

Texas Instruments  
amsdk\_android

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Beaglebone\_ICS\_4.0.3

Test Report

Project: amsdk\_android

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2009 (c) Testlink Community

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Music application lists songs.

Music application lists Songs from External Storage and Recorded

Camera will be part of Android DevKit core applications

Dev Tools will be part of Android DevKit core applications

ICONS for standard applications will be placed on main window

Security will be turned ON in Android Layer

Links to support infrastructure on e2e and rowboat to be provided

Email will be part of Android DevKit core applications

Calendar will be part of Android DevKit core applications

Android home screen contains Launcher -

Android home screen contains Global Search Bar

Android Home Screen contains Tips widget to give important Tips

Additional Widgets can be added to Home Screen by a long press on

Multiple Home Screen (5 Screens)

Slidable Status bar

Wallpaper can be changed

Keypad contains HOME, BACK, POWER and MENU Keys.

Gallery will be part of Android DevKit core applications

Launcher will be part of Android DevKit core applications

Global Search will be part of Android DevKit core applications

Settings application helps to configure Sound, Display and various OOB settings

IO

Android DevKit supports Mouse

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Android DevKit supports Cortex A8 ARM up to Maximum Frequency

Android DevKit supports SGX up to Maximum Frequency

# 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.

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	Tests Passed 16926 Tests Failed 391 Tests Timed out 0 Tests Not Executed 0

# 2 Test Suite : Compatibility

This test suite tries to validate system compatibility with Android per Google's Compatibility Definition Document (CDD) available at

<http://source.android.com/compatibility/android-2.1-cdd.pdf>

## 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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead  
Testing notes failed: 3 test(s)  
failed: 030-bad-finalizer  
failed: 071-dexfile  
failed: 089-jumbo-opcodes

#### **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

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Does not compile

#### **Test Case amsdkA-386: Apps for android AnyCut App**

Summary:

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

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

**Test Case amsdkA-391: Apps for android Panoramio App**

Summary:

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

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Failure [INSTALL\_FAILED\_MISSING\_SHARED\_LIBRARY]

### 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

### Test Case amsdkA-393: Apps for android Radar App

Summary:

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

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Failure [INSTALL\_FAILED\_MISSING\_SHARED\_LIBRARY]

### Test Case amsdkA-394: Apps for android RingsExtended App

Summary:

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

Steps:

- 1) instal RingsExtended apk
- 2) on the launcher open setting
- 3) select sound-> Phone Rington->Rings Extended then test the functions.

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

### Test Case amsdkA-233: Replica Island

Summary:

Run Replica Island Game

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

## 2.2 Test Suite : Development Tools

### Test Case amsdkA-14: ADB USB

Summary:

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

Expected Results:

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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

### 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)

Last Result: **Passed**

Build 2012-04-04

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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

## 2.3 Test Suite : Multimedia

### 2.3.1 Test Suite : Image

#### 2.3.1.1 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

Last Result: **Passed**

Build 2012-04-04

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

Last Result:	<b>Passed</b>
Build	2012-04-04
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

Last Result:	<b>Passed</b>
Build	2012-04-04
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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

## 2.3.2 Test Suite : Video

### 2.3.2.1 Test Suite : Decode

#### Test Case amsdkA-44: H.263

Summary:

H.263 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

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

Summary:

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

Expected Results:

Video file plays fine

Last Result: **Failed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Test case FAIL.

LOG PATH

**Test Case amsdkA-46: MPEG4 SP**

Summary:

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

Expected Results:

Video file plays fine

Last Result: **Failed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Test case FAIL.

LOG PATH

**Test Case amsdkA-772: MPEG4\_352x288\_15mbps\_aac**

Summary:

H.264 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-774: H.264\_704x576\_4mbps\_aac**

Summary:

H.264 files in mpeg4 (.mp4) container

Expected Results:

Video file plays fine

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Test case FAIL.

LOG PATH

**Test Case amsdkA-775: H.264\_640x360\_4mbps\_aac**

Summary:

H.264 files in mpeg4 (.mp4) container

Expected Results:

Video file plays fine

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Test case FAIL.

LOG PATH

**Test Case amsdkA-776: H.264\_352x288\_4mbps\_aac**

Summary:

H.264 files in 3GPP(.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-777: H.263\_352x288\_4mbps\_aac**

Summary:

H.263 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

LOG PATH

**Test Case amsdkA-779: MPEG4\_176x144\_15mbps\_aac**

Summary:

H.264 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

LOG PATH

**Test Case amsdkA-780: MPEG4\_640x360\_15mbps\_aac**

Summary:

MPEG4 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

LOG PATH

**Test Case amsdkA-781: MPEG4\_704x576\_15mbps\_aac**

Summary:

MPEG4 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-782: MPEG4\_720x480\_15mbps\_aac**

Summary:

MPEG4 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-784: H.264\_720x480\_4mbps\_aac**

Summary:

H.264 files in mpeg4 (.mp4) container

Expected Results:

Video file plays fine

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes      Test case FAIL.

LOG PATH

**Test Case amsdkA-787: MPEG4\_BigBuckBunny**

Summary:

MPEG4 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result:      **Passed**

Build              2012-04-04

Tester             gt\_amsdk\_lead

Testing notes      Test case PASS.

LOG PATH

## 3 Test Suite : Performance

This test suite tries to measure key performance metrics in different areas:

1. System
2. Graphics
3. Browser

### 3.1 Test Suite : System

**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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes First boot: 320 sec  
  
Others: 70 sec

### **Test Case amsdkA-593: Quadrant Benchmark**

Summary:

Install and run aurorasoftworks Quadrant benchamrk

Steps:

Install and run Qudrant, and save the results

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

## **3.2 Test Suite : 0xBench**

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

Summary:

0xBench Math Linpack test.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes MathLinpack performance data collected successfully

LOG PATH

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

Summary:

0xBench Math Scimark2 test.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

Testing notes      MathScimark2 performance data collected successfully

LOG PATH

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

Summary:

0xBench 2D Draw Canvas test.

Last Result:      **Passed**

Build              2012-04-04

Tester             gt\_amsdk\_lead

Testing notes      2DDrawCanvas performance data collected successfully

LOG PATH

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

Summary:

0xBench 2D Draw Circle test.

Last Result:      **Passed**

Build              2012-04-04

Tester             gt\_amsdk\_lead

Testing notes      2DDrawCircle performance data collected successfully

LOG PATH

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

Summary:

0xBench 2D Draw Circle2 test.

Last Result:      **Passed**

Build              2012-04-04

Tester             gt\_amsdk\_lead

Testing notes      2DDrawCircle2 performance data collected successfully

LOG PATH

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

Summary:

0xBench 2D Draw Rect test.

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes 2DDrawRect performance data collected successfully

LOG PATH

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

Summary:

0xBench 2D Draw Arc test.

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes 2DDrawArc performance data collected successfully

LOG PATH

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

Summary:

0xBench 2D Draw Image test.

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes 2DDrawImage performance data collected successfully

LOG PATH

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

Summary:

0xBench2D Draw Text test.

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes 2DDrawText performance data collected successfully

LOG PATH

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

Summary:

0xBench 3D OpenGL Cube test.

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLCube performance data collected successfully

LOG PATH

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

Summary:

0xBench 3D OpenGL Blending test.

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLBlending performance data collected successfully

LOG PATH

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

Summary:

0xBench 3D OpenGL Fog test.

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLFog performance data collected successfully

LOG PATH

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

Summary:

0xBench 3D OpenGL Flying Teapot test.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes 3DOpenGLTeapot performance data collected successfully

LOG PATH

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

Summary:

0xBench VM Garbage Collection test.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes VMGC performance data collected successfully

LOG PATH

## **3.3 Test Suite : Netperf**

Tool to measure TCP/UDP bandwidth.

More information available at <http://www.netperf.org/netperf/NetperfPage.html>

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

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)

## testreport Beaglebone\_ICS\_4.0.3

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

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 16384 87.75

### LOG PATH

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

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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 32768 88.28

LOG PATH

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

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

Last Result: **Passed**  
Build 2012-04-04

Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 65536 88.77

LOG PATH

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

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"

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 131072 89.38

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"

Last Result:	<b>Failed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	Performance is less than 30.0 Mb/s. AVG Throughput=0.41 Buffer Size Throughput 256 0.41

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

Last Result:	<b>Failed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	Performance is less than 30.0 Mb/s. AVG Throughput=0.41 Buffer Size Throughput 512 0.41

#### 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

Last Result: **Failed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Performance is less than 30.0 Mb/s. AVG Throughput=0.41 Buffer Size Throughput 1024 0.41

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"

Last Result: **Passed**

Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 4096 77.9

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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 8192 87.39

LOG PATH

## 3.4 Test Suite : Browser

Measure browser performance using publicly available tools.

### 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.

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

LOG PATH

### Test Case amsdkA-115: Sunspider test

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>

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-263: Kraken test**

Summary:

Measure Browser Javascript performance by running  
<http://krakenbenchmark.mozilla.org/index.html> tests

Steps:

Run automated test or manually open the browser and go to  
<http://krakenbenchmark.mozilla.org/index.html>

Last Result: **Failed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes SIGTERM

LOG PATH

**Test Case amsdkA-264: V8 Browser performance test**

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.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

## 3.5 Test Suite : RowboPerf

Various Performance metrics

### Test Case amsdkA-118: Dhrystone

Summary:

Measure Dhrystone bechmark

Steps:

Run RowboPerf's Dhrystone application

Expected Results:

As good or better than previous

Last Result: **Passed**  
Build 2012-04-04  
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

Last Result: **Passed**  
Build 2012-04-04  
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

Last Result:      **Passed**

Build              2012-04-04

Tester             gt\_amsdk\_lead

Testing notes      Test case PASS.

LOG PATH

## 3.6 Test Suite : adb

Android Debug Bridge performance.

Before running each automated test case, the user MUST set enable in the target and in the host PC, the desire adb connection type (i.e. usb or ethernet).

The test cases do not take care of setting the adb type but instead will use the default adb connectivity available.

**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

Last Result:      **Passed**

Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Mean-TX=2903.4 Mean-RX=5271.2

LOG PATH

**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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Mean-TX=2437.8 Mean-RX=3533.9

LOG PATH

## 3.7 Test Suite : Storage

Read and Write performance tests

### 3.7.1 Test Suite : USB

**Test Case amsdkA-265: USB vfat partition write/read test with a block size of 512 bytes and a file of size 104857600 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-266: USB vfat partition write/read test with a block size of 4096 bytes and a file of**

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

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

USB 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 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 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

Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

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

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

#### Expected Results:

Throughput should be as goog or better than the last release

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

#### LOG PATH

#### **Test Case amsdkA-268: USB vfat partition write/read test with a block size of 65536 bytes and a file o**

#### 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 65536 bytes and a file of size 104857600 bytes

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

USB 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 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 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

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

LOG PATH

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

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 goog or better than the last release

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-270: USB vfat partition write/read test with a block size of 1048576 bytes and a file**

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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-888: USB vfat partition write/read test with a block size of 102400 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

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

Original name

## testreport Beaglebone\_ICS\_4.0.3

USB vfat partition write/read test with a block size of 102400 bytes and a file of size 104857600 bytes

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

USB vfat partition write/read test with a block size of 102400 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 102400 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-889: USB vfat partition write/read test with a block size of 262144 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

## testreport Beaglebone\_ICS\_4.0.3

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 262144 bytes and a file of size 104857600 bytes

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

USB vfat partition write/read test with a block size of 262144 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 262144 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-890: USB vfat partition write/read test with a block size of 5242880 bytes and a file**

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 5242880 bytes and a file of size 104857600 bytes

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

USB vfat partition write/read test with a block size of 5242880 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 5242880 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

## 3.7.2 Test Suite : MMC/SD

### Test Case amsdkA-277: MMC/SD vfat partition write/read test with a block size of 512 bytes and a file

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

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

MMC/SD 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 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 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 good or better than the last release

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead  
Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-278: MMC/SD vfat partition write/read test with a block size of 4096 bytes and a file**

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

Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-279: MMC/SD vfat partition write/read test with a block size of 16384 bytes and a file**

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 good or better than the last release

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-280: MMC/SD vfat partition write/read test with a block size of 65536 bytes and a file**

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 good or better than the last release

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-281: MMC/SD vfat partition write/read test with a block size of 524288 bytes and a fi**

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

Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-282: MMC/SD vfat partition write/read test with a block size of 1048576 bytes and a f**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (107 chars) > 100 => has been truncated

Original name

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

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

MMC/SD 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 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 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 good or better than the last release

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-891: MMC/SD vfat partition write/read test with a block size of 5242880 bytes and a file**

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 5242880 bytes and a file of size 104857600 bytes

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

MMC/SD vfat partition write/read test with a block size of 5242880 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 5242880 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-892: MMC/SD vfat partition write/read test with a block size of 102400 bytes and a file**

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 102400 bytes and a file of size 104857600 bytes

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

MMC/SD vfat partition write/read test with a block size of 102400 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 102400 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-893: MMC/SD vfat partition write/read test with a block size of 262144 bytes and a file**

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 262144 bytes and a file of size 104857600 bytes

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

MMC/SD vfat partition write/read test with a block size of 262144 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 262144 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

## 4 Test Suite : Stress

### 4.1 Test Suite : Monkey

Monkey tool

#### 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

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Broken pipe

LOG PATH

## 4.2 Test Suite : media

### Test Case amsdkA-671: Android Video play

Summary:

This test case stress the video play application.

Steps:

- 1) make sure Test automation frame is up and running.
- 2) Make sure platform is configured, adb running
- 3) Select the test case and run the ruby stress application

the script does install the video clip and start the videointent and at the end checkes for system integrity.

Expected Results:

Application should run for the specified time wirh out problem.

Last Result:	<b>Failed</b>
Build	2012-04-04
Tester	gt_amsdk_lead
Testing notes	SIGTERM

LOG PATH

## 4.3 Test Suite : Browser

Browser Stress test

### Test Case amsdkA-602: Browser Stres test

Steps:

run script

Expected Results:

test run 100%

Last Result: **Failed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes SIGTERM

LOG PATH

## 4.4 Test Suite : Graphics

Graphics related stress test.

### Test Case amsdkA-603: Graphics Stress Test

Summary:

This test case stress the system by running all graphics application for a number of iteration.

Steps:

run the ruby script

Expected Results:

test should run 100%

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

### Test Case amsdkA-605: Graphics and Video Stress Test

Summary:

The test cases stresses the system running graphics and video applications.

Steps:

run rub script

Expected Results:

must run 100%

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Graphics Stress Test=100.0

LOG PATH

## 4.5 Test Suite : LAN

Stress test area for LAN

### **Test Case amsdkA-607: LAN\_data and Video/audio playing for long time**

Summary:

Data is send over the LAN while video is playing.

Steps:

run applilcation script

Expected Results:

video quality and throughput should not be compromized.

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

### **Test Case amsdkA-663: 2-hr Network Stream Test**

Summary:

Network Stream test

Last Result: **Failed**

Build 2012-04-04

Tester gt\_amsdk\_lead

Testing notes Streaming not working for some files

### **Test Case amsdkA-756: 5-min LAN\_data and Video/audio playing for long time**

Summary:

Data is send over the LAN while video is playing.

Steps:

run applilcation script

Expected Results:

video quality and throughput should not be compromised.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

**Test Case amsdkA-763: 5-min Network Stream Test**

Summary:

Network Stream test

Last Result: **Failed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes Iteration 1, Stream FILE@TS/big\_buck\_bunny\_480p\_surround-fix.avi did not play or did not finish on the expected time execution expired

LOG PATH

## 4.6 Test Suite : Device IO

**Test Case amsdkA-1067: 2-hr File copy Stress test between peripherals**

Summary:

File copy Stress test between peripherals, this test verifies multiple file copies between board peripherals for a long period of time

Expected Results:

All copy operations should be successful and all the files copied should be identical

Last Result: **Failed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead  
Testing notes no implicit conversion from nil to integer

LOG PATH

## 5 Test Suite : Documentation

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

Summary:

Verify that a DevKit Users Guide document is provided

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

### Test Case amsdkA-55: Release Notes

Summary:

Verify that a Release Notes are provided

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

### Test Case amsdkA-56: Porting Guide

Summary:

Verify that an Android Rowboat Porting Guide document is provided

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

### Test Case amsdkA-57: CTS Report

Summary:

Verify that a CTS report is provided

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

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

Summary:

Verify that a DevKit Test Report is provided

Last Result:	<b>Passed</b>
Build	2012-04-04
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

Last Result:	<b>Passed</b>
Build	2012-04-04
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

Last Result:	<b>Passed</b>
Build	2012-04-04
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

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

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

Summary:

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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

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

Summary:

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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

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

Summary:

Verify that a DevKit Developers Guide document is provided

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-81: Document Format**

Summary:

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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

## **6 Test Suite : Kitting**

#### **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
- 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

Last Result: **Passed**

Build 2012-04-04

Tester gt\_amsdk\_lead

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

Summary:

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

Last Result:	<b>Passed</b>
Build	2012-04-04
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

Last Result:	<b>Passed</b>
Build	2012-04-04
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 arowboat.org

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

## **7 Test Suite : Functionality**

Functional Test cases

### **7.1 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

Last Result: **Passed**  
Build 2012-04-04  
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.

Last Result: **Passed**  
Build 2012-04-04  
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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

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

Summary:

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

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

## **8 Test Suite : Miscellaneous**

This test area list different kinds of test cases.

#### **Test Case amsdkA-610: Music application lists songs.**

Summary:

Music application lists songs based on artists, genre and displays album graphic.

Steps:

- 1) Go to android application browser and start music application.
- 2) Verify that Music application lists songs based on artists, genre and displays album graphic

Expected Results:

All songs must be listed and displayed.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

**Test Case amsdkA-611: Music application lists Songs from External Storage and Recorded**

Summary:

Music application lists Songs from External Storage and Recorded Sounds.

Steps:

- 1) Start android application browser and start music application.
- 2) Music application lists Songs from External Storage and Recorded Sounds

Expected Results:

All songs must be listed and played.

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

**Test Case amsdkA-612: Camera will be part of Android DevKit core applications**

Summary:

Camera will be part of Android DevKit core applications.

Steps:

- 1) verify that Camera is part of Android DevKit core applications.

Expected Results:

Camera is part of DEVKIT core application.

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

**Test Case amsdkA-613: Dev Tools will be part of Android DevKit core applications**

Summary:

Dev Tools will be part of Android DevKit core applications.

Steps:

1) Verify that Dev Tools are be part of Android DevKit core applications.

2) exercise some of dev tools functionality.

Expected Results:

Dev Tools start and functional.

Last Result:       **Passed**  
Build               2012-04-04  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-614: ICONS for standard applications will be placed on main window**

Summary:

ICONS for standard applications will be placed on main window.

Steps:

verify that ICONS for standard applications are placed on main window

Last Result:       **Passed**  
Build               2012-04-04  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-615: Security will be turned ON in Android Layer**

Summary:

Security will be turned ON in Android Layer

Steps:

Verify that Security are turned ON in Android Layer

Last Result:       **Passed**  
Build               2012-04-04  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-619: Links to support infrastructure on e2e and rowboat to be provided**

Summary:

Links to support infrastructure on e2e and rowboat to be provided

Steps:

Verify that Links to support infrastructure on e2e and rowboat to be provided.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

**Test Case amsdkA-620: Email will be part of Android DevKit core applications**

Summary:

Email will be part of Android DevKit core applications

Steps:

Verify that Email is part of Android DevKit core applications

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

**Test Case amsdkA-624: Calendar will be part of Android DevKit core applications**

Summary:

Calendar will be part of Android DevKit core applications.

Steps:

Verify that Calendar part of Android DevKit core applications

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

**Test Case amsdkA-625: Android home screen contains Launcher -**

Summary:

Android home screen contains Launcher - gateway to all applications

Steps:

Verify that Android home screen contains Launcher - gateway to all applications

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

**Test Case amsdkA-626: Android home screen contains Global Search Bar**

Summary:

Android home screen contains Global Search Bar

Steps:

Verify that Android home screen contains Global Search Bar.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

**Test Case amsdkA-627: Android Home Screen contains Tips widget to give important Tips**

Summary:

Android Home Screen contains Tips widget to give important Tips

Steps:

Verify that Android Home Screen contains Tips widget to give important Tips.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

**Test Case amsdkA-628: Additional Widgets can be added to Home Screen by a long press on**

Summary:

Additional Widgets can be added to Home Screen by a long press on the Blank area of Home Screen

Steps:

Verify that Additional Widgets can be added to Home Screen by a long press on the Blank area of Home Screen

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-629: Multiple Home Screen (5 Screens)**

Summary:

Multiple Home Screen (5 Screens)

Steps:

Verify that for Multiple Home Screen (5 Screens)

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-630: Slidable Status bar**

Summary:

Slidable Status bar Indicating Time, System Events on top of the Home Screen

Steps:

Verify that Slidable Status bar Indicating Time, System Events on top of the Home Screen

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-631: Wallpaper can be changed**

Summary:

Wallpaper can be changed by pressing long on the Blank area of Home Screen

Steps:

Verify that Wallpaper can be changed by pressing long on the Blank area of Home Screen

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

**Test Case amsdkA-632: Keypad contains HOME, BACK, POWER and MENU Keys.**

Summary:

Keypad contains HOME, BACK, POWER and MENU Keys.

Steps:

Verify that Keypad contains HOME, BACK, POWER and MENU Keys.

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

**Test Case amsdkA-633: Gallery will be part of Android DevKit core applications**

Summary:

Gallery will be part of Android DevKit core applications

Steps:

Verify that Gallery will be part of Android DevKit core applications

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

**Test Case amsdkA-634: Launcher will be part of Android DevKit core applications**

Summary:

Launcher will be part of Android DevKit core applications

Steps:

Verify that Launcher will be part of Android DevKit core applications.

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

### **Test Case amsdkA-635: Global Search will be part of Android DevKit core applications**

Summary:

Global Search will be part of Android DevKit core applications

Steps:

Verify that Global Search will be part of Android DevKit core applications.

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

### **Test Case amsdkA-636: Settings application helps to configure Sound, Display and various OOB settings**

Summary:

Settings application helps to configure Sound, Display and various OOB settings

Steps:

Verify that Settings application helps to configure Sound, Display and various OOB settings

Last Result:	<b>Passed</b>
Build	2012-04-04
Tester	gt_amsdk_lead

## **9 Test Suite : IO**

IO related manual test cases.

### **Test Case amsdkA-643: Android DevKit supports Mouse**

Summary:

Android DevKit supports Mouse

Steps:

Verify that Android DevKit supports Mouse.

Last Result:	<b>Passed</b>
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Build 2012-04-04  
Tester gt\_amsdk\_lead

## 10 Test Suite : Processor Speed

### **Test Case amsdkA-647: Android DevKit supports Cortex A8 ARM up to Maximum Frequency**

Summary:

Android DevKit supports Cortex A8 ARM up to Maximum Frequency.

Steps:

Verify that Android DevKit supports Cortex A8 ARM up to Maximum Frequency.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead

### **Test Case amsdkA-648: Android DevKit supports SGX up to Maximum Frequency**

Summary:

Android DevKit supports SGX up to Maximum Frequency

Steps:

Verify that Android DevKit supports SGX up to Maximum Frequency.

Last Result: **Passed**  
Build 2012-04-04  
Tester gt\_amsdk\_lead