NAME
   fribidi_log2vis - get visual string

SYNOPSIS
   #include <fribidi.h>

   FriBidiLevel fribidi_log2vis
   (
   　　　const FriBidiChar *str,
   　　　const FriBidiStrIndex len,
   　　　FriBidiParType *pbase_dir,
   　　　FriBidiChar *visual_str,
   　　　FriBidiStrIndex *positions_L_to_V,
   　　　FriBidiStrIndex *positions_V_to_L,
   　　　FriBidiLevel *embedding_levels
   );

PARAMETERS
   const FriBidiChar *str
      Input logical string.

   const FriBidiStrIndex len
      Input string length.

   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.

   FriBidiChar *visual_str
      Output visual string.

   FriBidiStrIndex *positions_L_to_V
      Output mapping from logical to visual string positions.

FriBidiStrIndex *positions_V_to_L

    Output mapping from visual string back to the logical string positions.

FriBidiLevel *embedding_levels

    Output list of embedding levels.

DESCRIPTION

This function converts the logical input string to the visual output strings as specified by the Unicode Bidirectional Algorithm. As a side effect it also generates mapping lists between the two strings, and the list of embedding levels as defined by the algorithm.

If NULL is passed as any of the the lists, the list is ignored and not filled.

Note that this function handles one-line paragraphs. For multi- paragraph texts it is necessary to first split the text into separate paragraphs and then carry over the resolved pbase_dir between the subsequent invocations.

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_get_par_embedding_levels_ex(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)