

NAME

fribidi_get_par_embedding_levels_ex - get bidi embedding levels of a paragraph

SYNOPSIS

```
#include <fribidi.h>
```

```
FriBidiLevel fribidi_get_par_embedding_levels_ex
```

```
(  
    const FriBidiCharType *bidi_types,  
    const FriBidiBracketType *bracket_types,  
    const FriBidiStrIndex len,  
    FriBidiParType *pbase_dir,  
    FriBidiLevel *embedding_levels  
);
```

PARAMETERS

```
const FriBidiCharType *bidi_types
```

Input list of bidi types as returned by fribidi_get_bidi_types().

Since there are 23 possible values for a **const FriBidiCharType**, they are not all listed here.

```
const FriBidiBracketType *bracket_types
```

Input list of bracket types as returned by fribidi_get_bracket_types().

```
const FriBidiStrIndex len
```

Input string length of the paragraph.

```
FriBidiParType *pbase_dir
```

Requested and resolved paragraph base direction.

Possible values for a **FriBidiParType** are as follows:

FRIBIDI_PAR_LTR	Left-To-Right paragraph.
FRIBIDI_PAR_RTL	Right-To-Left paragraph.
FRIBIDI_PAR_ON	DirectiOn-Neutral paragraph.
FRIBIDI_PAR_WLTR	Weak Left To Right paragraph.
FRIBIDI_PAR_WRTL	Weak Right To Left paragraph.

```
FriBidiLevel *embedding_levels
```

Output list of embedding levels.

DESCRIPTION

This function finds the bidi embedding levels of a single paragraph, as defined by the Unicode Bidirectional Algorithm available at <http://www.unicode.org/reports/tr9/>. This function implements rules P2 to I1 inclusive, and parts 1 to 3 of L1, except for rule X9 which is implemented in `fribidi_remove_bidi_marks()`. Part 4 of L1 is implemented in `fribidi_reorder_line()`.

There are a few macros defined in `fribidi-bidi-types.h` to work with this embedding levels.

RETURNS

Maximum level found plus one, or zero if any error occurred (memory allocation failure most probably).

SEE ALSO

`fribidi_shape_arabic(3)`, `fribidi_get_par_direction(3)`, `fribidi_reorder_line(3)`, `fribidi_get_bidi_type(3)`, `fribidi_get_bidi_types(3)`, `fribidi_get_bidi_type_name(3)`, `fribidi_debug_status(3)`, `fribidi_set_debug(3)`, `fribidi_charset_to_unicode(3)`, `fribidi_unicode_to_charset(3)`, `fribidi_parse_charset(3)`, `fribidi_mirroring_status(3)`, `fribidi_set_mirroring(3)`, `fribidi_reorder_nsm_status(3)`, `fribidi_set_reorder_nsm(3)`, `fribidi_log2vis_get_embedding_levels(3)`, `fribidi_get_type(3)`, `fribidi_get_type_internal(3)`, `fribidi_get_par_embedding_levels(3)`, `fribidi_join_arabic(3)`, `fribidi_get_joining_type(3)`, `fribidi_get_joining_types(3)`, `fribidi_get_joining_type_name(3)`, `fribidi_get_mirror_char(3)`, `fribidi_shape_mirroring(3)`, `fribidi_get_bracket(3)`, `fribidi_get_bracket_types(3)`, `fribidi_shape(3)`, `fribidi_remove_bidi_marks(3)`, `fribidi_log2vis(3)`