

**NAME**

idn2\_lookup\_ul - API function

**SYNOPSIS**

```
#include <idn2.h>
```

```
int idn2_lookup_ul(const char * src, char ** lookupname, int flags);
```

**ARGUMENTS**

const char \* src

input zero-terminated locale encoded string.

char \*\* 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 is assumed to be encoded in the locale's default coding system, and will be transcoded to UTF-8 and NFC normalized by this function.

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, for example

**IDN2\_ALABEL\_ROUNDTRIP | IDN2\_NONTRANSITIONAL**.

The **IDN2\_NFC\_INPUT** in *flags* is always enabled in this function.

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 conversion from locale to UTF-8 fails then **IDN2\_ICONV\_FAIL** 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/>

## **COPYRIGHT**

Copyright (C) 2002-2022 Simon Josefsson.

Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

## **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/>**