

**NAME**

idn2\_register\_u8 - API function

**SYNOPSIS**

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

```
int idn2_register_u8(const uint8_t * ulabel, const uint8_t * alabel, uint8_t ** insertname, int flags);
```

**ARGUMENTS**

const uint8\_t \* ulabel  
input zero-terminated UTF-8 and Unicode NFC string, or NULL.

const uint8\_t \* alabel  
input zero-terminated ACE encoded string (xn--), or NULL.

uint8\_t \*\* insertname  
newly allocated output variable with name to register in DNS.

int flags      optional **idn2\_flags** to modify behaviour.

**DESCRIPTION**

Perform IDNA2008 register string conversion on domain label *ulabel* and *alabel*, as described in section 4 of RFC 5891. Note that the input *ulabel* must be encoded in UTF-8 and be in Unicode NFC form.

Pass **IDN2\_NFC\_INPUT** in *flags* to convert input *ulabel* to NFC form before further processing.

It is recommended to supply both *ulabel* and *alabel* for better error checking, but supplying just one of them will work. Passing in only *alabel* is better than only *ulabel*. See RFC 5891 section 4 for more information.

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

**RETURNS**

On successful conversion **IDN2\_OK** is returned, when the given *ulabel* and *alabel* does not match each other **IDN2\_UALABEL\_MISMATCH** is returned, when either of the input labels are too long **IDN2\_TOO\_BIG\_LABEL** is returned, when *alabel* does not appear to be a proper A-label **IDN2\_INVALID\_ALABEL** is returned, or another error code is returned.

**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/>**