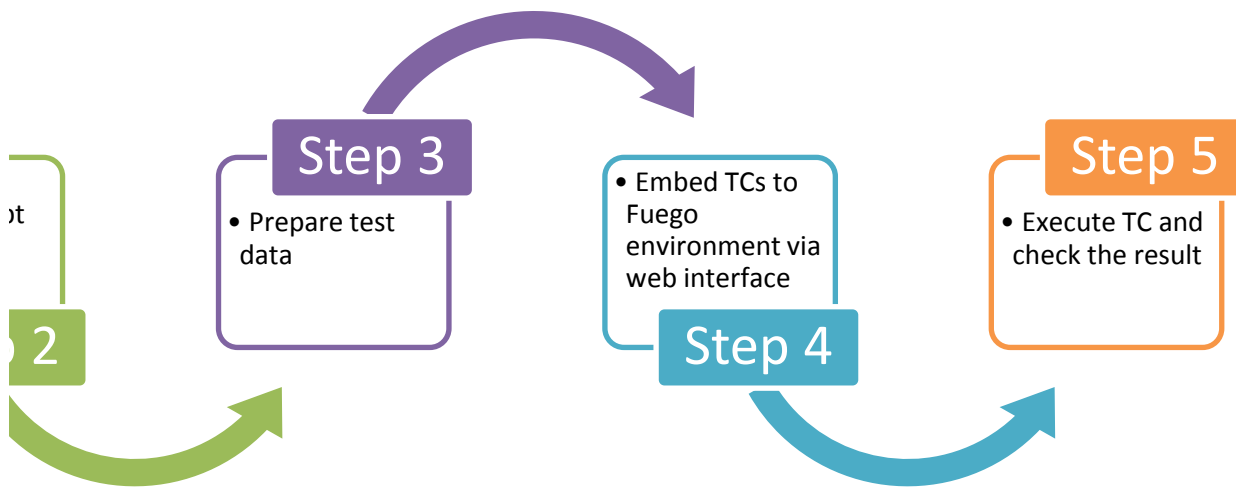
eFromSDCard.WriteToMMC Highlight All Match Case 1 of 2 matches

Restriction:

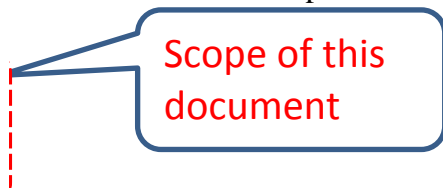
Now, preparing data has to do manually and take a lot of time, RVC will improve by making

MANUALLY

ernal



ment first. Three main processes are listed as below:



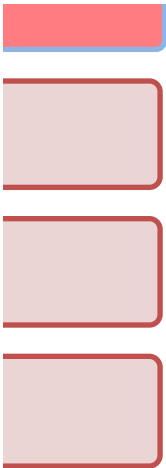
d/fuego/

FUEGO environment

ux TC scripts into Linux FUEGO environment only

linux_FUEGO_TC_Script_YYYYMMDD.zip ” (assumption that file is downloaded to /home/ directory)



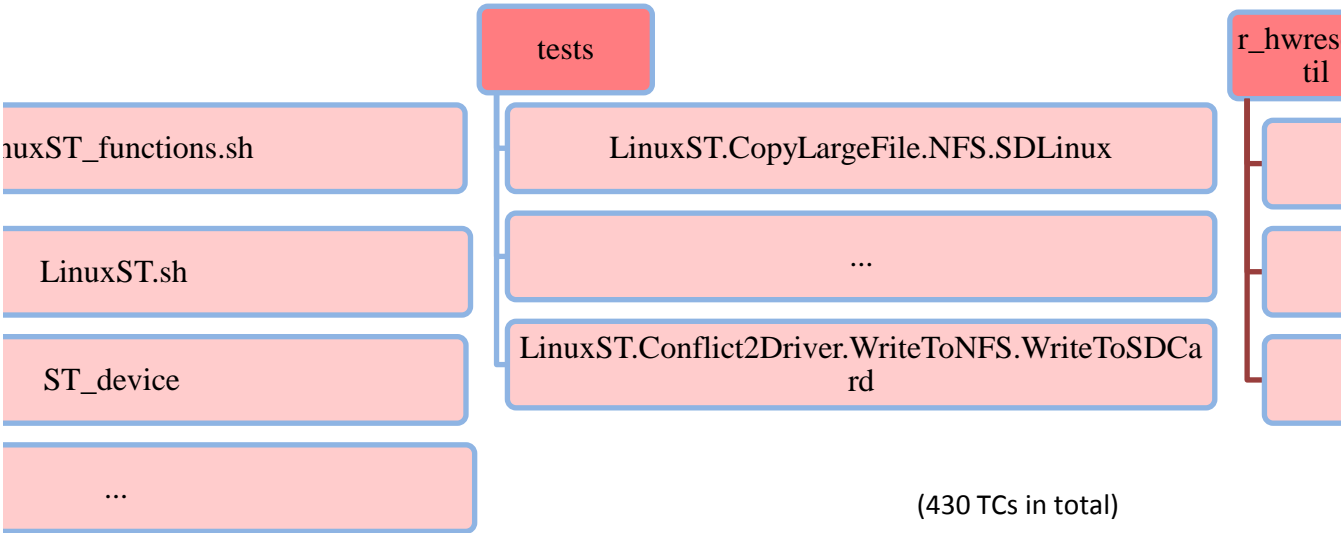


uting TCs

pt_YYYYMMDD
ler with zipped data (/tftpboot/):

C_Script_YYYYMMDD.zip

s: overlays, scripts, tests and r_hwreset_util



43, R-CarE2X)

C recommend 2 approaches:

3GO env. by the one in downloaded package (Linux_FUEGO_TC_Script_YYYYMMDD/scripts/LinuxS
package

as device_script.sh

s:

rary if necessary to execute TC on target device

s which are modified or created by RVC. Other remined FUEGO files are not included in the package.

o_script

ing

be prepared for each device:

rocedure in TCs_summary sheet. Detail information can be found in Linux_SystemTest_Spec_Gen
rice

below on NFS:

YYYYMMDD/Others/Data_Creation_Scripts/ on Host PC to create transferred files easily

h script is used to create transferred data

UTGOING/

o eMMC), make5file500MB.sh script is used to create transferred data

UTG/

UTGOING/

script is used to create transferred data

UTGOING/ which have + file size from 10MB to 100MB

+ 10 files for each file size

+ jump step is 10MB

prepared for each device:

TCs_summary sheet. Detail information can be found in Linux_SystemTest_Spec_Gen3_ver3.x.xls

SDCard data must be prepared as below on NFS:

Index sheet for prepare applications

	E2X (Guideline's link)
	Same as Gen3
	Axistat
	Same as Gen3
	Same as Gen3
	Same as Gen3
	Same as Gen3
	Same as Gen3
	Same as Gen3
	Lack of application.
	Lack of application
to build and	Refer to Implementation_Spec_TAF_LinuxST_v1.3.doc for build and installation (part 1.4.2)

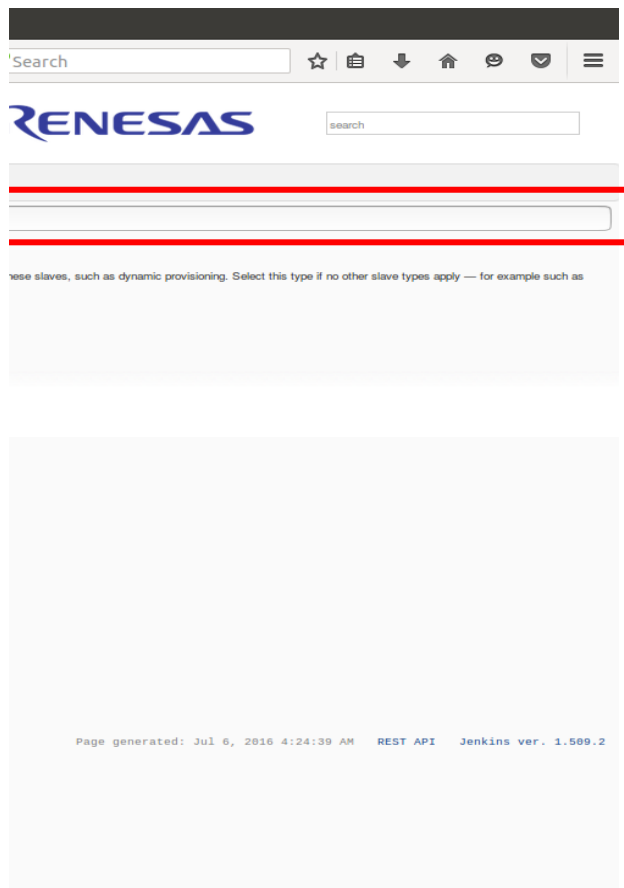
semi-automation TCs, data could be copied each time before executing.

Please check Pre-execution_Requirement for more information about prepare data before executing

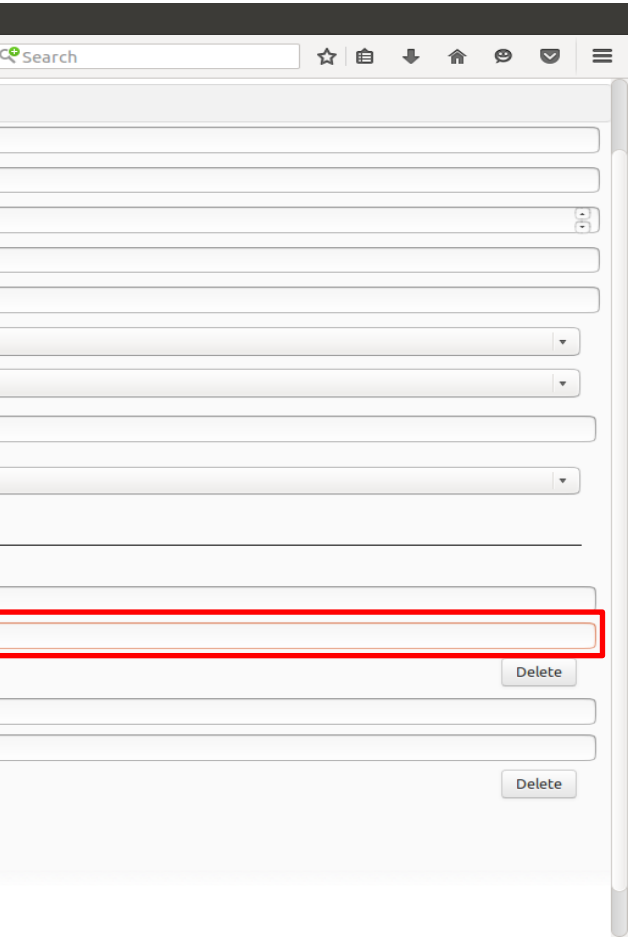
means nothing if they are not embedded to FUEGO environment via web interface.
board are embedded to FUEGO environment as below 3 steps (please focus on red zone):

web interface)
configuration file, add it as a new node in FUEGO web interface:

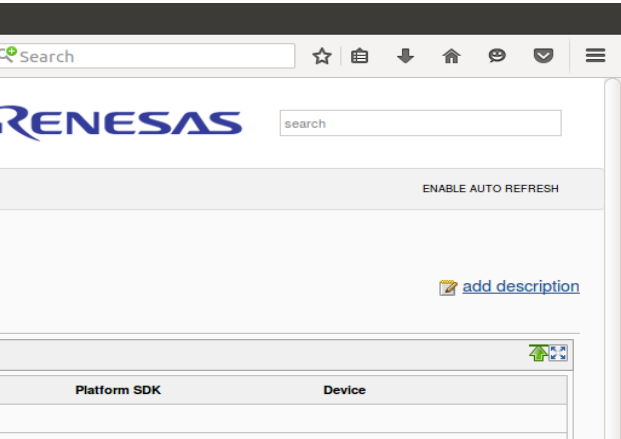
environment (Jul 31, 2014)

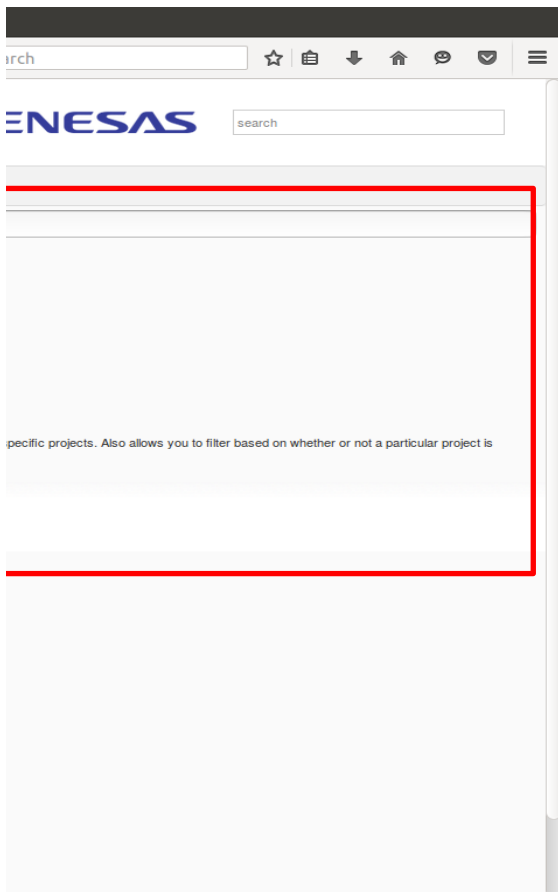
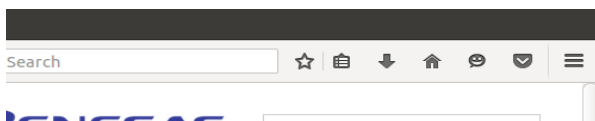


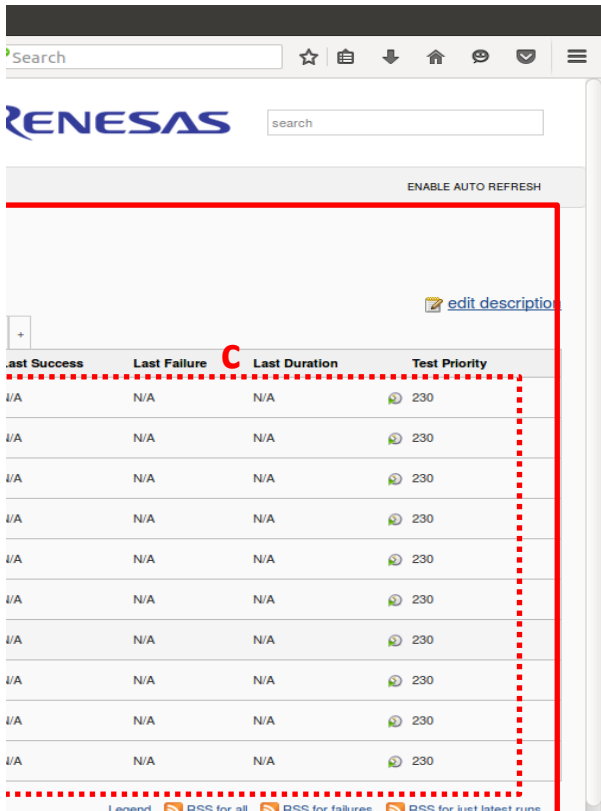
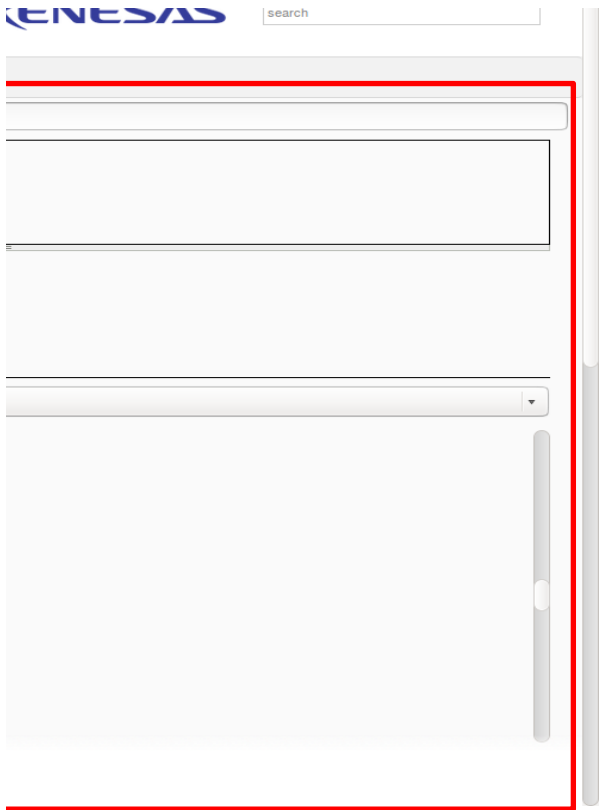
esas.board.salvator-X)



arks, Android ST, Linux ST,...) to manage. Tab concept is the name of group
e refer to below guideline to create the Linux ST tab:



**b**

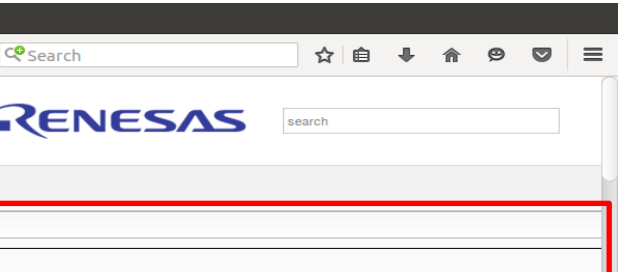
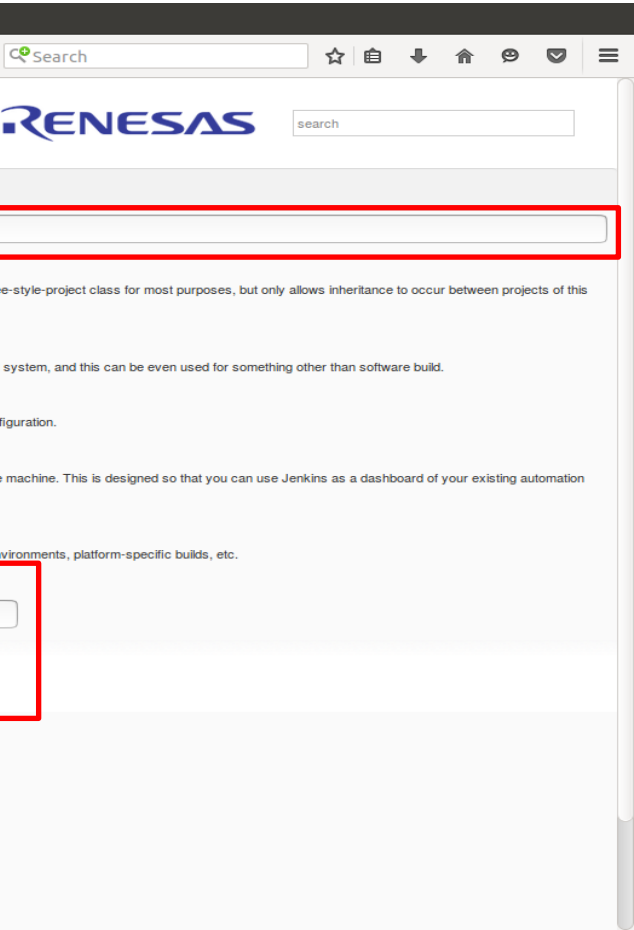




res:

me of TC scripts

onment



```
is command:<br />

br />

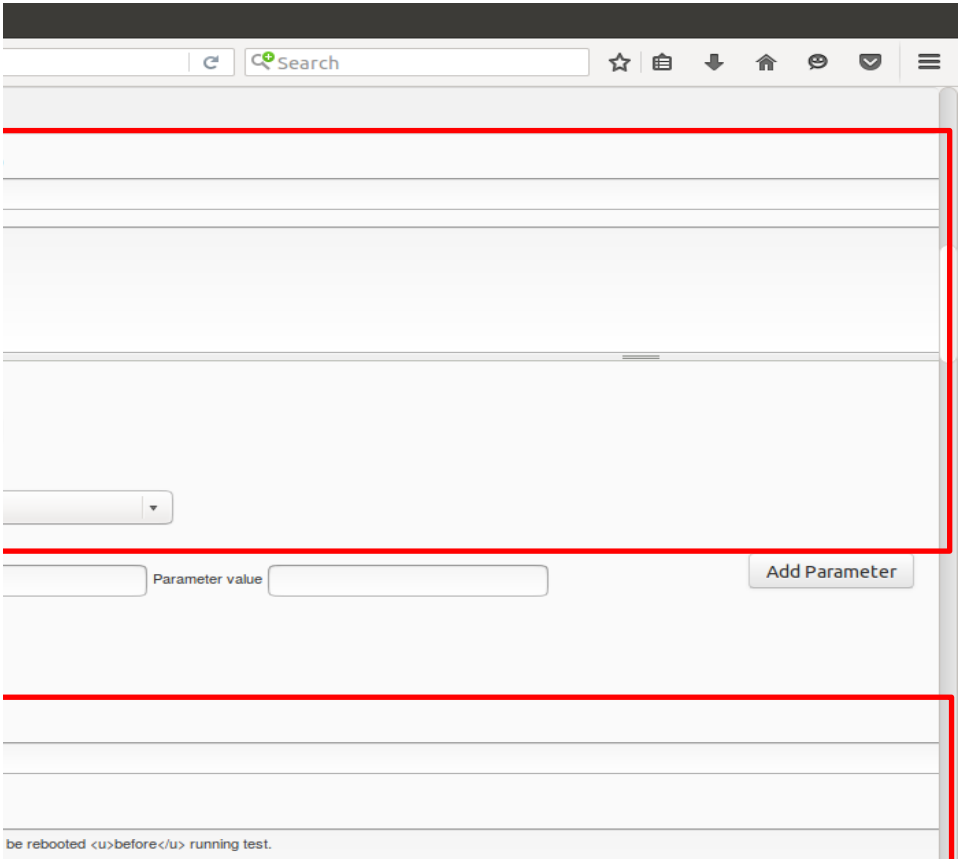
ion.<br />

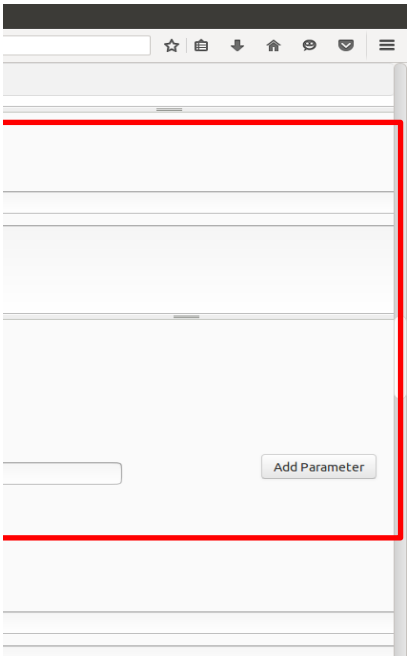
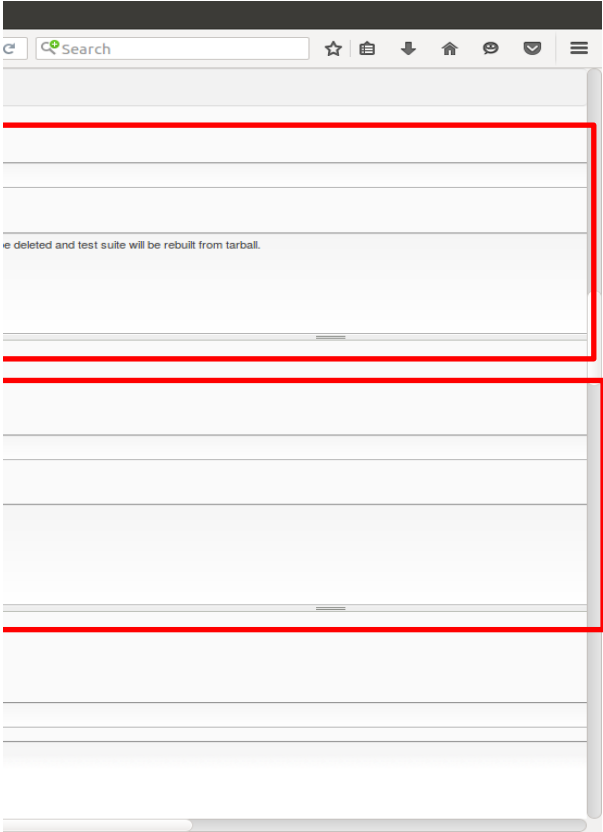
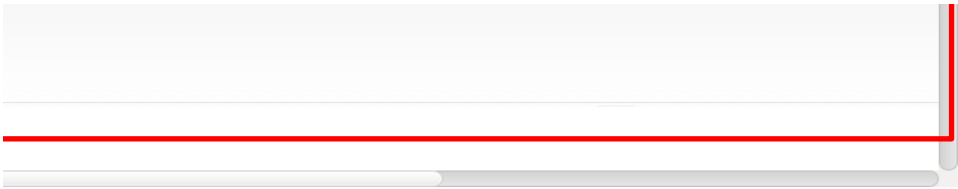
displayed on screen to the end without error, noise or blink and can be

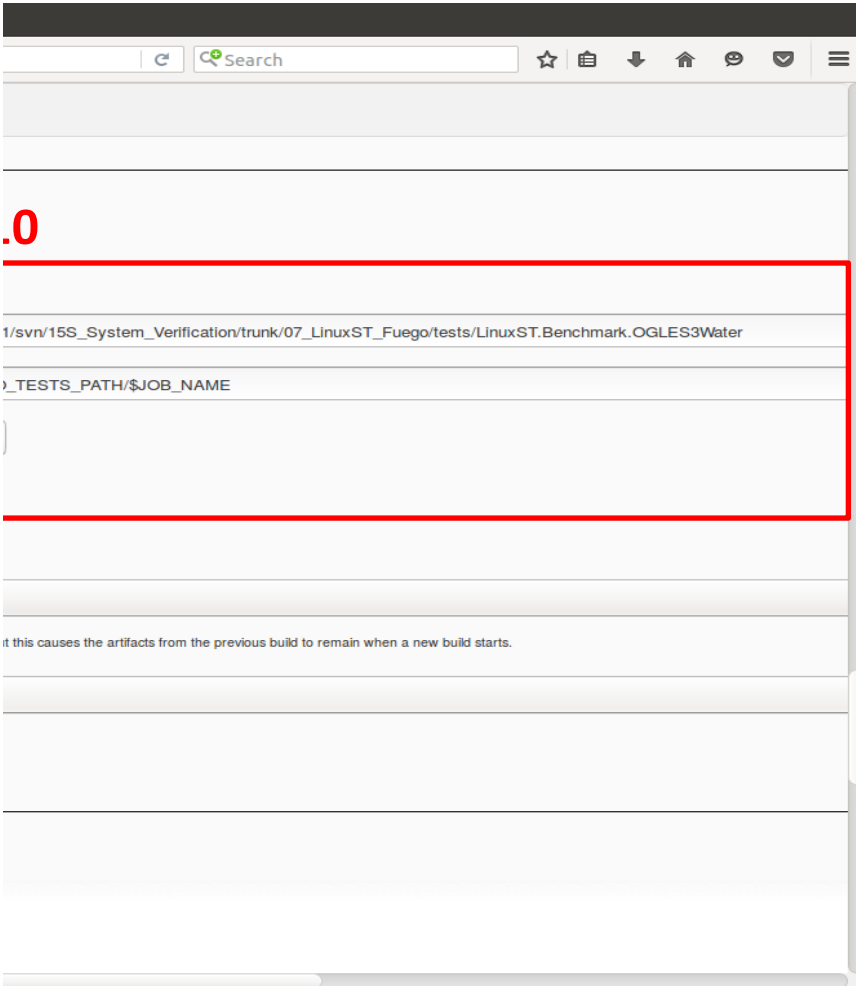
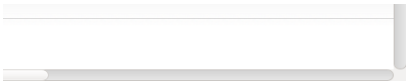
oseConfig()<br />
<br />
d<br />
ion<br />
```

and zone in step 5)

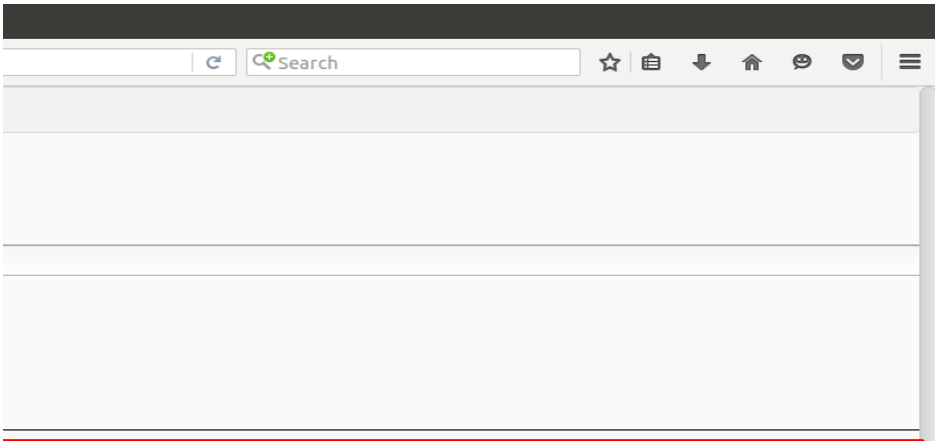
.sh compression)

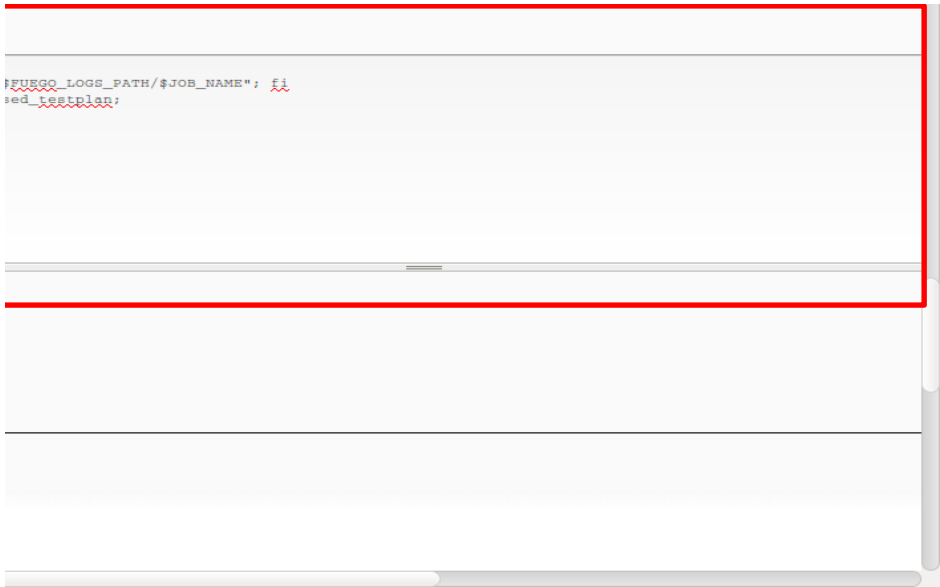




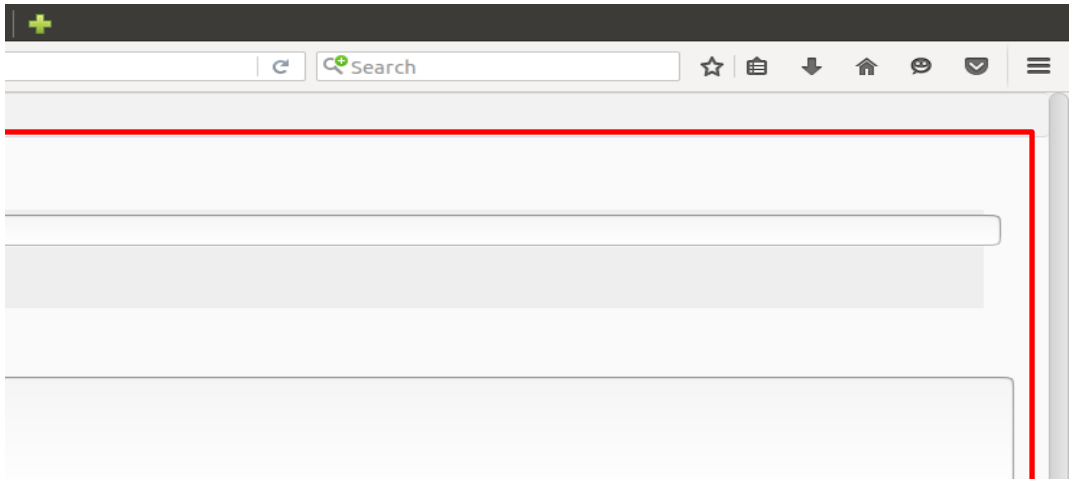
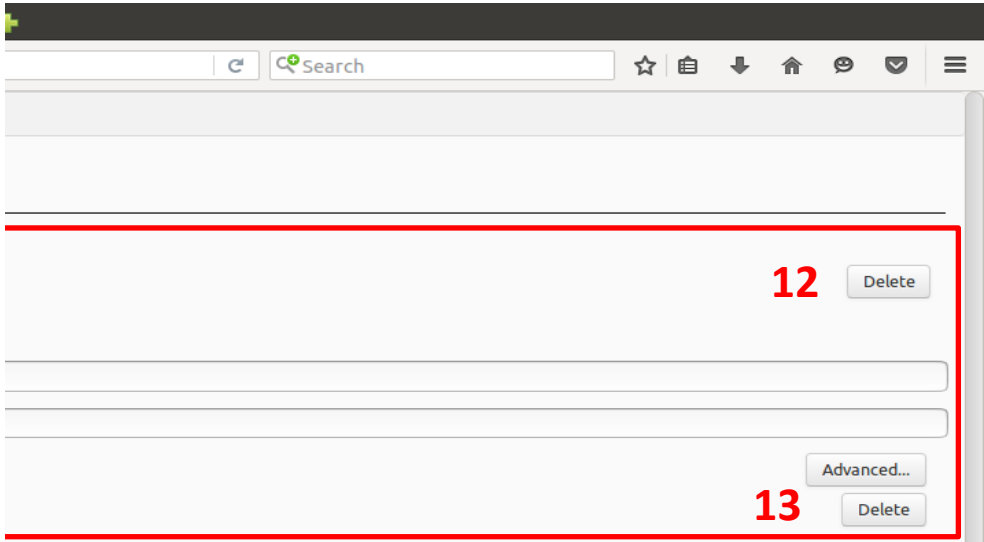


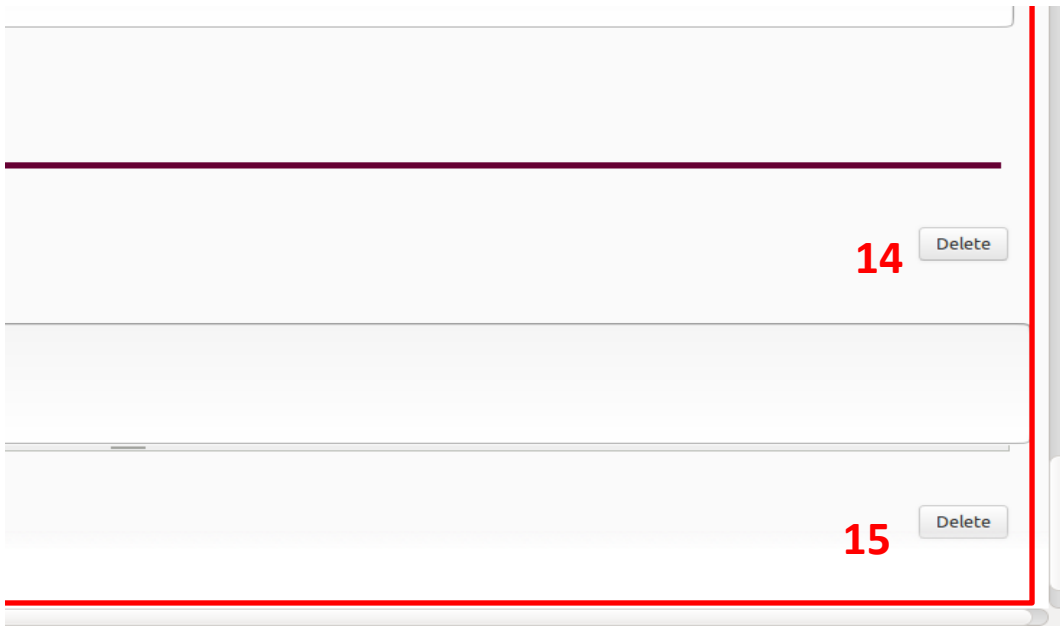
hasn't had yet. Linux FUEGO TCs is based on bash shell, so this line of script is compulsory





supported)

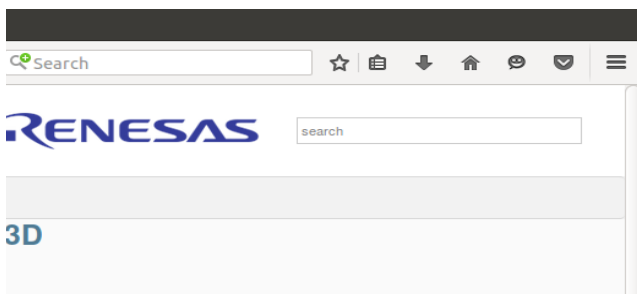


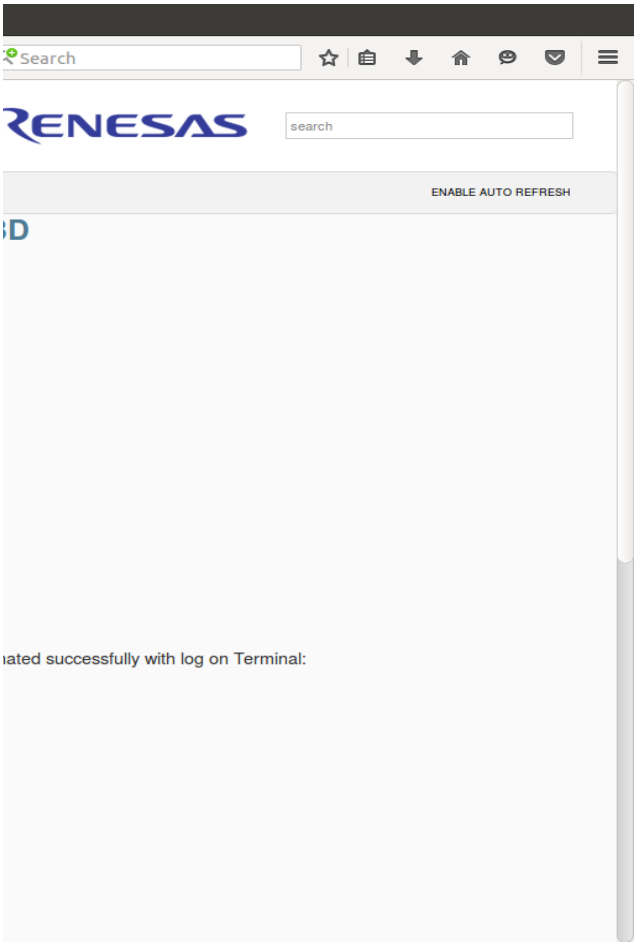
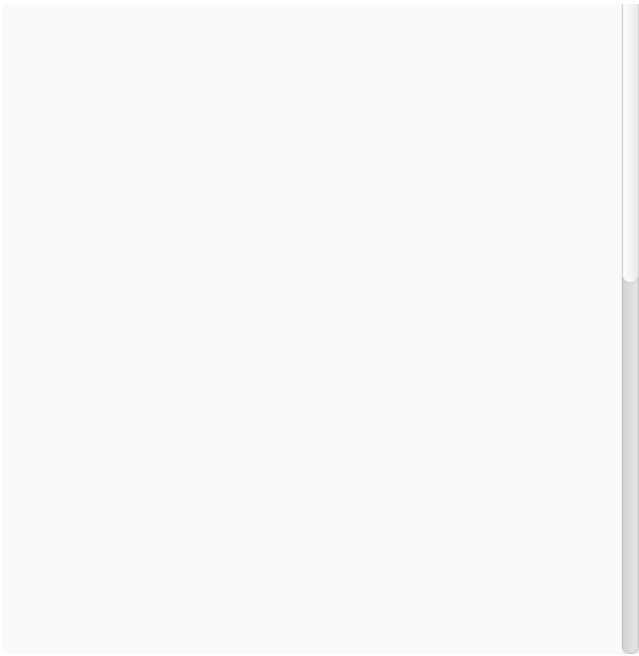


necessary applications/libraries onto Target board automatically before executing other TCs

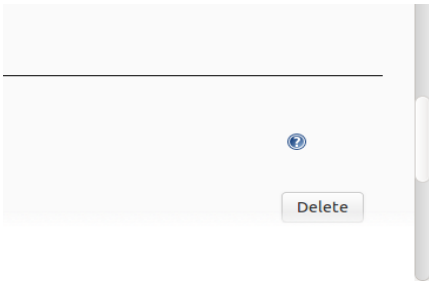
urd

was modified, please check this option to apply the modifies

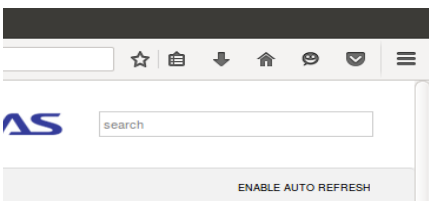




[illegible]

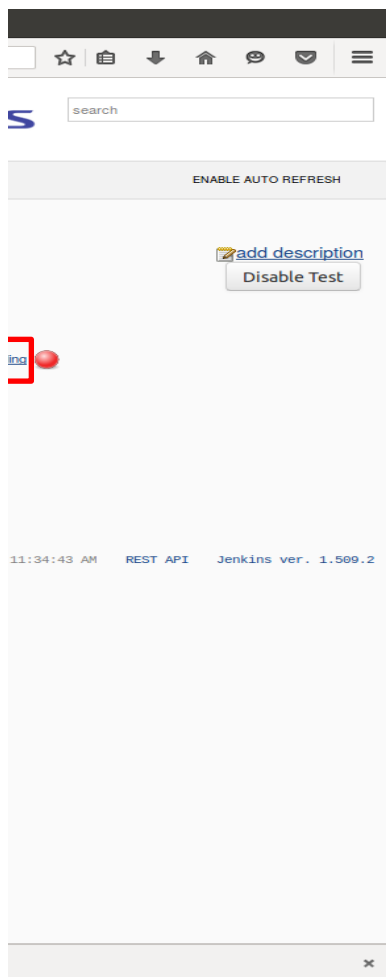


ot, clean-up) and Run Test



 [add description](#)

 [RSS for all](#)  [RSS for failures](#)  [RSS for just latest runs](#)



script to prepare data in device later

—

—

et_u

src

makefile

r_hwreset_util

ST_function.sh)

13_ver3.x.xls

m

—

