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```

```
-----
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 * Changes:
 * Trivial type modifications by the WebRTC authors.
```

*/

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// 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
```

=====

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

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*
* db_disasm.c

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

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Notices for file(s):

/system/bin/appops

/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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- /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/bin/ping6

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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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/system/fonts/NotoNaskhArabic-Regular.ttf
/system/fonts/NotoNaskhArabicUI-Bold.ttf
/system/fonts/NotoNaskhArabicUI-Regular.ttf
/system/fonts/NotoSansArmenian-Bold.ttf
```

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/system/fonts/NotoSansBalinese-Regular.ttf
/system/fonts/NotoSansBamum-Regular.ttf
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/system/fonts/NotoSansTibetan-Bold.ttf

/system/fonts/NotoSansTibetan-Regular.ttf
/system/fonts/NotoSansTifinagh-Regular.ttf
/system/fonts/NotoSansVai-Regular.ttf
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/system/bin/sm

/system/framework/sm.jar

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/system/lib/libc_common.a

/system/lib/libc_logging.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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strtok_r, from Berkeley strtok

Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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Emulation of getentropy(2) as documented at:

<http://www.openbsd.org/cgi-bin/man.cgi/OpenBSD-current/man2/getentropy.2>

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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/bluetooth-headers.a
/system/sbin/btmon
```


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```
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/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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/system/bin/dfu-util

/system/bin/mmc_utils

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```

```
Ty Coon, President of Vice
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```
=====
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```

```
/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/libfusesideloop.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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/system/lib/libilbc.so

TODO

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Notices for file(s):

/system/lib/libprotobuf-c-nano-enable_malloc.a

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Notices for file(s):

/system/bin/dhcpd-6.8.2

dhcpd - DHCP client daemon

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dhcp_bpf_filter taken from bpf.c in dhcp-3.1.0

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

compat/arc4random_uniform.c, compat/arc4random_uniform.h

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crypt/sha256.c, crypt/sha256.h

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/system/lib/libdl.a

/system/lib/libdl.so

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/system/lib/libft2_static.a

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--- end of FTL.TXT ---

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Notices for file(s):

/system/lib/luajit/luajit-bit.so

Lua BitOp -- a bit operations library for Lua 5.1/5.2.

<http://bitop.luajit.org/>

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Notices for file(s):

/system/vendor/web/server/lib/weblit-router.lua

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/system/bin/applypatch

/system/lib/libapplypatch.a

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bsdiff.c

bspatch.c

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/system/lib/luajit/luajit-cjson.so

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Notices for file(s):

/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
/system/lib/libpjsua2.a

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/system/bin/telecom

/system/framework/telecom.jar

/system/lib/libfec.a

/system/lib/libsquashfs_utils.a

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/system/bin/setup_fs

/system/lib/libext4_utils.so

/system/lib/libext4_utils_static.a

/system/lib/libf2fs_sparseblock.so

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/system/lib/libavcodec.so

/system/lib/libavutil.a

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*
* created on: 2005jan16
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* Low-level Unicode bidi/shaping properties access.
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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()`, `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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@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

bzip2/libbzip2 version 1.0.6 of 6 September 2010

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/system/lib/libpcrecpp.so

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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

```
-----
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```

* Version 1.3 -- 17-Mar-2006

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

*

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