# Summary

This document introduces how to perform LSB test on target.

# Definitions

PC\$: The prompt of the host PC-Linux with normal user privilege

- PC#: The prompt of the host PC-Linux with root user privilege
- TGT#: The prompt of the target system with root user privilege

### Step 1: Get the LSB test suite

You can get the LSB test suite from the following link:

http://ftp.linuxfoundation.org/pub/lsb/

The latest version is 4.1.0.

We will perform LSB on ia32,  $x86_{64}$  and ppc32 architecture. So we need to download these files:

http://ftp.linuxfoundation.org/pub/lsb/bundles/released-4.1.0/dist-testkit/lsb-dist-testkit-4.1.0-5.\$ {ARCH}.tar.gz

http://ftp.linux-foundation.org/pub/lsb/lsbdev/released-4.1.0/binary/\${ARCH}/lsb-xdg-utils-4.0.0-2.\${ARCH}.rpm

http://ftp.linux-foundation.org/pub/lsb/app-battery/released-4.1.0/\${ARCH}/lsb-apache-2.2.14-3.lsb4.\${ARCH}.rpm

http://ftp.linux-foundation.org/pub/lsb/app-battery/released-4.1.0/\${ARCH}/lsb-tcl-8.5.7-6.lsb4.\${ARCH}.rpm

http://ftp.linux-foundation.org/pub/lsb/app-battery/released-4.1.0/\${ARCH}/lsb-expect-5.43.0-11.lsb4.\${ARCH}.rpm

http://ftp.linux-foundation.org/pub/lsb/app-battery/released-4.1.0/\${ARCH}/lsbgroff-1.20.1-5.lsb4.\${ARCH}.rpm

http://ftp.linux-foundation.org/pub/lsb/app-battery/released-4.1.0/\${ARCH}/lsb-raptor-1.4.19-3.lsb4.\${ARCH}.rpm

http://ftp.linux-foundation.org/pub/lsb/app-battery/released-4.1.0/\${ARCH}/lsb-xpdf-1.01-10.lsb4.\${ARCH}.rpm

http://ftp.linux-foundation.org/pub/lsb/app-battery/released-4.1.0/\${ARCH}/lsb-samba-3.4.3-5.lsb4.\${ARCH}.rpm

http://ftp.linux-foundation.org/pub/lsb/app-battery/released-4.1.0/\${ARCH}/lsb-rsync-3.0.6-3.lsb4.\${ARCH}.rpm

If your target machine can not access Internet, you also need to download these files:

http://ftp.linuxfoundation.org/pub/lsb/snapshots/appbat/tests/expect-tests.tar http://ftp.linuxfoundation.org/pub/lsb/snapshots/appbat/tests/tcl-tests.tar http://ftp.linuxfoundation.org/pub/lsb/snapshots/appbat/tests/raptor-tests.tar http://ftp.linuxfoundation.org/pub/lsb/snapshots/appbat/tests/test1.pdf http://ftp.linuxfoundation.org/pub/lsb/snapshots/appbat/tests/test2.pdf

If your target machine can access Internet, you don't need to do this. It can be

downloaded from Internet automatically during LSB installation.

# Step 2: Get the poky-image-lsb-sdk-rootfs

Download the poky-image-lsb-sdk-rootfs tarball, modules tarball and kernel image from autobuilder: <u>http://autobuilder.yoctoproject.org</u>

# Step 3: Create a qemu image

With qemu, since running LSB need lots of disk space, so we need to create a 8GB lsb-sdk image. If you are running LSB on a real hardware, just skip this step. PC\$ dd if=/dev/zero of=poky-image-lsb-sdk-\${ARCH}.ext3 bs=1M count=8000 PC\$ sudo mkfs.ext3 poky-image-lsb-sdk-\${ARCH}.ext3 PC\$ mkdir lsb-mnt PC\$ sudo mount -o loop poky-image-lsb-sdk-\${ARCH}.ext3 lsb-mnt PC\$ cd lsb-mnt PC\$ sudo tar pxjvf ../poky-image-lsb-sdk-\${ARCH}.rootfs.tar.bz2

Running LSB need loop.ko module, you must install modules tarball. PC\$ sudo tar pxzvf ../moudles-\${KERNEL\_VERSION}.tgz PC\$ cd .. ; sudo umount lsb-mnt

```
And we also need to increase the gemu memory to 512MB.
For example, increase memory with gemux86:
PC$ sudo vim /opt/poky/1.0/sysroots/x86 64-pokysdk-linux/usr/bin/poky-gemu-
internal
########
if [ -z "$QEMU MEMORY" ]; then
  case "$MACHINE" in
    "qemux86")
      QEMU MEMORY="128M"
########
Change "128M" to "512M"
#######
if [ -z "$QEMU MEMORY" ]; then
  case "$MACHINE" in
    "gemux86")
      QEMU MEMORY="512M"
########
Add "-m $QEMUMEMORY" to the proper line.
#######
if [ "$MACHINE" = "qemux86" ]; then
  QEMU=gemu
  QEMU_UI_OPTIONS="$QEMU_UI_OPTIONS -vga vmware -enable-gl"
```

```
if [ "$FSTYPE" = "ext3" ]; then
   KERNCMDLINE="vga=0
                             root=/dev/hda
                                               mem=$QEMU MEMORY
$KERNEL NETWORK CMD"
   QEMUOPTIONS="$QEMU NETWORK CMD -hda $ROOTFS $QEMU UI OPTIONS"
########
#######
if [ "$MACHINE" = "gemux86" ]; then
  QEMU=gemu
  QEMU UI OPTIONS="$QEMU UI OPTIONS -vga vmware -enable-gl"
  if [ "$FSTYPE" = "ext3" ]; then
   KERNCMDLINE="vga=0
                                               mem=$QEMU_MEMORY
                            root=/dev/hda
$KERNEL NETWORK CMD"
   QEMUOPTIONS="$QEMU NETWORK CMD -m $QEMU MEMORY -hda $ROOTFS
$QEMU UI OPTIONS"
########
```

### Step 4: Set environment and install LSB on target

Boot up the target. Copy LSB test suite installation files to the target. TGT# tar xzvf lsb-dist-testkit-\${ARCH}.tar.gz -C / Put other files to the lsb-Application directory. TGT# mkdir /lsb-Application TGT# mv \*.rpm \*.tar \*.pdf /lsb-Application/

With real hardware, you also need to copy modules tarball to the target. And run the following commands:

TGT# tar pxzvf moudles-\${KERNEL\_VERSION}.tgz -C /

Both on qemu and hardware, you need to run the following command in order to generate the new modules.dep and map files TGT# depmod -a

Make sure the system time is correct on your target, using 'date MMDDhhmmYYYY' to set it.

Then run the following commands to set environment and install LSB: TGT# sh /usr/bin/LSB\_Setup.sh Note: There are 3 bugs in LSB\_Setup.sh script now (this will be modified in future), so please run the following command before running this script.

- 1. TGT# modprobe loop
- 2. TGT# echo "\${ARCH}-suse" >> /etc/rpm/platform
   TGT# echo "\${ARCH}-noarch" >> /etc/rpm/platform
   TGT# echo "\${ARCH}-pc" >> /etc/rpm/platform

TGT# echo "noarch-suse" >> /etc/rpm/platform \${ARCH} is your target architecture. For x86: i486 For x86\_64: x86\_64 For ppc: ppc

3. When LSB installation finish, you need install lsb-apache manully:

TGT# rpm -ivh lsb-apache-2.2.14-3.lsb4.\${ARCH}.rpm --noscripts -nodeps --force

#######

This system appears to be a RPM-based distribution, such as those from Red Hat, SuSE/Novell, Mandriva, Asianux, etc.

Is this correct? y

.....

The port '8888' will be used by the Distribution Checker's web-UI server.

The command 'sudo su -c' will be used to gain root access.

If you want to change this, run /opt/lsb/test/manager/bin/dist-checker-start.pl <port> <sudo-command>

..... ##########

You just need to run the above script at first time. When the LSB has been installed, if you want to start it, just run the following command: (remember insert module loop.ko first!)

TGT# /opt/lsb/test/manager/bin/dist-checker-start.pl

And if you want to stop the LSB server, just run the following command: TGT# /opt/lsb/test/manager/bin/dist-checker-stop.pl

#### Step 5: Run LSB test suite

1. Open a web browser on host. Input the target IP address and port. For example: http://192.168.7.2:8888

2. Select tests mode

🗠 🅘 LSB Distribution Checker Main Page - Mozilla Firefox						
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3. Click button "Refresh List"

4. Select test item. Now we can select the following tests:

Command Tests

Static Interface Tests

Runtime Interface Tests

Automated Application Battery Tests

Note: Make sure the "Status" must be marked as "Locally installed" in every test item.

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If you encounter an error message with some test items, just disselect these items and run test again.

If you encounter a warning message with some test items, you can ignore these message and click 'Continue' button.

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<u>Version</u> <u>Files</u> <u>Advanced</u>		

Note: Running the entire LSB test will take a long time, maybe more than 2 days, please be patient.

# 6. Get the result

When the LSB test finished, you can get the result. You can download the test

journals to the location and send it to the developer.

Test Results-Mozilla Firefox	000
文件(F) 编辑(E) 查看(V) 历史(S) 书签(B) 工具(T) 帮助(H)	
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Get Certified   Custom Tests   Execution   Results   Help   About	Administration
Summary Report for Test Run of 02.04.2011 09:23:17	
Test Execution Status	
Automatic Tests         FAILED           Manual Tests         NOT SELECTED	
Analyze the Failing Tests	
Please analyze the detailed report to understand the reasons of each fail and classify them into the following groups:	
<ol> <li>Confirmed FALE, which are due to the real inconsistencies of your system with the standard. To continue with the certification, you have the 2 False FALE, which you believe are due to the incorrect tests. Please report such FALEs to the II jsbert@lists.imusfoundation.org II ist. If the certify.</li> </ol>	o fix your implementation to remedy such FALs and then rerun the tests again. the problem reported is confirmed you will be granted a waiver so the test failure will not affect your ability to
<ol> <li>Onknown FALLS, which you have no idea about. Please ask help at the <u>inspectionses.innuxioundation.org</u> and isc.</li> <li>Note: only test results with all the FALLS waived are eligible for certification.</li> </ol>	
Locating Test Journals	
You can find the componentiated test journals of this test run at the following path (click to download to another rocarowner) dispetibilishtest/manager/results/s86-64-gemux86-64-2011-04-02-09h-23m-17x366-64-42emux86-64-2011-04-02-09h-23m-17s.1gz Do	ownload the test journals
You can easily upload these test results to the Certification System @.	
[Upload the test results]	
Viewing this Page Again	
This page has been saved as a part of the test run results. You may view it at any time by clicking particular test result at the Results page.	

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If you want to see the detailed report, just click the "View detailed report".

lest Results-Mozilla Hiferox		Se 🛛 🕹				
文件(E) 编辑(E) 查看(V) 历史(S) 书签(B) 工具(T) 帮助(H)						
🔶 🚽 😴 🛞 🏠 💷 http://192.168.7.2:8888/tests_results.pl?details=x86-64-qemux86-64-2011-04-02-09h-23m-17s	्रे <b>म</b>	Google 🔍 🔍 🖉 🗸				
亚 Test Results 🗱 🌳		- 10				
Configuration information from the journal						
VSX NAME Isbcmdchk 4.1.0-1 (x86 64)						
LSB VERSION 4.1		-				
Problem Summary						
Click on lines in the table to see the details about each problem.						
Test Name	Severity	Resolution				
foomatic-rip 1	failed					
Comment:						
· · · · · · · · · · · · · · · · · · ·						
Test Purpose Comment: Looking for command foomatic-rip						
Open the journal:						
/var/opt/lsb/test/manager/results/x86-64-gemux86-64-2011-04-02-09h-23m-17s/results/cmdchk.journal:312						
Click here to see the details						
about each problem	failed					
	failed					
	failed					
P 4	failed					
pr 1	failed					
rendwall 1	failed					
Seruman 1	failed					
Aug-deskup-icon 1	failed					
Aug-desauly-menu 1	failed					
Augenman 1	failed					
Aug-to-resource 1	failed					
Augunine a video con a l	failed					
Aug-ppen a	failed					
Aug-scieelisarei 1	lailed					
Journal statistics:						
Tests Total 150						
Tests Passed 135	Texts Torcal 1.30					
ISS FARE LA						
Library Check v. 4.1.0-1						
The linchk test suite is used to check if the nuntime lincaries contain all of the interfaces with correct versions as specified by the LSB specification						
The mean cost outer of outer an one famous normal and on the interfaces multiconect versions as specified by the Lab specification.						

The detailed report will be shown like blow: