

Johnson Controls Inc.

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```
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```
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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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91058 Erlangen, Germany

www.iis.fraunhofer.de/amm
amm-info@iis.fraunhofer.de

=====

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/system/lib/libwebrtc_audio_preprocessing.so

=====

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```
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 */
```

```

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```

```

=====

```

```

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```

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```

```
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// http://www.boost.org/LICENSE_1_0.txt)

// See http://www.boost.org/ for updates, documentation, and revision history.
```

```
/*
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
```

```
=====
Notices for file(s):
```

```
/system/lib/libtinyxml.so
/system/lib/libtinyxml2.a
/system/lib/libtinyxml2.so
-----
```

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```
=====
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```

```
/system/framework/apache-xml.jar
-----
```

```
=====
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=====
```

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```
/* $NetBSD: disassem.c,v 1.14 2003/03/27 16:58:36 mycroft Exp $ */
```

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/*_
```

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 *
 * RiscBSD kernel project
 *
 * db_disasm.c
 *
 * Kernel disassembler
 *
 * Created : 10/02/96
 *
 * Structured after the sparc/sparc/db_disasm.c by David S. Miller &
 * Paul Kranenburg
 *
 * This code is not complete. Not all instructions are disassembled.
 */

=====
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- lib/libf2fs_io.c
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`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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=====

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Version 2.1, February 1999

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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```
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```

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```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
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```

Notices for file(s):

```
/system/lib/libstagefrighthw.so
```

```
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```

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/system/bin/mediacodec
 /system/bin/mediaextractor
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 /system/lib/libkeymaster_messages.so
 /system/lib/libmediacodecservice.so

/system/lib/libmediaextractorservice.so
 /system/lib/libsoftkeymasterdevice.so

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 /system/lib/libclcore_debug.bc
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/system/framework/dpm.jar

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/system/lib/libttspico.so

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

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Origin: <http://code.google.com/p/y2038>

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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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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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strtok_r, from Berkeley strtok
Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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Origin: <http://code.google.com/p/y2038>

Modified for Bionic by the Android Open Source Project

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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/lib/libz.so

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Jean-loup Gailly Mark Adler
 jloup@gzip.org madler@alumni.caltech.edu

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Notices for file(s):

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/system/vendor/lib/libmmi.so

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/system/framework/content.jar

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

/system/vendor/lib/libbt-vendor.so

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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):

/recovery/root/sbin/recovery
/root/init
/system/app/CertInstaller/CertInstaller.apk
/system/app/ExtShared/ExtShared.apk
/system/app/Launcher3/Launcher3.apk
/system/app/LiveWallpapersPicker/LiveWallpapersPicker.apk
/system/app/PrintRecommendationService/PrintRecommendationService.apk
/system/app/PrintSpooler/PrintSpooler.apk
/system/app/UserDictionaryProvider/UserDictionaryProvider.apk
/system/app/WAPPushManager/WAPPushManager.apk
/system/bin/am
/system/bin/app_process32
/system/bin/cmd
/system/bin/debuggerd
/system/bin/dexdump
/system/bin/drmservice
/system/bin/dumpsys
/system/bin/hid
/system/bin/logcat
/system/bin/logwrapper
/system/bin/media
/system/bin/mediaserver
/system/bin/requestsync
/system/bin/run-as
/system/bin/service
/system/bin/wm
/system/etc/permissions/android.software.live_wallpaper.xml
/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/drm/libfdwlockengine.so
/system/lib/libandroid_runtime.so
/system/lib/libandroidfw.so
/system/lib/libaudioflinger.so
/system/lib/libaudiorresampler.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/libdrmutility.a
/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
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/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/CalendarProvider/CalendarProvider.apk
/system/priv-app/ContactsProvider/ContactsProvider.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/Settings/Settings.apk
/system/priv-app/SettingsProvider/SettingsProvider.apk
/system/priv-app/SystemUI/SystemUI.apk
/system/priv-app/TeleService/TeleService.apk
/system/priv-app/TelephonyProvider/TelephonyProvider.apk

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From: @(#)s_ilogb.c 5.1 93/09/24

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/system/bin/btnvtool

/system/bin/hci_qcomm_init

/system/vendor/lib/libbtnv.so

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1.

/*

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*/
 * \$Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg \$
 */

File: LLM_sp_sha2.c

/*

* FILE: sha2.h
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 *
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*/
 * \$Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg \$

```
*/
```

```
File: LLM_sp_sha2.h
```

```
=====
=====
```

```
2.
```

```
/* utility to create the register check tables
```

```
* this includes inlined list.h safe for userspace.
```

```
*
```

```
* Copyright 2009 Jerome Glisse
```

```
* Copyright 2009 Red Hat Inc.
```

```
*
```

```
* Authors:
```

```
*   Jerome Glisse
```

```
*   Dave Airlie
```

```
*/
```

```
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```

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```
*/
```

```
File: comm_lib.h
```

```
=====
=====
```

```
3.
```

```
/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*- */
```

```
/* =====
```

```
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```

```
*
```

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* =====
*
*/

```

File Name list: aes.h, aes_locl.h

```

=====
=====

```

4.

```

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */
/**
 * rijndael-alg-fst.c
 *
 *
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
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 */
File: aes_core.c

```

5.

```

/*=====
=====

EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when    who    what, where, why
----- --
11/12/04 rv     changes to correct LINT errors
02/02/04 rwh     Small mods to open source.

=====*/

```

```
/*
```

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael) designed by Joan Daemen and Vincent Rijmen. This version is designed to provide both fixed and dynamic block and key lengths and can also run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of the byte arrays involved, the legal values being 16, 24 and 32.

A. THE CIPHER INTERFACE

```
byte          (an unsigned 8-bit type)
word          (an unsigned 32-bit type)
aes_ret:      (a signed 16 bit type for function return values)
    aes_good   (value != 0, a good return)
    aes_bad    (value == 0, an error return)
enum aes_key: (encryption direction)
    enc        (set key for encryption)
    dec        (set key for decryption)
    both       (set key for both)
class or struct aes (structure for context)
```

C subroutine calls:

```
aes_ret set_blk(const word block_length, aes *cx) (variable block size)
aes_ret set_key(const byte key[], const word key_length,
                const enum aes_key direction, aes *cx)
aes_ret encrypt(const byte input_blk[], byte output_blk[], const aes *cx)
aes_ret decrypt(const byte input_blk[], byte output_blk[], const aes *cx)
```

IMPORTANT NOTE: If you are using this C interface and your compiler does not set the memory used for objects to zero before use, you will need to ensure that cx.mode is set to zero before using the C subroutine calls.

C++ aes class subroutines:

```
aes_ret set_blk(const word block_length) (variable block size)
aes_ret set_key(const byte key[], const word key_length,
                const aes_key direction)
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
```

```
aes_ret decrypt(const byte input_blk[], byte output_blk[]) const
```

The block length inputs to `set_block` and `set_key` are in numbers of BYTES, not bits. The calls to subroutines must be made in the above order but multiple calls can be made without repeating earlier calls if their parameters have not changed. If the cipher block length is variable but `set_blk` has not been called before cipher operations a value of 16 is assumed (that is, the AES block size). In contrast to earlier versions the block and key length parameters are now checked for correctness and the encryption and decryption routines check to ensure that an appropriate key has been set before they are called.

B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The input, the output and the key input are all enumerated arrays of bytes in which bytes are numbered starting at zero and increasing to one less than the number of bytes in the array in question. When these inputs and outputs are considered as bit sequences, the n 'th byte contains bits $8n$ to $8n+7$ of the sequence with the lower numbered bit mapped to the most significant bit within the byte (i.e. that having a numeric value of 128). However, Rijndael can be implemented more efficiently using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs. The byte order used internally is set by defining `INTERNAL_BYTE_ORDER` whereas the order for all inputs and outputs is specified by defining `EXTERNAL_BYTE_ORDER`, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order. In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.

```
#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN
```

C. COMPILATION

To compile AES (Rijndael) for use in C code

- a. Exclude the `AES_DLL` define in `aes.h`
- b. Exclude the `AES_IN_CPP` define in `aes.h`

To compile AES (Rijndael) for use in C++ code

- a. Exclude the `AES_DLL` define in `aes.h`
- b. Include the `AES_IN_CPP` define in `aes.h`

To compile AES (Rijndael) in C as a Dynamic Link Library

- a. Include the AES_DLL define in aes.h
- b. Compile the DLL. If using the test files, exclude aes.c from the test build project and compile it with the same defines as used for the DLL (ensure that the DLL path is correct)

D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK_SIZE to set the cipher block size (16, 24 or 32) or leave this undefined for dynamically variable block size (this will result in much slower code).
2. set AES_IN_CPP to use the code from C++ rather than C
3. set AES_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL_BYTE_ORDER to one of the above constants to set the internal byte order (the order used within the algorithm code)
5. set EXTERNAL_BYTE_ORDER to one of the above constants to set the byte order used at the external interfaces for the input, output and key byte arrays.

IMPORTANT NOTE: BLOCK_SIZE is in BYTES: 16, 24, 32 or undefined for aes.c and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a slower version providing variable block length is compiled

```
#define BLOCK_SIZE 16
```

Define AES_IN_CPP if you intend to use the AES C++ class rather than the C code directly.

```
#define AES_IN_CPP
```

Define AES_DLL if you wish to compile the code to produce a Windows DLL

```
#define AES_DLL
```

```
*/
```

File: aes.h

```
/*=====
```

EDIT HISTORY FOR FILE

```
$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $
```

when who what, where, why

```
-----
```

```
11/12/04  rv    changes to correct LINT errors
02/02/04  rwh   Small mods to open source.
```

```

===== */
/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */

```

```

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```

Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

```

*/
File: aes_tab.h

```

```

=====
=====
6.
=====
=====
#FILE:Conftest.py
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#
#
# The purpose of this module is to define how a check is to be performed.

```

```

# Use one of the Check...() functions below.
#

#
# A context class is used that defines functions for carrying out the tests,
# logging and messages. The following methods and members must be present:
#
# context.Display(msg) Function called to print messages that are normally
#       displayed for the user. Newlines are explicitly used.
#       The text should also be written to the logfile!
#
# context.Log(msg)    Function called to write to a log file.
#
# context.BuildProg(text, ext)
#       Function called to build a program, using "ext" for the
#       file extension. Must return an empty string for
#       success, an error message for failure.
#       For reliable test results building should be done just
#       like an actual program would be build, using the same
#       command and arguments (including configure results so
#       far).
#
# context.CompileProg(text, ext)
#       Function called to compile a program, using "ext" for
#       the file extension. Must return an empty string for
#       success, an error message for failure.
#       For reliable test results compiling should be done just
#       like an actual source file would be compiled, using the
#       same command and arguments (including configure results
#       so far).
#
# context.AppendLIBS(lib_name_list)
#       Append "lib_name_list" to the value of LIBS.
#       "lib_namelist" is a list of strings.
#       Return the value of LIBS before changing it (any type
#       can be used, it is passed to SetLIBS() later.)
#
# context.PrependLIBS(lib_name_list)
#       Prepend "lib_name_list" to the value of LIBS.
#       "lib_namelist" is a list of strings.
#       Return the value of LIBS before changing it (any type
#       can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
#       Set LIBS to "value". The type of "value" is what
#       AppendLIBS() returned.
#       Return the value of LIBS before changing it (any type
#       can be used, it is passed to SetLIBS() later.)
#

```

```

# context.headerfilename
#       Name of file to append configure results to, usually
#       "confdefs.h".
#       The file must not exist or be empty when starting.
#       Empty or None to skip this (some tests will not work!).
#
# context.config_h   (may be missing). If present, must be a string, which
#       will be filled with the contents of a config_h file.
#
# context.vardict     Dictionary holding variables used for the tests and
#       stores results from the tests, used for the build
#       commands.
#       Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict    Dictionary holding results from the tests that are to
#       be used inside a program.
#       Names often start with "HAVE_". These are zero
#       (feature not present) or one (feature present). Other
#       variables may have any value, e.g., "PERLVERSION" can
#
=====
=====
=====
Notices for file(s):
/system/bin/fsck_msdos
-----
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/system/lib/libmimncrypt.a

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/system/lib/libmemalloc.so

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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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<code>Replaceable</code> 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 `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the bold"

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()`, `char32At()`, and `extractBetween()`.

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

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- 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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@author Alan Liu
@stable ICU 2.0

`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
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