

Texas Instruments  
amsdk\_android

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AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

Test Report

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## 1 Test Suite : Compliance

### Test Case amsdkA-403: Google's Compliance Test Suite(CTS) Automated

Summary:

This is to verify platform MUST pass the most recent version of the Android Compatibility Test Suite (CTS) available at the time of the device implementation's software is completed.

Steps:

- 1) download latest CTS and install on your PC(TEE)

- 2) update this test case parameters like cts\_dir and cts\_res\_dir using your new installation dir.
- 3) assign the test plan you want run(default is CTS) for the variable test\_plan.
- 4) start staf and others.

#### Expected Results:

Compliance test must pass with percentage greater than 95.

Test

execution     vatf

engine:

Test script

or logic:     android/cts/cts\_test.rb

Required

hardware     dut1 = ["<platform>",android]

assets:

DUT           shell\_script=BSP\CTS\cts\_test.bat,cts\_dir=/home/gtadwlan001/android-cts/tools/,cmdline=startcts

parameters:   start --plan, test\_plan=CTS, cts\_res\_dir=/home/gtadwlan001/android-cts/repository/results

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build           BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester          gt\_amsdk\_lead

## 2 Test Suite : Compatibility

### 2.1 Test Suite : Reference Software

#### Test Case amsdkA-9: SDK's Calculator App

Summary:

Run Calculator app (from Google's SDK)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:



Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### **Test Case amsdkA-10: SDK's LunarLander App**

Summary:

Run LunarLander app (from Google's SDK)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application  
parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### **Test Case amsdkA-12: SDK's ApiDemos App**

Summary:

Run ApiDemos app (from Google's SDK)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### Test Case amsdkA-13: Dalvik's Unit Tests

Summary:

Run Dalvik VM unit tests (from /dalvik/tests/)

Expected Results:

All Dalvik VM tests passed

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### Test Case amsdkA-384: Apps for android Amazed App

Summary:

Run Amazed app (from <http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

**Test Case amsdkA-385: Apps for android AndroidGlobalTime App**

Summary:

Run AndroidGlobalTime app (from

<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

**Test Case amsdkA-387: Apps for android Clickin2DaBeat App**

Summary:

Run Clickin2DaBeat app (from  
<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

**Test Case amsdkA-388: Apps for android DivideAndConquer App**

Summary:

Run DivideAndConquer app (from  
<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### **Test Case amsdkA-389: Apps for android HeightMapProfiler App**

Summary:

Run HeightMapProfiler app (from

<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### **Test Case amsdkA-390: Apps for android LOLcat Builder App**

Summary:

Run LOLcat Builder app (from

<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead

### **Test Case amsdkA-392: Apps for android Photostream App**

Summary:

Run Photostream app (from <http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### **Test Case amsdkA-395: Apps for android Samples App**

Summary:

Run Samples app (from <http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**  
Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead

**Test Case amsdkA-396: Apps for android SpriteMethodTest App**

Summary:  
Run SpriteMethodTest app (from  
<http://code.google.com/p/apps-for-android/>)  
Expected Results:  
Application APK is properly installed and runs OK  
Test execution  
engine:  
Test script or  
logic:  
Required hardware  
assets:  
DUT parameters:  
Application  
parameters:  
Test Equipment  
parameters:  
test case approver:  
Last Result: **Passed**  
Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead

**Test Case amsdkA-397: Apps for android Translate App**

Summary:  
Run Translate app (from <http://code.google.com/p/apps-for-android/>)  
Expected Results:  
Application APK is properly installed and runs OK  
Test execution  
engine:  
Test script or  
logic:  
Required hardware  
assets:  
DUT parameters:  
Application  
parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### **Test Case amsdkA-398: Apps for android WebViewDemo App**

Summary:

Run WebViewDemo app (from

<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### **Test Case amsdkA-399: Apps for android WikiNotes App**

Summary:

Run WikiNotes app (from <http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:



Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### Test Case amsdkA-233: Replica Island

Summary:

Run Replica Island Game

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

## 2.2 Test Suite : Development Tools

### Test Case amsdkA-15: ADB Ethernet

Summary:

Use Android Debug Bridge (adb) tool to connect to the target via ethernet port and install an application (.apk)

Steps:

On the host machine run the following commands from terminal shell: \$ export ADBHOST= \$ adb kill-server \$ adb start-server On the target, type the following commands to avoid ADBD defaulting to USB transport.

Restart ADBD to take the changed settings.: # setprop service.adb.tcp.port

5555 # stop adbd # start adbd

Expected Results:

adb recognizes the device (adb devices) and can connect to it (adb shell)

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### Test Case amsdkA-16: DDMS

Summary:

Use Dalvik Debug Monitor Service (DDMS) to watch processes running in the target, see process' threads, etc. Try to capture the device screen and to kill one process using DDMS.

Steps:

It is recommended to install Eclipse and the Android development (ADT) plugin to use DDMS, however it is not mandatory

Expected Results:

DDMS can connect to the device debug data is shown to the user

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

## 2.3 Test Suite : Multimedia

### 2.3.1 Test Suite : Audio

#### 2.3.1.1 Test Suite : Decode

##### Test Case amsdkA-33: MP3

Summary:

Mono/Stereo 8-320Kbps constant (CBR) or variable bit-rate (VBR) in a MP3 (.mp3) container

Expected Results:

Audio file plays fine

Test execution  
engine: vatf

Test script or  
logic: android/media/media\_player.rb

Required hardware  
assets: dut1 = ["<platform>",android];server1 = ["linux\_server"]

DUT parameters: host\_file\_path=/mnt/gtautoftp/android/data/video,  
file\_name=Mixed33\_48KHz\_320kbps\_Stereo.mp3, target\_file\_path=  
/mnt/sdcard, testname=MP3,intent=shell am start -W -n  
com.android.music/.MediaPlaybackActivity -a  
com.android.music.PLAYBACK\_VIEWER -d

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### 2.3.2 Test Suite : Image

## 2.3.2.1 Test Suite : Decode

### Test Case amsdkA-39: JPEG

Summary:

Display JPEG files using the Gallery app.

Steps:

Use the media app to display .jpg files, if no JPEG files in dut:

- Push a jpeg file to the dut via adb, "adb push <path to jpeg file> /sdcard/Images/<jpef file name>".

- Go to Launcher->Dev tools -> Media Scanner.

- Open the jpeg file with the Gallery app.

Expected Results:

File displays fine

Test execution  
engine: vatf

Test script or  
logic: android/media/media\_player.rb

Required hardware  
assets: dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters: host\_file\_path=/mnt/gtautoftp/android/data/image,  
file\_name=cafeteria\_2048x3172\_420p.jpg, target\_file\_path= /mnt/sdcard,  
testname=JPEG,intent=shell am start -W -n com.cooliris.media/.Gallery -a  
action.intent.action.VIEW -d

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### Test Case amsdkA-40: PNG

Summary:

Display PNG image with Galllery app.

Steps:

Use the media app to display .png files, if no PNG files in dut:

- Push a .png file to the dut via adb, "adb push <path to png file> /sdcard/Images/<png file name>.
- Go to Launcher->Dev tools -> Media Scanner.
- Open the png file with the Gallery app.

Expected Results:

File displays fine

Test execution engine: vatf

Test script or logic: android/media/media\_player.rb

Required hardware assets: dut1 = ["<platform>",android]

DUT parameters: host\_file\_path=/mnt/gtautoftp/android/data/image, file\_name=o-png24.png,  
target\_file\_path= /mnt/sdcard, testname=PNG

Application parameters:

Test Equipment parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

**Test Case amsdkA-41: GIF**

Summary:

Display GIF image with Gallery app.

Steps:

Use the media app to display .gif files, if no GIF files in dut:

- Push a .gif file to the dut via adb, "adb push <path to gif file> /sdcard/Images/<gif file name>.
- Go to Launcher->Dev tools -> Media Scanner.
- Open the gif file with the Gallery app.

Expected Results:

File displays fine

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

Test execution engine: vatf

Test script or logic: android/media/media\_player.rb

Required hardware assets: dut1 = ["<platform>",android]

DUT parameters: host\_file\_path=/mnt/gtautoftp/android/data/image,  
file\_name=water\_asymmetric\_o-h\_stretch.gif, target\_file\_path= /mnt/sdcard,  
testname=GIF

Application parameters:

Test Equipment parameters:

test case approver:

Last Result: **Passed**

Build: BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester: gt\_amsdk\_lead

### Test Case amsdkA-42: BMP

Summary:

Display BMP Image with Gallery app.

Steps:

Use the media app to display .bmp files, if no BMP files in dut:

- Push a .bmp file to the dut via adb, "adb push <path to bmp file> /sdcard/Images/<bmp file name>".
- Go to Launcher->Dev tools -> Media Scanner.
- Open the bmp file with the Gallery app.

Expected Results:

File displays fine

Test execution engine: vatf

Test script or logic: android/media/media\_player.rb

Required hardware assets: dut1 = ["<platform>",android]

DUT parameters: host\_file\_path=/mnt/gtautoftp/android/data/image, file\_name=blackbuck.bmp,  
target\_file\_path= /mnt/sdcard, testname=BMP

Application parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

## 2.3.3 Test Suite : Video

### 2.3.3.1 Test Suite : Decode

#### Test Case amsdkA-45: H.264

Summary:

H.264 files in 3GPP (.3gp) and MPEG-4 (.mp4) container

Expected Results:

Video file plays fine

Test execution  
engine: vatf

Test script or  
logic: android/media/media\_player.rb

Required hardware  
assets: dut1 = ["<platform>",android]

DUT parameters:  
host\_file\_path=/mnt/gtautoftp/android/data/video,  
file\_name=omap4ad1\_h264\_aac\_cif\_288kbps\_63kbps.3gp, target\_file\_path=  
/mnt/sdcard, testname=H264,intent=shell am start -W -n  
com.cooliris.media/.MovieView -a action.intent.action.VIEW -d

Application  
parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

### Test Case amsdkA-46: MPEG4 SP

Summary:

MPEG4 Simple Profile files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Test execution  
engine: vatf

Test script or  
logic: android/media/media\_player.rb

Required hardware  
assets: dut1 = ["<platform>", android]

DUT parameters: host\_file\_path=/mnt/gtautoftp/android/data/video,  
file\_name=omap4ad1\_mpeg4\_aac\_cif\_528kbps\_63kbps.3gp,  
target\_file\_path= /mnt/sdcard, testname=MPEG4-SP,intent=shell am start -W  
-n com.cooliris.media/.MovieView -a action.intent.action.VIEW -d

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

## 3 Test Suite : Performance

### 3.1 Test Suite : System

#### Test Case amsdkA-47: Browser Launch Time

Summary:

The launch time is measured as the total time to complete loading the default activity for the application, including the time it takes to start the Linux process, load the Android package into the Dalvik VM, and call onCreate.

Expected Results:

Browser should launch in less than 1300ms



Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes less thans 1s

#### **Test Case amsdkA-49: Simultaneous Applications**

Expected Results:

When multiple applications have been launched, re-launching an alreadyrunning application after it has been launched must take less than the original launch time.

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

#### **Test Case amsdkA-117: Boot time**

Summary:

Measure the time it takes since kernel image starts being downloaded until Android home screen appears.

Steps:

Boot the DUT and measure the boot time.

Expected Results:

Less or equal than previous release

Test execution  
engine: vatf

Test script or  
logic: android/boot/boottime\_test.rb

Required hardware  
assets: dut1 = ["<platform>",android]

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes First boot: 82 sec

Reboot: 38 sec

### Test Case amsdkA-593: Quadrant Benchmark

Summary:

Install and run aurorasoftworks Quadrant benchamrk

Steps:

Install and run Qudrant, and save the results

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

## 3.2 Test Suite : 0xBench

### Test Case amsdkA-89: 0xBench Math Linpack test

Summary:

0xBench Math Linpack test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchma

DUT class org.zeroxlab.benchmark.test.BenchmarkTest#testMathLinpack

parameters: org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing MathLinpack performance data collected successfully

notes

LOG PATH

**Test Case amsdkA-90: 0xBench Math Scimark2 test**

Summary:

0xBench Math Scimark2 test.

Test

execution     vatf

engine:

Test script  
or logic:     android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware     dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark

DUT           class org.zeroxlab.benchmark.test.BenchmarkTest#testMathScimark2

parameters:  org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I

\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build         BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester        gt\_amsdk\_lead

Testing       MathScimark2 performance data collected successfully

notes

LOG PATH

**Test Case amsdkA-91: 0xBench 2D Draw Canvas test**

Summary:

0xBench 2D Draw Canvas test.

Test

execution     vatf

engine:

Test script  
or logic:     android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware     dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

DUT           test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark

parameters:  class org.zeroxlab.benchmark.test.BenchmarkTest#test2DDrawCanvas

org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I

\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 2DDrawCanvas performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-92: 0xBench 2D Draw Circle test

Summary:

0xBench 2D Draw Circle test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark

DUT class org.zeroxlab.benchmark.test.BenchmarkTest#test2DDrawCircle

parameters: org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I

\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 2DDrawCircle performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-93: 0xBench 2D Draw Circle2 test

Summary:

0xBench 2D Draw Circle2 test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zerolab.benchmark.test;Benchmark-debug.apk:org.zerolab.benchmark

DUT class org.zerolab.benchmark.test.BenchmarkTest#test2DDrawCircle2

parameters: org.zerolab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 2DDrawCircle2 performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-94: 0xBench 2D Draw Rect test

Summary:

0xBench 2D Draw Rect test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

DUT test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark.test  
parameters: class org.zeroxlab.benchmark.test.BenchmarkTest#test2DDrawRect  
org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 2DDrawRect performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-95: 0xBench 2D Draw Arc test

Summary:

0xBench 2D Draw Arc test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark.test

DUT class org.zeroxlab.benchmark.test.BenchmarkTest#test2DDrawArc

parameters: org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I

\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 2DDrawArc performance data collected successfully  
notes

LOG PATH

### Test Case amsdkA-96: 0xBench 2D Draw Image test

Summary:

0xBench 2D Draw Image test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark

DUT class org.zeroxlab.benchmark.test.BenchmarkTest#test2DDrawImage

parameters: org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 2DDrawImage performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-97: 0xBench 2D Draw Text test

Summary:

0xBench 2D Draw Text test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb



## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

### Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]  
assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark

DUT class org.zeroxlab.benchmark.test.BenchmarkTest#test2DDrawText

parameters: org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

### Application

parameters:

### Test

### Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 2DDrawText performance data collected successfully

notes

LOG PATH

## Test Case amsdkA-98: 0xBench 3D OpenGL Cube test

Summary:

0xBench 3D OpenGL Cube test.

### Test

execution vatf

engine:

Test script android/performance/0xLabBenchmark/zeroxbench\_perf.rb  
or logic:

### Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark

DUT class org.zeroxlab.benchmark.test.BenchmarkTest#test3DOpenGLCube

parameters: org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

### Application

parameters:

### Test

### Equipment

parameters:

test case

approver:

Last Result: **Passed**

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead  
Testing 3DOpenGLCube performance data collected successfully  
notes  
LOG PATH

### Test Case amsdkA-99: 0xBench 3D OpenGL Blending test

Summary:

0xBench 3D OpenGL Blending test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware dut1 = ["<platform>", android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchmark

DUT class org.zeroxlab.benchmark.test.BenchmarkTest#test3DOpenGLBlending

parameters: org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 3DOpenGLBlending performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-100: 0xBench 3D OpenGL Fog test

Summary:

0xBench 3D OpenGL Fog test.

Test

execution vatf

engine:

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

Test script  
or logic: android/performance/0xLabBenchmark/zerobench\_perf.rb

Required  
hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:  
test\_libs=BenchmarkTest.apk:org.zerolab.benchmark.test;Benchmark-debug.apk:org.zerolab.benchmark

DUT class org.zerolab.benchmark.test.BenchmarkTest#test3DOpenGLFog

parameters: org.zerolab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

Application  
parameters:

Test  
Equipment  
parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 3DOpenGLFog performance data collected successfully

notes  
LOG PATH

### Test Case amsdkA-101: 0xBench 3D OpenGL Flying Teapot test

Summary:

0xBench 3D OpenGL Flying Teapot test.

Test  
execution vatf

engine:

Test script  
or logic: android/performance/0xLabBenchmark/zerobench\_perf.rb

Required  
hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:  
test\_libs=BenchmarkTest.apk:org.zerolab.benchmark.test;Benchmark-debug.apk:org.zerolab.benchmark

DUT class org.zerolab.benchmark.test.BenchmarkTest#test3DOpenGLTeapot

parameters: org.zerolab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I  
\*:S,res\_file=/sdcard/0xBenchmark.xml

Application  
parameters:

Test  
Equipment  
parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing 3DOpenGLTeapot performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-102: 0xBench VM Garbage Collection test

Summary:

0xBench VM Garbage Collection test.

Test

execution vatf

engine:

Test script or logic: android/performance/0xLabBenchmark/zeroxbench\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

test\_libs=BenchmarkTest.apk:org.zeroxlab.benchmark.test;Benchmark-debug.apk:org.zeroxlab.benchma

DUT class org.zeroxlab.benchmark.test.BenchmarkTest#testVMGC

parameters: org.zeroxlab.benchmark.test/android.test.InstrumentationTestRunner,log\_option=Benchmark:I

\*:S,res\_file=/sdcard/0xBenchmark.xml

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing VMGC performance data collected successfully

notes

LOG PATH

## 3.3 Test Suite : Netperf

**Test Case amsdkA-105: TCP Stream, Buffer size 16****Summary:**

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

**Steps:**

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 16"

Test execution engine:	vatf
Test script or logic:	android/performance/netperf/netperf.rb
Required hardware assets:	dut1 = ["<platform>",android]; server1 = ["linux_server"]
DUT parameters:	
Application parameters:	time=60,buffer_size=16,port_number=22115,ip_version=4,min_bw=30
Test Equipment parameters:	
test case approver:	
Last Result:	<b>Passed</b>
Build	BD_GIN_2.3.4_DEVKIT_3517
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 16 31.92

**LOG PATH**

**Test Case amsdkA-106: TCP Stream, Buffer size 32****Summary:**

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

**Steps:**

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 32"

Test execution engine:	vatf
Test script or logic:	android/performance/netperf/netperf.rb
Required hardware assets:	dut1 = ["<platform>",android]; server1 = ["linux_server"]
DUT parameters:	
Application parameters:	time=60,buffer_size=32,port_number=22115,ip_version=4,min_bw=30
Test Equipment parameters:	
test case approver:	
Last Result:	<b>Passed</b>
Build	BD_GIN_2.3.4_DEVKIT_3517
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 32 31.83

LOG PATH

**Test Case amsdkA-107: TCP Stream, Buffer size 64**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 64"

Test execution engine: vatf

Test script or logic: android/performance/netperf/netperf.rb

Required hardware assets: dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters:

Application parameters: time=60,buffer\_size=64,port\_number=22115,ip\_version=4,min\_bw=30

Test Equipment parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes      Buffer Size Throughput 64 31.84

LOG PATH

**Test Case amsdkA-108: TCP Stream, Buffer size 128**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 128"

Test execution  
engine:      vatf

Test script or  
logic:      android/performance/netperf/netperf.rb

Required hardware  
assets:      dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters:

Application  
parameters:      time=60,buffer\_size=128,port\_number=22115,ip\_version=4,min\_bw=30

Test Equipment  
parameters:

test case approver:

Last Result:      **Passed**



Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 128 31.83

LOG PATH

**Test Case amsdkA-109: TCP Stream, Buffer size 256**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 256"

Test execution engine: vatf

Test script or logic: android/performance/netperf/netperf.rb

Required hardware assets: dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters:

Application parameters: time=60,buffer\_size=256,port\_number=22115,ip\_version=4,min\_bw=30

Test Equipment parameters:

test case approver:

Last Result: **Passed**  
Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 256 31.27

LOG PATH

**Test Case amsdkA-110: TCP Stream, Buffer size 512**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 512"

Test execution engine: vatf

Test script or logic: android/performance/netperf/netperf.rb

Required hardware assets: dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters:

Application parameters: time=60,buffer\_size=512,port\_number=22115,ip\_version=4,min\_bw=30

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes Buffer Size Throughput 512 31.93

LOG PATH

**Test Case amsdkA-111: TCP Stream, Buffer size 1024**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 1024"

Test execution engine: vatf

Test script or logic: android/performance/netperf/netperf.rb

Required hardware assets: dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters:

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

Application parameters: time=60,buffer\_size=1024,port\_number=22115,ip\_version=4,min\_bw=30

Test Equipment parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes Buffer Size Throughput 1024 31.85

### LOG PATH

### **Test Case amsdkA-112: TCP Stream, Buffer size 4096**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 4096"

Test execution engine: vatf

Test script or logic: android/performance/netperf/netperf.rb

dut1 = ["<platform>",android]; server1 = ["linux\_server"]

Required hardware

assets:

DUT parameters:

Application parameters: time=60,buffer\_size=4096,port\_number=22115,ip\_version=4,min\_bw=30

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes Buffer Size Throughput 4096 45.9

### LOG PATH

### **Test Case amsdkA-113: TCP Stream, Buffer size 8192**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 8192"

Test execution engine: vatf

Test script or logic: android/performance/netperf/netperf.rb

Required hardware assets: dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters:

Application parameters: time=60,buffer\_size=8192,port\_number=22115,ip\_version=4,min\_bw=30

Test Equipment parameters:

test case approver:

Last Result: **Failed**

Build: BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester: gt\_amsdk\_lead

Testing notes: Performance is less than 30.0 Mb/s. AVG Throughput=12.88 Buffer Size Throughput 8192 12.88

LOG PATH

## 3.4 Test Suite : Browser

### Test Case amsdkA-262: Acid3 tests

Summary:

Measure Browser functionality and performance by running <http://acid3.acidtests.org/> tests

Steps:

Run automated test or manually open the browser and go to <http://acid3.acidtests.org/>

Expected Results:

Score 100 out of 100.

Test execution vatf engine:

Test script or logic: android/performance/webbrowser/browser\_test.rb

Required hardware assets: dut1 = ["<platform>",android]

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

DUT enable\_eth=netcfg eth0 up,enable\_dhcp=netcfg eth0 dhcp,set\_dns=setprop net.dns1 158.218.108.21,set\_p  
parameters: http://wwwgate.ti.com:80,app\_name=WebViewBrowserTest.apk,test\_type=acid,host\_file\_path=/mnt/gta  
am start -W -n com.android.mWebView/.WebViewBrowserTest -a android.intent.action.MAIN -c androi

Application  
parameters: min\_score=100

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing Test case PASS.

notes

LOG PATH

**Test Case ams**

Summary:

Measure Javascript performance by running <http://www2.webkit.org/perf/sunspider/sunspider.html> tests

Steps:

Run automated test or manually open the browser and go to <http://www2.webkit.org/perf/sunspider-0.9/sunspider.html>

Test

execution vatf

engine:

Test script  
or logic: android/performance/webbrowser/browser\_test.rb

Required

hardware dut1 = ["<platform>",android]

assets:

DUT enable\_eth=netcfg eth0 up,enable\_dhcp=netcfg eth0 dhcp,set\_dns=setprop net.dns1 158.218.108.21,set\_p  
parameters: http://wwwgate.ti.com:80,app\_name=WebViewBrowserTest.apk,test\_type=sunspider,host\_file\_path=/mnt  
am start -W -n com.android.mWebView/.WebViewBrowserTest -a android.intent.action.MAIN -c androi

Application  
parameters: max\_exec\_time=5000

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing Test case PASS.

notes

LOG PATH

## Test Case amsdkA-264: V8 Br

Summary:

Measure Javascript performance by running <http://v8.googlecode.com/svn/data/benchmarks/v6/run.html> tests

Steps:

Run automated test or manually open the browser and go to <http://v8.googlecode.com/svn/data/benchmarks/v6/run.html>

Expected Results:

At least a score of 100.

Test

execution vatf

engine:

Test script  
or logic: android/performance/webbrowser/browser\_test.rb

Required

hardware dut1 = ["<platform>",android]

assets:

DUT enable\_eth=netcfg eth0 up,enable\_dhcp=netcfg eth0 dhcp,set\_dns=setprop net.dns1 158.218.108.21,set\_p  
parameters: <http://wwwgate.ti.com:80>,app\_name=WebViewBrowserTest.apk,test\_type=v8,host\_file\_path=/mnt/gtaut  
am start -W -n com.android.mWebView/.WebViewBrowserTest -a android.intent.action.MAIN -c androi

Application  
parameters: min\_score=100

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead



Testing notes

Test case PASS.

LOG PATH

Test Case amsdkA-

Summary:

Measure browser performance using <http://www.themaninblue.com/experiment/AnimationBenchmark/>

Steps:

Open the browser and go to <http://http://www.themaninblue.com/experiment/AnimationBenchmark/>

Test execution engine: vatf

Test script or logic: android/performance/webbrowser/browser\_test.rb

Required hardware assets: dut1 = ["<platform>",android]

DUT parameters: enable\_eth=netcfg eth0 up,enable\_dhcp=netcfg eth0 dhcp,set\_dns=setprop net.dns1 158.218.108.21,set\_p  
http://wwwgate.ti.com:80,app\_name=WebViewBrowserTest.apk,test\_type=themaninblue,host\_file\_path=  
am start -W -n com.android.mWebView/.WebViewBrowserTest -a android.intent.action.MAIN -c androi

Application parameters:

Test Equipment parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes

Test case PASS.

LOG PATH

## 3.5 Test Suite : RowboPerf

### Test Case amsdkA-118: Dhrystone

Summary:

Measure Dhrystone bechmark

Steps:

Run RowboPerf's Dhrystone application

Expected Results:

As good or better than previous

Test execution  
engine: vatf

Test script or  
logic: android/performance/rowboperf/rowboperf.rb

Required hardware  
assets: dut1 = ["<platform>",android]

DUT parameters: app\_name=runDhrystone

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

### Test Case amsdkA-119: Whetstone

Summary:

Measure Whetstone metric

Steps:

Run RowboPerf's Whetstone application

Expected Results:

As good or better than previous release

Test execution  
engine: vatf

Test script or  
logic: android/performance/rowboperf/rowboperf.rb

dut1 = ["<platform>",android]

Required hardware

assets:

DUT parameters: app\_name=runWhetstone

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

### Test Case amsdkA-120: Linpack

Summary:

Measure Linpack metrics

Steps:

Run RowboPerf's Linpack application

Expected Results:

As good or better than previous release

Test execution  
engine: vatf

Test script or  
logic: android/performance/rowboperf/rowboperf.rb

Required hardware  
assets: dut1 = ["<platform>",android]

DUT parameters: app\_name=runLinpack

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

## 3.6 Test Suite : adb

### Test Case amsdkA-121: adb USB Performance

Summary:

Measure Android Debug bridge performance using USB connection

Steps:

Push and pull a 20MB file 10 times and measure the throughput

Expected Results:

As good or better than previous release

Test execution  
engine: vatf

Test script or  
logic: android/performance/adb/adb\_perf.rb

Required hardware  
assets: dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters:

Application  
parameters: file\_size=20,iterations=10,min\_bw=4000

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing notes  
Functionality is good, performance does not meet expected value of 4000 KB/s. the avg throughputs measured were Mean-TX=2316.8  
Mean-RX=4019.4

### Test Case amsdkA-122: adb ethernet Performance

Summary:

Measure Android Debug bridge performance using ethernet connection

Steps:

Push and pull a 20MB file 10 times and measure the throughput

Expected Results:

As good or better than previous release

Test execution engine: vatf

Test script or logic: android/performance/adb/adb\_perf.rb

Required hardware assets: dut1 = ["<platform>",android]; server1 = ["linux\_server"]

DUT parameters:

Application parameters: file\_size=20,iterations=10,min\_bw=4000

Test Equipment parameters:

test case approver:

Last Result: **Passed**

Build: BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester: gt\_amsdk\_lead

Testing notes: Functionality is good, performance does not meet expected value of 4000 KB/s. the avg throughputs measured were Mean-TX=2615.4 Mean-RX=3455.7

## 3.7 Test Suite : Storage

### 3.7.1 Test Suite : USB

#### Test Case amsdkA-265: USB vfat partition write/read test with a block size of 512 bytes

Summary:

USB vfat partition write/read test with a block size of 512 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 512 in the Block Size: field
- 6) Enter 104857600 in the File Size: field

7) Click the Run button, and wait for the results screen

8) Collect the Write and Read Throughput

#### Expected Results:

Throughput should be as goog or better than the last release

Test

execution vatf

engine:

Test script  
or logic: android/performance/StorageIO/storageio\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

device=USB,file\_system=vfat,test\_libs=StorageIOTest.apk:com.ti.android.apps.storage.test;StorageIO.apk

DUT fileSize 104857600 -e blkSize 512 -e class com.ti.android.apps.storage.test.StorageIOTest#testIOSpeed

parameters: com.ti.android.apps.storage.test/com.ti.android.apps.storage.test.StorageIOTestRunner,log\_option=StorageIOTest:I,perf\_matches=StorageIOTest.\*?(Write\s\*rate)\s\*:\s\*([\d\.E\+|-]+\s\*)(.\*?bytes/sec);StorageIOTest

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing StorageIO performance data collected successfully

notes

LOG PATH

#### Test Case amsdkA-266: USB vfat partition write/read test with a block size of 512

Summary:

---- Warning ----

TestLink Warning

test case name is too long (101 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 4096 bytes and a file of size 104857600 bytes

## Manual execution

- Expected Results:

Test

engine:

Required

assets:

DUT parameters: device=USB,file\_system=vfat,test\_libs=StorageIOTest.apk:com.ti.android.apps.storage.test;StorageIO.apk, fileSize 104857600 -e blkSize 4096 -e class com.ti.android.apps.storage.test.StorageIOTest#testIOSpeed com.ti.android.apps.storage.test/com.ti.android.apps.storage.test.StorageIOTestRunner,log\_option=StorageIOTest:I,perf\_matches=StorageIOTest.\*?(Write\s\*rate)\s\*:\s\*([\d\.\E\+\-]+)\s\*(.\*?bytes/sec);StorageIOTest:.\*?(Read\s\*rate)\s\*:\s\*([\d\.\E\+\-]+)\s\*(.\*?bytes/sec);StorageIOTest:.\*?(IOPS)\s\*:\s\*([\d\.\E\+\-]+)\s\*(.\*?)

## Application

parameters:

Test

## Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing StorageIO performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-267: USB vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

Summary:

---- Warning ----

TestLink Warning

test case name is too long (102 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 16384 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput





- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 65536 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Test

execution     vfat

engine:

Test script     android/performance/StorageIO/storageio\_perf.rb  
or logic:

Required

hardware     dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

device=USB,file\_system=vfat,test\_libs=StorageIOTest.apk:com.ti.android.apps.storage.test;StorageIO.apk  
DUT     fileSize 104857600 -e blkSize 65536 -e class com.ti.android.apps.storage.test.StorageIOTest#testIOSpeed  
parameters: com.ti.android.apps.storage.test/com.ti.android.apps.storage.test.StorageIOTestRunner,log\_option=StorageIOTest:I,perf\_matches=StorageIOTest.\*?(Write\s\*rate)\s\*:\s\*([\d\.E\+|-])\s\*(.\*?bytes/sec);StorageIOTest

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build     BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester     gt\_amsdk\_lead

Testing     StorageIO performance data collected successfully

notes

LOG PATH

**Test Case amsdkA-269: USB vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (103 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 524288 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Test

execution vatf

engine:

Test script or logic: android/performance/StorageIO/storageio\_perf.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

DUT device=USB,file\_system=vfat,test\_libs=StorageIOTest.apk:com.ti.android.apps.storage.test;StorageIO.apk

parameters: fileSize 104857600 -e blkSize 524288 -e class com.ti.android.apps.storage.test.StorageIOTest#testIOSpeed

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

```
com.ti.android.apps.storage.test/com.ti.android.apps.storage.test.StorageIOTestRunner,log_option=StorageIOTest:I,perf_matches=StorageIOTest.*?(Write\s*rate)\s*:\s*(\[\\d\\.E+\\-]+)\\s*(.*)?bytes/sec);Storage
```

Application  
parameters:

Test

## Equipment

parameters:

test case

approver:

**Last Result: Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing StorageIO performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-270: USB vfat partition write/read test with a block size of 1024

Summary:

---- Warning ----

## TestLink Warning

test case name is too long (104 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 1048576 bytes and a file of size 104857600 bytes

— — — \* \* \*

USB vfat partition write/read test with a block size of 1048576 bytes and a file of size 104857600 bytes

Steps:

## Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 1048576 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Test

execution     vatf

engine:

Test script  
or logic:     android/performance/StorageIO/storageio\_perf.rb

Required

hardware     dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

DUT             device=USB,file\_system=vfat,test\_libs=StorageIOTest.apk:com.ti.android.apps.storage.test;StorageIO.apk  
parameters:     fileSize 104857600 -e blkSize 1048576 -e class com.ti.android.apps.storage.test.StorageIOTest#testIOSp  
com.ti.android.apps.storage.test/com.ti.android.apps.storage.test.StorageIOTestRunner,log\_option=StorageIOTest:I,perf\_matches=StorageIOTest.\*?(Write\s\*rate)\s\*:\s\*([\d\.E\+\-]+)\s\*(.\*?bytes/sec);StorageIOTest

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build             BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester            gt\_amsdk\_lead

Testing           StorageIO performance data collected successfully

notes

LOG PATH

## 3.7.2 Test Suite : MMC/SD

### Test Case amsdkA-277: MMC/SD vfat partition write/read test with a block s

Summary:

---- Warning ----

TestLink Warning

test case name is too long (103 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 512 bytes and a file of size 104857600 bytes

## Manual execution

- Expected Results:

Test

engine:

Required

assets:

```
DUT MMC/SD -e fileSize 104857600 -e blkSize 512 -e class com.ti.android.apps.storage.test.StorageIOTest#t
```

```
StorageIOTest:Iperf_matches=StorageIOTest.*?(Write\s*rate)\s*:\s*(\[\d\.E\+|-]+\)\s*(.*?bytes/sec);Stora
```

parameters:

Test

## Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing StorageIO performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-278: MMC/SD vfat partition write/read test with a block s

Summary:

---- Warning ----

TestLink Warning

test case name is too long (104 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 4096 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 4096 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 4096 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

### Expected Results:

Throughput should be as goog or better than the last release

#### Test

execution     vfat

#### engine:

Test script  
or logic:     android/performance/StorageIO/storageio\_perf.rb

#### Required

hardware     dut1 = ["<platform>",android]; server1 = ["linux\_server"]

#### assets:

device=MMC/SD,file\_system=vfat,test\_libs=StorageIOTest.apk:com.ti.android.apps.storage.test;Storage

DUT     MMC/SD -e fileSize 104857600 -e blkSize 4096 -e class com.ti.android.apps.storage.test.StorageIOTest#

parameters: com.ti.android.apps.storage.test/com.ti.android.apps.storage.test.StorageIOTestRunner,log\_option=StorageIOTest:I,perf\_matches=StorageIOTest.\*?(Write\s\*rate)\s\*:\s\*([\d\.E\+\-]+\s\*(.\*?bytes/sec);Stora

#### Application

#### parameters:

#### Test

#### Equipment

#### parameters:

#### test case

#### approver:

Last Result: **Passed**

Build     BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester     gt\_amsdk\_lead

Testing     StorageIO performance data collected successfully

#### notes

LOG PATH

### Test Case amsdkA-279: MMC/SD vfat partition write/read test with a block size

#### Summary:

---- Warning ----

TestLink Warning

test case name is too long (105 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

#### Steps:

#### Manual execution

1) Verify that you have StorageIO installed in the dut

2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted



- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 16384 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Test

execution     vfatf

engine:

Test script     android/performance/StorageIO/storageio\_perf.rb  
or logic:

Required

hardware     dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

device=MMC/SD,file\_system=vfat,test\_libs=StorageIOTest.apk:com.ti.android.apps.storage.test;StorageIOTest.apk  
DUT     MMC/SD -e fileSize 104857600 -e blkSize 16384 -e class com.ti.android.apps.storage.test.StorageIOTest  
parameters: com.ti.android.apps.storage.test/com.ti.android.apps.storage.test.StorageIOTestRunner,log\_option=StorageIOTest:I,perf\_matches=StorageIOTest.\*?(Write\s\*rate)\s\*:\s\*([\d\.E\+|-])\s\*(.\*?bytes/sec);StorageIOTest

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

Build     BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester     gt\_amsdk\_lead

Testing     StorageIO performance data collected successfully

notes

LOG PATH

**Test Case amsdkA-280: MMC/SD vfat partition write/read test with a block s**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (105 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 65536 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 65536 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 65536 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Test

execution     vatf

engine:

Test script  
or logic:     android/performance/StorageIO/storageio\_perf.rb

Required

hardware     dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

DUT             device=MMC/SD,file\_system=vfat,test\_libs=StorageIOTest.apk:com.ti.android.apps.storage.test;StorageIOTest.apk  
parameters:     MMC/SD -e fileSize 104857600 -e blkSize 65536 -e class com.ti.android.apps.storage.test.StorageIOTest

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

```
com.ti.android.apps.storage.test/com.ti.android.apps.storage.test.StorageIOTestRunner,log_option=StorageIOTest:I,perf_matches=StorageIOTest.*?(Write\s*rate)\s*:\s*(\[\\d\\.E+\\-]+)\\s*(.*)?bytes/sec);Storage
```

Application  
parameters:

Test

## Equipment

parameters:

test case

approver:

**Last Result: Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

Testing StorageIO performance data collected successfully

notes

LOG PATH

### Test Case amsdkA-281: MMC/SD vfat partition write/read test with a block size

Summary:

---- Warning ----

## TestLink Warning

test case name is too long (106 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes

— — — \* \* \*

MMC/SD vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes

Steps:

## Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 524288 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput





Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead  
Testing StorageIO performance data collected successfully  
notes  
LOG PATH

## 3.8 Test Suite : Database

### 3.8.1 Test Suite : TestIndex

#### Test Case amsdkA-124: TestIndex Benchmarks

Summary:

Run Testindex benchmark application to measure database performance.

Steps:

- 1) Install Testindex (Benchmark.apk) file available at android/common/testindex/benchmark.apk
- 2) Start benchmark application
- 3) Press F1 or the menu button and select sqllite tp start the test
- 4) Wait few minutes (~15min) until the test completes.

Expected Results:

Performance should be as good or better than previous releases

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead  
Testing notes

#### Sqllite result

Elapsed time for inserting 10000 =3142870ms

2000 index elapsed time search = 30836 ms

iteratingthrough 20000 record = 2514 ms

database length before delete 891904

elapsed data for deleting 10000 record 3245131 ms

database file length 8192

#### Perst result

Elapsed time for inserting 10000 =5876ms

2000 index elapsed time search = 3856 ms

iteratingthrough 20000 record = 2973 ms

elapsed data for deleting 10000 record 12248 ms

database file length 2056192

## 4 Test Suite : Stress

### 4.1 Test Suite : Monkey

#### Test Case amsdkA-307: Monkey System Stress

Summary:

Stress Test the system using the monkey tool

Steps:

Manual Verification:

1) Run the monkey tool for the given number of events, with the specified flags

2) Verify that there are no crashes

Test

execution vatf

engine:

Test script

or logic: android/ui/ui.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]

assets:

DUT

parameters: black\_list=com.android.providers.telephony;com.android.phone;com.android.camera,event\_count=5000

Application

parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Failed**

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Testing Crash(es) reported for [] No response(s) reported [{"com.android.browser", "pid 2176",  
notes "com.android.browser/.BrowserActivity", "keyDispatchingTimedOut"}]

LOG PATH

## 4.2 Test Suite : USB

Summary:

Tests USB enumeration capability.

Steps:

1) Connect the test switch(Extron) to the test PC using serial port and to the platform using USB.

2) connect devices to the HUB. Devices are like Key Board, Mous, JoyStick etc

3) Update you test bench to include the swtich, change DNS workaround file to include the switch.

4) Execute the test case. It should run automaticaly

Expected Results:

### 4.2 Test Suite : USB



Check pass or fail status.

Test

execution vatf

engine:

Test script  
or logic: android/stability/usb/usb\_enumeration.rb

Required

hardware dut1 = ["<platform>",android]; server1 = ["linux\_server"]; usb\_sw=["usb\_switch"]

assets:

DUT  
parameters: iterations=100,wait\_after\_connect=3,wait\_after\_disconnect=3,pass\_rate=100,enum\_strings=USB\s+hub\

Application  
parameters:

Test

Equipment

parameters:

test case

approver:

Last Result: **Passed**

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Testing Success Enumeration rate=100.0

notes

LOG PATH

### Test Case amsdkA-235: Long-Term Graphics test

Summary:

Run Graphics demos for 48 hrs

Test execution

engine:

Test script or  
logic:

Required hardware

assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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## 5 Test Suite : Documentation

### Test Case amsdkA-54: DevKit Users Guide

Summary:

Verify that a DevKit Users Guide document is provided

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-55: Release Notes

Summary:

Verify that a Release Notes are provided

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**  
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Tester gt\_amsdk\_lead

### Test Case amsdkA-56: Porting Guide

Summary:

Verify that an Android Rowboat Porting Guide document is provided

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**  
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Tester gt\_amsdk\_lead

### Test Case amsdkA-57: CTS Report

Summary:

Verify that a CTS report is provided

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**  
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Tester gt\_amsdk\_lead

### Test Case amsdkA-58: DevKit Test Report

Summary:

Verify that a DevKit Test Report is provided

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**  
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Tester gt\_amsdk\_lead

### Test Case amsdkA-59: Android Rowboat Manifest

Summary:

Verify that an Android Rowboat Manifest document t is provided

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-60: Datasheet

Summary:

Verify that a Datasheet document is provided

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-72: Eclipse Setup

Summary:

Verify that procedure to setup Eclipse for Android development is  
provided or referenced in the DevKit documentation

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-73: ADB over Ethernet Setup

Summary:

Verify that the procedure to setup Android Debug Bridge (ADB) over Ethernet is provided or referenced in the DevKit documentation

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-74: ADB over USB Setup

Summary:

Verify that the procedure to setup Android Debug Bridge (ADB) over USB is provided or referenced in the DevKit documentation

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-75: ADB .apk File Download

Summary:

Verify that procedure to download .apk files using ADB is documented

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-76: Eclipse APK File Download

Summary:

Verify that procedure to download .apk files using Eclipse is documented

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-78: DevKit Developers Guide

Summary:

Verify that a DevKit Developers Guide document is provided

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-81: Document Format

Summary:

Verify that all documents follow consistent template for same/similar information

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-82: Packages List

#### Summary:

Verify that the DevKit includes a list of packages contained in each filesystem image.

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-83: PinMux Utility Usage

#### Summary:

Verify that the procedure to use the PinMux utility is provided

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

#### Test Case amsdkA-84: Serial Flash Utility Usage

Summary:

Verify that the procedure to use the Serial Flash utility is provided

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

## 6 Test Suite : Kitting

#### Test Case amsdkA-51: Review DevKit components with the legal team

Summary:

All components in the DevKit shall be reviewed by the legal team to identify any possible incompatibility.

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**  
Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead

### Test Case amsdkA-52: Review SW Manifest with OSRB

Summary:

Software manifests shall be reviewed and approved by the OSRB

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**  
Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead

### Test Case amsdkA-53: DevKit Content

Summary:

Devkit content should be complete (see expected results section)

Expected Results:

Â· Source  
Â· 2.6.32 Kernel  
Â· u-boot  
Â· x-loader  
Â· SGX SDK Installer  
Â· Pre-built binaries  
Â· AM35x\_EVM  
Â· uImage  
Â· u-boot  
Â· x-loader.bin.ift  
Â· MLO  
Â· AM37x\_OMAP35x\_EVM  
Â· uImage

## testreport AM3517\_Gingerbread\_2.3.4\_Devkit\_2.1

Â· u-boot  
Â· x-loader.bin.ift  
Â· MLO  
Â· Beagleboard  
Â· uImage  
Â· u-boot  
Â· x-loader.bin.ift  
Â· MLO  
Â· Filesystem  
Â· rootfs.tar.gz (no integrated SGX, need to install separately)  
Â· Tools  
Â· ARM Tool Chain (pre-built - pulled from Android)  
Â· PinMux-utility  
Â· AM35x  
Â· AM37x  
Â· OMAP35x  
Â· Flashing utility  
Â· OMAP35x\_AM37x  
Â· AM35x  
Â· mk-mmc-image.script  
Â· Documentation  
Â· DevKit user guide  
Â· Release notes  
Â· Android Rowboat Porting Guide  
Â· CTS Report  
Â· DevKit Test Report  
Â· Android Rowboat Manifest  
Â· Datasheet

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### Test Case amsdkA-77: Android Devkit apk file

Summary:

Verify that Android Package (.apk) file is provided for the DevKit

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

#### Test Case amsdkA-79: Download Page

Summary:

Verify that the DevKit installer is distributed from TI's download page and that md5 checksums are provided for all the downloadable files

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

#### Test Case amsdkA-80: arowboat.org Download Link

Summary:

Verify that a link to TI's product download page is provided on  
arrowboat.org

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

## 7 Test Suite : Tools

### Test Case amsdkA-61: Pinmux Utility

Summary:

Verify that a PinMux Utility is provided and it works

Steps:

Use the pinmux utility to generate a header file and use the  
generated-header file to built Uboot.

Expected Results:

Uboot should build and the enabled IPs should work after booting the DUT

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**  
Build BD\_GIN\_2.3.4\_DEVKIT\_3517  
Tester gt\_amsdk\_lead

### Test Case amsdkA-62: Flashing Utility

Summary:

Verify that a Flashing Utility is provided and the primary/secondary bootloaders can be flashed to the DUT

Steps:

Flash Uboot to DUT and verify the DUT boots fine.

Test execution  
engine:

Test script or  
logic:

Required hardware  
assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**  
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Tester gt\_amsdk\_lead

### Test Case amsdkA-63: Bootable-MMC/SD-Card-Generation script

Summary:

Verify that a script to generate a bootable MMC/SD card is provided and works fine.

Steps:

Generate a bootable MMC/SD card using the script and boot the DUT from MMC/SD

Test execution  
engine:

Test script or  
logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-291: Fastboot utility

Summary:

Validate fastboot

Steps:

Following the steps in the user guide, validate fastboot functionality

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

## 8 Test Suite : Functionality

### 8.1 Test Suite : SGX SDK



### Test Case amsdkA-69: SGX Demos

Summary:

Validate that Graphics Demo Application(s) is provided and runs fine.

Steps:

Run provided SGX demos

Expected Results:

Graphics display w/out artifacts and an appropriate rate

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

## 8.2 Test Suite : System

### Test Case amsdkA-70: System boot

Summary:

Verify that DUT boots fine w/ provided x-loader, u-boot, uImage and root filesystem

Steps:

1. Flash x-loader and u-boot to DUT using serial flashing utility
2. Set uboot environment to load provided uImage and use provided root filesystem
3. Boot the DUT

Expected Results:

DUT should boot fine and Android Home page should be shown

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### **Test Case amsdkA-71: System boot w/ console**

Summary:

Verify that DUT boots fine w/ provided x-loader, u-boot, uImage and root filesystem and upon booting the Android console is available in the UART port

Steps:

1. Flash x-loader and u-boot to DUT using serial flashing utility
2. Set uboot environment to load provided uImage and use provided root filesystem
3. Boot the DUT
4. type "ls" in the UART console

Expected Results:

DUT should boot fine and Android console should be available in the UART port.

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

### Test Case amsdkA-86: OOB Demos

Summary:

Validate that the system provides icons to Demo Apps in the wallpaper upon booting

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead

### Test Case amsdkA-87: RootFS over NFS

Summary:

Validate that the DUT boots fine when using root filesystem over NFS

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application

parameters:

Test Equipment

parameters:

test case approver:

Last Result: **Passed**

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Tester gt\_amsdk\_lead

## 8.3 Test Suite : Video

### Test Case amsdkA-413: Software-VRFB

Summary:

Test software based VRFB functionality.

Steps:

Using the Gallery app display a video in portrait and landscape orientations:

1)Send the video decode intent using the following command:

```
adb shell am start -W -n com.cooliris.media/.MovieView -a  
action.intent.ancion.VIEW -d <video path in dut> --ei  
android.intent.extra.screenOrientation <0 (landscape) or 1 (portrait)>.
```

For example,

```
adb shell am start -W -n com.cooliris.media/.MovieView -a  
action.intent.ancion.VIEW -d  
/mnt/sdcard/Video/big_buck_bunny_cif_mpeg4_aac.mp4 --ei  
android.intent.extra.screenOrientation 0
```

2)Verify that the video is displayed with the orientation specified.

Expected Results:

The video should be displayed with the orientation specified

Test execution

engine:

Test script or

logic:

Required hardware

assets:

DUT parameters:

Application  
parameters:

Test Equipment  
parameters:

test case approver:

Last Result: **Passed**

Build BD\_GIN\_2.3.4\_DEVKIT\_3517

Tester gt\_amsdk\_lead