Last modified at: 2016-06-10 16:35

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http://zlib.net/

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http://upx.sourceforge.net/

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https://code.google.com/archive/p/msinttypes/

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https://github.com/google/protobuf/

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 * MODP_B64 - High performance base64 encoder/decoder
 * Version 1.3 -- 17-Mar-2006
 * http://modp.com/release/base64
 *
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https://github.com/google/open-vcdiff

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========== Component: url_parse
http://mxr.mozilla.org/comm-central/source/mozilla/netwerk/base/src/nsURLParsers.cpp

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http://valgrind.org

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========== Component: xdg-user-dirs
http://www.freedesktop.org/wiki/Software/xdg-user-dirs

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========== Modifications: Darwin
Name: Darwin
URL: http://www.opensource.apple.com/
Version: unknown

Security Critical: yes
License: Apple Public Source License 2.0

Four files are excerpted here:

malloc.h from:
http://www.opensource.apple.com/source/Libc/Libc-763.11/include/malloc/malloc.h

Modifications:
- Modified #ifdef guards.
- Removed everything but the definition of malloc_zone_t.
- Renamed _malloc_zone_t to ChromeMallocZone to avoid possible name conflicts.

CFRuntime.h from:
http://www.opensource.apple.com/source/CF/CF-635/CFRuntime.h

Modifications:
- Modified #ifdef guards.
- Removed everything but the definition of CFRuntimeBase.
- Renamed CFRuntimeBase to ChromeCFRuntimeBase to avoid possible name conflicts.

CFBase.h from:
http://www.opensource.apple.com/source/CF/CF-550/CFBase.c
http://www.opensource.apple.com/source/CF/CF-635/CFBase.c

Modifications:
- Renamed the file to CFBase.h.
- Added #ifdef guards.
- Added an #include of the CFRuntime.h file.
- Removed everything but the definition of __CFAllocator.
- Modified the reference of CFRuntimeBase to ChromeCFRuntimeBase.
- Renamed __CFAllocator to ChromeCFAllocatorLeopards (from CF-550) and to
  ChromeCFAllocatorLions (from CF-635) to avoid possible name conflicts.

cssmapplePriv.h from:
http://www.opensource.apple.com/source/libsecurity_cssm/libsecurity_cssm-31536/lib/cssmapplePriv.h

Warning: Technically, this is a private Apple header, and as such provides no
guarantee for API stability. However, the use of this header is the only way
to implement OCSP checking per Apple's public documentation on the usage of
their Trust Policy Module. Further, the use of this private header is

the
recommended approach from Apple for modifying OCSP policies.

See: http://developer.apple.com/documentation/Security/Reference/
SecAppleTrustPolicyModuleSpec/
Apple_Trust_Policy_Module_Functional_Specification.pdf
and http://lists.apple.com/archives/apple-cdsa/2008/Aug/msg00008.html

Modifications:
- Removed unneeded definitions for internal Apple CSP DL enums and
structs
- Added a suppression for the warning "-Wdeprecated-declarations"
since CSSM
  APIs are deprecated since OSX 10.7.

dnsinfo.h from:
http://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/
dnsinfo.h

Provides dns_config_t which is used by /net/dns/
dns_config_service_posix.cc to
obtain system DNS configuration on Mac OS X. This private header is
also used by
Apple's open source mDNSResponder.

Modifications:
- Removed Availability.h and the corresponding macros.
========== Modifications: icu
Name: icu
URL: http://site.icu-project.org/
Version: 56.1
License: MIT
Security Critical: yes

Description:
This directory contains the source code of ICU 56.1 for C/C++.

A. How to update ICU

1. Run "scripts/update.sh <version>" (e.g. 56-1).
   This will download ICU from the upstream svn repository.
   It does preserve Chrome-specific build files (*local.mk) and
   converter files. (see section C)

2. Update the source file lists for i18n and common
   in icu.gypi and BUILD.gn. See the comments in the files.

3. Review and apply patches/changes in "D. Local Modifications" if
   necessary/applicable. Update patch files in patches/.

4. Follow the instructions in section B on building ICU data files

B. How to build ICU data files

Pre-built data files are generated and checked in with the following steps

1. icu data files for Chrome OS, Linux, Mac and Windows

  a. Make a icu data build directory outside the Chromium source tree
     and cd to that directory (say, $ICUBUILDIR).

  b. Run

    ${CHROME_ICU_TREE_TOP}/source/runConfigureICU Linux --disable-layout

  c. Run make
     'make' will fail when pkgdata looks for css3transform.res. This
     is expected. See http://bugs.icu-project.org/trac/ticket/10570

  d. Run
       ${CHROME_ICU_TREE_TOP}/scripts/trim_data.sh

    The full locale data for Chrome's UI languages and their select variants
    and the bare minimum locale data for other locales will be kept.

  e. Run
       ${CHROME_ICU_TREE_TOP}/scripts/make_data.sh

     This makes icudt${version}l.dat.

  f. Run
       ${CHROME_ICU_TREE_TOP}/scripts/copy_data.sh

     This copies the ICU data files for non-Android platforms
     (both Little and Big Endian) to the following locations:

     common/icudtl.dat
     common/icudtb.dat

  g. Run
       ${CHROME_ICU_TREE_TOP}/android/patch_locale.sh

    On top of trim_data.sh (step d), further cuts the data entries for Android.

```
  h. Run
       ${CHROME_ICU_TREE_TOP}/scripts/make_data.sh

     This makes icudt${version}l.dat for Android.

  i. Run
       ${CHROME_ICU_TREE_TOP}/scripts/copy_data_android.sh

     This copies the icu data file for Android to the following
location:

     android/icudtl.dat

  j. Run
       ${CHROME_ICU_TREE_TOP}/scripts/clean_up_data_source.sh

     This reverts the result of trim_data.sh and patch_locale.sh and
     make the tree ready for committing updated ICU data files for
     non-Android and Android platforms.

  k. Whenever data is updated (e.g timezone update), follow d ~ j as
long
  as the ICU build directory used in a ~ c is kept. Besides, icudt.dll
for
  Windows has to be udpated following the procedure described below.


2. icu data dll for Windows (non-default build option)

  Follow these steps to build windows/icudt.dll. By default, we set
  icu_use_icu_data_flag to 1 and don't use this file.

  a. check out a clean copy of icu56  from the upstream on Windows
     outside the Chrome tree.

    $ svn export --native-eol LF http://source.icu-project.org/repos/
icu/icu/tags/release-56-1 ${SEPARATE_ICU_ROOT}/icu56

  b. copy ${CHROME_ICU_ROOT}/common/icudtl.dat to
     ${SEPARATE_ICU_ROOT}/source/data/in/icudt56l.dat
  c. copy ${CHROME_ICU_ROOT}/source/data/makedata.mak to
     ${SEPARATE_ICU_ROOT}/source/data/makedata.mak
  c. In Visual Studio, open source/allinone/allinone.sln solution
     in ${SEPARATE_ICU_ROOT}
  d. Build 'makedata' target
  e. icudt56.dll will be generated in ${SEPARATE_ICU_ROOT}/bin
  f. Copy that icudt56.dll to ${CHROME_ICU_ROOT}/windows/icudt.dll
     and check that in.

3. Note on the locale data customization
```

```
  - scripts/trim_data.sh
      a. Trim the locale data for Chrome's UI langauges :
         locales, lang, region, currency, zone
      b. Trim the locale data for non-UI languages to the bare
minimum :
        ExemplarCharacters, LocaleScript, layout, and the name of the
        language for a locale in its native language.
      c. Remove the legacy Chinese character set-based collation
         (big5han/gb2312han) that don't make any sense and nobdoy
uses.

  - android/patch_locale.sh
      a. Make changes to source/data/{region,lang} to exclude these
data
         except the language and script names of zh_Hans and zh_Hant.
      b. Remove exemplar cities in timezone data (data/zone).
      c. Keep only the minimal calendar data in data/locales.
      d. Include currency display names for a smaller subset of
currencies.
      e. Minimize the locale data for 9 locales to which Chrome on
Android
         is not localized.
      f. Also apply android/brkitr.patch

  - android/brkitr.patch
      Do not use the C+J dictionary for Chinese/Japanese segmentation
      to reduce the data size. Adjust word.txt and a few other files.

C. Chromium-specific data build files and converters

They're preserved in step A.1 above. In general, there's no need to
touch
them when updating ICU.

1. source/data/mappings
  - convrtrs.txt : Lists encodings and aliases required by the WHATWG
    Encoding spec plus a few extra (see the file as to why).

  - ucmlocal.txt : to list only converters we need.

  - *html.ucm: Mapping files per WHATWG encoding standards for EUC-JP,
    Shift_JIS, Big5 (Big5+Big5HKSCS), EUC-KR and all the single byte
encodings.
    They're generated with scripts/{eucjp,sjis,big5,euckr,single_byte}
_gen.sh.

  - gb18030.ucm and windows-936.ucm
    gb_table.patch was applied for the following changes.
    a. Map \xA3\xA0 to U+3000 instead of U+E5E5 in gb18030 and
```

windows-936 per
    the encoding spec (one-way mapping in toUnicode direction).
    b. Map \xA8\xBF to U+01F9 instead of U+E7C8. Add one-way map
    from U+1E3F to \xA8\xBC (windows-936/GBK).
       See https://www.w3.org/Bugs/Public/show_bug.cgi?id=28740#c3

2. source/data/*/*local.mk
  - List locales of interest to Chromium
   a. Chrome's UI languages
   b. Variants of UI languages
   c. Other locales in Accept-Language list : will only have bare
minimum
   locale data

  - brklocal.mk drops all *loose.brk to save space (~370kB) for now.

3. source/data/brkitr
  - khmerdict.txt: Abridged Khmer dictionary. See
    http://bugs.icu-project.org/trac/ticket/9451
  - word_ja.txt (used only on Android)
    Added for Japanese-specific word-breaking without the C+J
dictionary.

4. source/data/trnslit/css3transform.txt
  - Handle Greek case conversion with a transliterator

5. Add {an,ast,ckb,ku,tg,wa}.txt to source/data/{locale,lang}
   with the minimal locale data necessary for spellchecker and
   and language menus. Also change the English display name
   for ckb to 'Kurdish (Arabic)'.

D. Local Modifications

1. Applied locale data patches from Google obtained by diff'ing
   the upstream copy and Google's internal copy for source/data

  - patches/locale_google.patch:
    * Google's internal ICU locale changes
    * Simpler region names for Hong Kong and Macau in all locales
    * Currency signs in ru and uk locales (do not include 'tr' locale
changes)
    * AM/PM, midnight, noon formatting for a few Indian locales
    * Timezone name changes in Korean and Chinese locales

  - patches/locale1.patch: Minor fixes for Korean

2. Applied post-56 fixes from the upstream for measure/date format
bugs

```
  - patches/measure_format.patch: combined patch of 12 CLs taken
    from bugs below.
  - upstream bugs
    http://bugs.icu-project.org/trac/ticket/11986
    http://bugs.icu-project.org/trac/ticket/12031
    http://bugs.icu-project.org/trac/ticket/12030
    http://bugs.icu-project.org/trac/ticket/12041

  - patches/relative_date.patch from Android
    https://android.googlesource.com/platform/external/icu/+/f9ffd5b
%5E%21

3. Breakiterator patches
  - patches/linebrk.patch
    a. Drop *_loose.txt for all locales and use the corresponding
normal.txt
    b. Drop local patches we used to have for the following issues.
They'll
       be dealt with in the upstream (Unicode/CLDR).
       http://unicode.org/cldr/trac/ticket/6557
       http://unicode.org/cldr/trac/ticket/4200 (http://crbug.com/
39779)

  - patches/wordbrk.patch for word.txt
    a. Move full stops (U+002E, U+FF0E) from MidNumLet to MidNum so
that
       FQDN labels can be split at '.'
    b. Move fullwidth digits (U+FF10 - U+FF19) from Ideographic to
Numeric.
       See http://unicode.org/cldr/trac/ticket/6555

  - patches/khmer-dictbe.patch
    Adjust parameters to use a smaller Khmer dictionary
(khmerdict.txt).
    http://bugs.icu-project.org/trac/ticket/9451

  - Add several common Chinese words that were dropped previously to
    source/data/cjdict/brkitr/cjdict.txt
    patch: patches/cjdict.patch
    upstream bug: http://bugs.icu-project.org/trac/ticket/10888

4. Timezone data update
  Run scripts/update_tz.sh to grab the latest version of the
  following timezone data files and put them in source/data/misc

     metaZones.txt
     timezoneTypes.txt
     windowsZones.txt
     zoneinfo64.txt
```

As of July 26, 2016, the latest version is 2016f and the above files are available at
http://source.icu-project.org/repos/icu/data/trunk/tzdata/icunew/2016f/44/

5. Build-related changes

- patches/wpo.patch
  upstream bugs : http://bugs.icu-project.org/trac/ticket/8043
                  http://bugs.icu-project.org/trac/ticket/5701
- patches/vscomp.patch for building with Visual Studio on Windows.
   a. do not use WINDOWS_LOCALE_API in locmap.c
   b. do not redefine stringpiece::npos
   c. fix http://bugs.icu-project.org/trac/ticket/12129 (C4138 warning)
   d. fix http://bugs.icu-project.org/trac/ticket/11893 (C4275 warning)

- patches/data.build.patch :
    Remove unnecessary resources : unames, collator rule source
- patches/data.build.win.patch :
    Windows-only data build patch.
- patches/data_symb.patch :
    Put ICU_DATA_ENTRY_POINT(icudtXX_dat) in common when we use the icu data file or icudt.dll

6. Apply a timezone detection API fix
- patches/tzdetect.patch
- upstream bugs
  http://bugs.icu-project.org/trac/ticket/11623

7. Fix 'bad cast' found in Transliterator with a cfi build
- patches/xlit_badcast.patch
- upstream bug (fixed in the upstream. Will be in ICU 57 release)
  http://bugs.icu-project.org/trac/ticket/11937

8. Add back UTF-32 converters temporarily even when
   UCONFIG_ONLY_HTML_CONVERSION is defined until UTF-32 is
   removed from Blink. See
   http://www.icu-project.org/trac/ticket/11296 and
   http://crbug.com/417850

   - patches/utf32.patch

9. Fix a UText bug found in uregex_open fuzzer.
- patches/utext.patch
- upstream bug (fixed in trunk in Jan, 2016. Will be in ICU 57 release)
  http://bugs.icu-project.org/trac/ticket/12130

10. Fix a bug in regex compiler.
  - patches/regexcmp.patch
  - upstream bug (fixed in the upstream. Will be in ICU 57 release)
    http://bugs.icu-project.org/trac/ticket/12138

11. Remove an unnecessary static initializer
  - patches/remove_si.patch
  - upstream bug (fixed in trunk. Will be in ICU 57 release)
    http://bugs.icu-project.org/trac/ticket/12408

12. Cherry pick locale data fixes from the upstream and Android
  - patches/locale_extra.patch
  - upstream bugs
        http://unicode.org/cldr/trac/ticket/9045 (en-AU date format)
        http://unicode.org/cldr/trac/ticket/7969 (percent sign in ar
and fa)
  - Android patch for the 2nd bug
        https://android.googlesource.com/platform/external/icu/+/
56b2b8b

13. Add Emoji properties support by cherry-picking from 57.1
  - patches/emoji_props.patch
  - Upstream change cherry-picked
        http://bugs.icu-project.org/trac/changeset/38183
  - source/data/in/{pnames,uprops}.icu were copied from the upstream,
    but they're just for the record. Their contents are hard-coded
    in the source files patched by the above patch.
========== Modifications: url_parse
Name: url_parse
URL: http://mxr.mozilla.org/comm-central/source/mozilla/netwerk/base/
src/nsURLParsers.cpp
License: BSD and MPL 1.1/GPL 2.0/LGPL 2.1
License File: LICENSE.txt

Description:

The file url_parse.cc is based on nsURLParsers.cc from Mozilla.
========== Modifications: Netscape Portable Runtime (NSPR)
Name: Netscape Portable Runtime (NSPR)
URL: http://www.mozilla.org/projects/nspr/
License: MPL 1.1/GPL 2.0/LGPL 2.1