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Notices for file(s):

/system/lib/libjpeg.so

/system/lib/libjpeg\_static.a

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Version 2.1, February 1999

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```
=====
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```

```
/system/lib/libFraunhoferAAC.a
```

```
-----
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## 1. INTRODUCTION

The Fraunhofer FDK AAC Codec Library for Android ("FDK AAC Codec") is software that implements the MPEG Advanced Audio Coding ("AAC") encoding and decoding scheme for digital audio. This FDK AAC Codec software is intended to be used on a wide variety of Android devices.

AAC's HE-AAC and HE-AAC v2 versions are regarded as today's most efficient general perceptual audio codecs. AAC-ELD is considered the best-performing full-bandwidth communications codec by independent studies and is widely deployed. AAC has been standardized by ISO and IEC as part of the MPEG specifications.

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-----  
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/system/vendor/lib/luapl/Map.lua  
/system/vendor/lib/luapl/MultiMap.lua  
/system/vendor/lib/luapl/OrderedMap.lua  
/system/vendor/lib/luapl/Set.lua  
/system/vendor/lib/luapl/class.lua  
/system/vendor/lib/luapl/compat.lua  
/system/vendor/lib/luapl/lexer.lua

/system/vendor/lib/luapl/pretty.lua  
/system/vendor/lib/luapl/strict.lua  
/system/vendor/lib/luapl/stringx.lua  
/system/vendor/lib/luapl/tablex.lua  
/system/vendor/lib/luapl/types.lua  
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* Changes by the WebRTC authors:
*   - Trivial type modifications.
*   - Minimal code subset to do rdft of length 128.
*   - Optimizations because of known length.
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*/
```

=====

```
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*
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```

\*/

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/*
Some improvements suggested by:
Phil Endecott and Frank Gennari
Cygwin fix provided by:
Scott McMurray
*/

=====

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//  
// See http://www.boost.org/libs/smart\_ptr/scoped\_ptr.htm for documentation.  
//  
  
// scoped_ptr mimics a built-in pointer except that it guarantees deletion  
// of the object pointed to, either on destruction of the scoped_ptr or via  
// an explicit reset(). scoped_ptr is a simple solution for simple needs;  
// use shared_ptr or std::auto_ptr if your needs are more complex.  
  
// scoped_ptr_malloc added in by Google. When one of  
// these goes out of scope, instead of doing a delete or delete[], it  
// calls free(). scoped_ptr_malloc<char> is likely to see much more  
// use than any other specializations.  
  
// release() added in by Google. Use this to conditionally  
// transfer ownership of a heap-allocated object to the caller, usually on
```



```
// method success.
```

```
=====

/*
 * Written by Wilco Dijkstra, 1996.
 * Refer to NOTICE file at the root of git project.
 *
 * Minor modifications in code style for WebRTC, 2012.
 */

// The following email record is related to source files spl_sqrt_floor.c
// and spl_sqrt_floor.s in trunk/src/common_audio/signal_processing/.
//
//
// From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
// Date: Fri, Jun 24, 2011 at 3:20 AM
// Subject: Re: sqrt routine
// To: Kevin Ma <kma@google.com>
// Hi Kevin,
// Thanks for asking. Those routines are public domain (originally posted to
// comp.sys.arm a long time ago), so you can use them freely for any purpose.
// Cheers,
// Wilco
//
// ----- Original Message -----
// From: "Kevin Ma" <kma@google.com>
// To: <Wilco.Dijkstra@ntlworld.com>
// Sent: Thursday, June 23, 2011 11:44 PM
// Subject: Fwd: sqrt routine
// Hi Wilco,
// I saw your sqrt routine from several web sites, including
// http://www.finesse.demon.co.uk/steven/sqrt.html.
```

```
// Just wonder if there's any copyright information with your Successive
// approximation routines, or if I can freely use it for any purpose.
// Thanks.
// Kevin
```

=====

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\* RiscBSD kernel project  
\*  
\* db\_disasm.c



\*  
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Notices for file(s):

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/system/bin/appwidget

/system/framework/appwidget.jar

/system/lib/liblog.a

/system/lib/liblog.so

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/system/bin/mediacodec

/system/bin/mediaextractor

/system/lib/libkeymaster1.so

/system/lib/libkeymaster\_messages.so

/system/lib/libmediacodecservice.so

/system/lib/libmediaextractorservice.so

/system/lib/libsoftkeymasterdevice.so

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Notices for file(s):

/system/lib/libpac.so

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```

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Notices for file(s):

```
/system/etc/permissions/google-api-client.xml
/system/etc/permissions/google-auth-client.xml
/system/etc/permissions/google-http-client.xml
/system/etc/permissions/google-people-api.xml
/system/fonts/Roboto-Black.ttf
/system/fonts/Roboto-BlackItalic.ttf
/system/fonts/Roboto-Bold.ttf
/system/fonts/Roboto-BoldItalic.ttf
/system/fonts/Roboto-Italic.ttf
/system/fonts/Roboto-Light.ttf
/system/fonts/Roboto-LightItalic.ttf
/system/fonts/Roboto-Medium.ttf
/system/fonts/Roboto-MediumItalic.ttf
/system/fonts/Roboto-Regular.ttf
/system/fonts/Roboto-Thin.ttf
/system/fonts/Roboto-ThinItalic.ttf
/system/fonts/RobotoCondensed-Bold.ttf
```



/system/fonts/RobotoCondensed-BoldItalic.ttf  
/system/fonts/RobotoCondensed-Italic.ttf  
/system/fonts/RobotoCondensed-Light.ttf  
/system/fonts/RobotoCondensed-LightItalic.ttf  
/system/fonts/RobotoCondensed-Regular.ttf  
/system/framework/conscrypt.jar  
/system/framework/google-api-client.jar  
/system/framework/google-auth-client.jar  
/system/framework/google-http-client.jar  
/system/framework/google-people-api.jar  
/system/lib/libjavacrypto.so  
/system/lib/libmbedcrypto.a  
/system/lib/libmbedtls.a  
/system/lib/libmbedx509.a  
/system/lib/libsonic.so

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- /system/lib/libfuse.so

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/system/bin/mtpd

/system/framework/bmgr.jar

/system/lib/libttscompat.so

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/system/bin/c\_pie\_openvpn.armeabi-v7a

/system/lib/libovpn.so

/system/lib/libovpnutil.so

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Notices for file(s):

/system/bin/sm

/system/framework/sm.jar

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/system/lib/libc.a

/system/lib/libc.so

/system/lib/libc\_common.a

/system/lib/libc\_logging.a

/system/lib/libc\_nomalloc.a

/system/lib/libstdc++.a

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strchr - find a character in a string

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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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Emulation of getentropy(2) as documented at:

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Theo de Raadt <deraadt@openbsd.org> came up with the idea of using such a mathematical system to generate more random (yet non-repeating) ids to solve the resolver/named problem. But Niels designed the actual system based on the constraints.

Later modified by Damien Miller to wrap the LCG output in a 15-bit permutation generator based on a Luby-Rackoff block cipher. This ensures the output is non-repeating and preserves the MSB twiddle trick, but makes it more resistant to LCG prediction.

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/system/bin/gzip

/system/lib/libz.a  
/system/lib/libz.so

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/system/lib/libavcdec.a

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/system/lib/bluetooth-headers.a
/system/sbin/btmon
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Notices for file(s):

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/system/lib/libfdt.a
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/system/vendor/web/server/lib/querystring.lua

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That's all there is to it!

Version 2, June 1991

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```

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```
=====
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```

```
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```

```
/system/lib/libcurl.so
```

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This version (dng\_sdk 1.4) contains security patches from Google Inc.

The changes were sent to Adobe Inc. (psirt@adobe.com) on Dec. 18th 2015 by kinan@google.com.

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/system/bin/atrace

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Notices for file(s):

/system/bin/content

/system/framework/content.jar

/system/priv-app/FusedLocation/FusedLocation.apk

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/system/bin/racoon

/system/lib/libipsec.a

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sha2.h

Version 1.0.0beta1

Written by Aaron D. Gifford <me@aarongifford.com>

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@(#)queue.h 8.5 (Berkeley) 8/20/94

\$FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp \$

04/24/2004 Backport to v1.45 functionality for ipsec-tools

Heiko Hund <heiko@ist.eigentlich.net>

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Notices for file(s):

/system/bin/dfu-util

/system/bin/mmc\_utils

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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

```
Ty Coon, President of Vice
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```
=====
Notices for file(s):
```

```
/recovery/root/sbin/recovery
```

```
/root/init
```

```
/system/app/Calendar/Calendar.apk
```

/system/app/CertInstaller/CertInstaller.apk  
/system/app/ExtShared/ExtShared.apk  
/system/app/HTMLViewer/HTMLViewer.apk  
/system/app/PrintRecommendationService/PrintRecommendationService.apk  
/system/app/PrintSpooler/PrintSpooler.apk  
/system/app/UserDictionaryProvider/UserDictionaryProvider.apk  
/system/bin/am  
/system/bin/app\_process32  
/system/bin/cmd  
/system/bin/debuggerd  
/system/bin/dexdump  
/system/bin/drmserver  
/system/bin/dumpsys  
/system/bin/hid  
/system/bin/logcat  
/system/bin/logwrapper  
/system/bin/media  
/system/bin/mediaserver  
/system/bin/recovery-persist  
/system/bin/recovery-refresh  
/system/bin/requestsync  
/system/bin/rild  
/system/bin/run-as  
/system/bin/service  
/system/bin/wm  
/system/fonts/AndroidClock.ttf  
/system/fonts/DroidSansMono.ttf  
/system/framework/am.jar  
/system/framework/framework-res.apk  
/system/framework/hid.jar  
/system/framework/ime.jar  
/system/framework/input.jar  
/system/framework/media\_cmd.jar

/system/framework/monkey.jar  
/system/framework/pm.jar  
/system/framework/requestsync.jar  
/system/framework/svc.jar  
/system/framework/wm.jar  
/system/lib/libandroid\_runtime.so  
/system/lib/libandroidfw.so  
/system/lib/libaudioflinger.so  
/system/lib/libaudioresampler.so  
/system/lib/libcamera\_client.so  
/system/lib/libcameraservice.so  
/system/lib/libcutils.a  
/system/lib/libcutils.so  
/system/lib/libdrmframework.so  
/system/lib/libdrmframeworkcommon.a  
/system/lib/libdrmpassthruplugin.so  
/system/lib/libfusesideload.a  
/system/lib/libhardware.so  
/system/lib/libhardware\_legacy.so  
/system/lib/libhwui.so  
/system/lib/libhwui\_static.a  
/system/lib/libinit.a  
/system/lib/liblogwrap.a  
/system/lib/liblogwrap.so  
/system/lib/libmedia.so  
/system/lib/libmedia\_helper.a  
/system/lib/libmedia\_jni.so  
/system/lib/libmediaplayerservice.so  
/system/lib/libmtp.so  
/system/lib/libmusicbundle.a  
/system/lib/libnativehelper.so  
/system/lib/libnetutils.so  
/system/lib/libpixelflinger.so

/system/lib/libpower.so  
/system/lib/libreference-ril.so  
/system/lib/libregistermsex.a  
/system/lib/libreverb.a  
/system/lib/libril.so  
/system/lib/libserviceutility.so  
/system/lib/libsoundpool.so  
/system/lib/libsqlite3\_android.a  
/system/lib/libstagefright.so  
/system/lib/libstagefright\_aacenc.a  
/system/lib/libstagefright\_amrnb\_common.so  
/system/lib/libstagefright\_amrnbdec.a  
/system/lib/libstagefright\_amrnbenc.a  
/system/lib/libstagefright\_amrwbdec.a  
/system/lib/libstagefright\_amrwbenc.a  
/system/lib/libstagefright\_avc\_common.so  
/system/lib/libstagefright\_color\_conversion.a  
/system/lib/libstagefright\_enc\_common.so  
/system/lib/libstagefright\_foundation.so  
/system/lib/libstagefright\_httplive.so  
/system/lib/libstagefright\_id3.a  
/system/lib/libstagefright\_m4vh263dec.a  
/system/lib/libstagefright\_m4vh263enc.a  
/system/lib/libstagefright\_matroska.a  
/system/lib/libstagefright\_mp3dec.a  
/system/lib/libstagefright\_mpeg2ts.a  
/system/lib/libstagefright\_nuplayer.a  
/system/lib/libstagefright\_omx.so  
/system/lib/libstagefright\_rtsp.a  
/system/lib/libstagefright\_soft\_aacdec.so  
/system/lib/libstagefright\_soft\_aacenc.so  
/system/lib/libstagefright\_soft\_amrdec.so  
/system/lib/libstagefright\_soft\_amrnbenc.so



/system/lib/libstagefright\_soft\_amrwbenc.so  
/system/lib/libstagefright\_soft\_flacenc.so  
/system/lib/libstagefright\_soft\_g711dec.so  
/system/lib/libstagefright\_soft\_gsmdec.so  
/system/lib/libstagefright\_soft\_mp3dec.so  
/system/lib/libstagefright\_soft\_mpeg4dec.so  
/system/lib/libstagefright\_soft\_mpeg4enc.so  
/system/lib/libstagefright\_soft\_rawdec.so  
/system/lib/libstagefright\_soft\_vorbisdec.so  
/system/lib/libstagefright\_soft\_vpxdec.so  
/system/lib/libstagefright\_timedtext.a  
/system/lib/libstagefright\_yuv.so  
/system/lib/libui.so  
/system/lib/libutils.a  
/system/lib/libutils.so  
/system/lib/soundfx/libaudiopreprocessing.so  
/system/lib/soundfx/libbundlewrapper.so  
/system/lib/soundfx/libdownmix.so  
/system/lib/soundfx/libreverbwrapper.so  
/system/lib/soundfx/libvisualizer.so  
/system/priv-app/AuerSystemUI/AuerSystemUI.apk  
/system/priv-app/CalendarProvider/CalendarProvider.apk  
/system/priv-app/CellBroadcastReceiver/CellBroadcastReceiver.apk  
/system/priv-app/Contacts/Contacts.apk  
/system/priv-app/ContactsProvider/ContactsProvider.apk  
/system/priv-app/DeskClock/DeskClock.apk  
/system/priv-app/DownloadProvider/DownloadProvider.apk  
/system/priv-app/ExtServices/ExtServices.apk  
/system/priv-app/InputDevices/InputDevices.apk  
/system/priv-app/MediaProvider/MediaProvider.apk  
/system/priv-app/PackageInstaller/PackageInstaller.apk  
/system/priv-app/Phome/Phome.apk  
/system/priv-app/Provision/Provision.apk

/system/priv-app/Settings/Settings.apk

/system/priv-app/SettingsProvider/SettingsProvider.apk

/system/priv-app/TelephonyProvider/TelephonyProvider.apk

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/system/lib/libnl.so

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dhcpd - DHCP client daemon

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compat/arc4random\_uniform.c, compat/arc4random\_uniform.h

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crypt/sha256.c, crypt/sha256.h

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/system/lib/libprotobuf-cpp-lite.so

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/system/bin/ip6tables

/system/bin/iptables

/system/etc/permissions/pjsua2-java.xml

/system/framework/libpjsua2-java.jar

/system/lib/liblzo-static.a

/system/lib/libpjlib-util.a

/system/lib/libpjlib.a

/system/lib/libpjmedia-audiodev.a

/system/lib/libpjmedia-videodev.a

/system/lib/libpjmedia.a

/system/lib/libpjnath.a

/system/lib/libpjsdp.a  
/system/lib/libpjsip-simple.a  
/system/lib/libpjsip-ua.a  
/system/lib/libpjsip.a  
/system/lib/libpjsua-lib.a  
/system/lib/libpjsua2-jni.so  
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/system/bin/setup\_fs

/system/lib/libext4\_utils.so

/system/lib/libext4\_utils\_static.a

/system/lib/libf2fs\_sparseblock.so

/system/lib/libstorage.a

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\* file name: UBiDiProps.java  
\* encoding: US-ASCII  
\* tab size: 8 (not used)  
\* indentation:4  
\*  
\* created on: 2005jan16  
\* created by: Markus W. Scherer  
\*  
\* Low-level Unicode bidi/shaping properties access.  
\* Java port of ubidi\_props.h/.c.

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`Replaceable` is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `charAt()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the `Replaceable` API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the **font**" has range (4, 8) replaced with "strong", then it becomes "the **strong** font".

`Replaceable` specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset `start..limit-1`. That is, the start offset is inclusive, and the limit offset is exclusive.

`Replaceable` also includes API to access characters in the string: `length()`, `charAt()`, `charAt32()`, and `extractBetween()`.

For a subclass to support metadata, typical behavior of `replace()` is the following:

`<ul>`

`<li>Set the metadata of the new text to the metadata of the first character replaced</li>`

`<li>If no characters are replaced, use the metadata of the previous character</li>`

`<li>If there is no previous character (i.e. start == 0), use the`

- following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@stable ICU 2.0

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`ReplaceableString` is an adapter class that implements the `Replaceable` API around an ordinary `StringBuffer`.

*Note:* This class does not support attributes and is not intended for general use. Most clients will need to implement [Replaceable](#) in their text representation class.

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@see Replaceable  
@author Alan Liu  
@stable ICU 2.0

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

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/system/lib/libpcre.so

/system/lib/libpcrecpp.so

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```
/system/lib/libmodpb64.a
```

```
-----
* MODP_B64 - High performance base64 encoder/decoder
```

\* Version 1.3 -- 17-Mar-2006

\* <http://modp.com/release/base64>

\*

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