NAME
   idn2_lookup_u8 - API function

SYNOPSIS
   #include <idn2.h>

   int idn2_lookup_u8(const uint8_t * *src***, uint8_t **** *lookupname***, int** *flags***);**

ARGUMENTS
   const uint8_t * src
                  input zero-terminated UTF-8 string in Unicode NFC normalized form.

   uint8_t ** lookupname
                  newly allocated output variable with name to lookup in DNS.

   int flags   optional **idn2_flags** to modify behaviour.

DESCRIPTION
   Perform IDNA2008 lookup string conversion on domain name *src* , as described in section 5 of RFC
   5891. Note that the input string must be encoded in UTF-8 and be in Unicode NFC form.

   Pass **IDN2_NFC_INPUT** in *flags* to convert input to NFC form before further processing.
   IDN2_TRANSITIONAL and **IDN2_NONTRANSITIONAL** do already imply **IDN2_NFC_INPUT**.

   Pass **IDN2_ALABEL_ROUNDTRIP** in *flags* to convert any input A-labels to U-labels and perform
   additional testing. This is default since version 2.2. To switch this behavior off, pass
   IDN2_NO_ALABEL_ROUNDTRIP

   Pass **IDN2_TRANSITIONAL** to enable Unicode TR46 transitional processing, and
   IDN2_NONTRANSITIONAL to enable Unicode TR46 non-transitional processing.

   Multiple flags may be specified by binary or:ing them together.

   After version 2.0.3: **IDN2_USE_STD3_ASCII_RULES** disabled by default. Previously we were
   eliminating non-STD3 characters from domain strings such as _443._tcp.example.com, or IPs
   1.2.3.4/24 provided to libidn2 functions. That was an unexpected regression for applications switching
   from libidn and thus it is no longer applied by default. Use **IDN2_USE_STD3_ASCII_RULES** to
   enable that behavior again.

   After version 0.11: *lookupname* may be NULL to test lookup of *src* without allocating memory.

RETURNS

On successful conversion **IDN2_OK** is returned, if the output domain or any label would have been too long **IDN2_TOO_BIG_DOMAIN** or **IDN2_TOO_BIG_LABEL** is returned, or another error code is returned.

SINCE

0.1

REPORTING BUGS

Report bugs to <help-libidn@gnu.org>.
General guidelines for reporting bugs: https://www.gnu.org/gethelp/
Libidn2 home page: https://www.gnu.org/software/libidn2/

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SEE ALSO

The full documentation for **libidn2** is maintained as a Texinfo manual. If the **info** and **libidn2** programs are properly installed at your site, the command

info libidn2

should give you access to the complete manual. As an alternative you may obtain the manual from:

https://www.gnu.org/software/libidn/libidn2/manual/