Module std::macros

This module holds shared implementation of macros used in std

Creates a fixed-point value from a quotient specified by its numerator and denominator. T i s t h e u n d e r l y i n g i n t e g e r t y p e f o r t h e f i x e d − p o i n t v a l u e , w h e r e T is the underlying integer type for the fixed-point value, where T i s t h e u n d e r l y i n g i n t e g e r t y p e f o r t h e f i x e d − p o i n t v a l u e , w h e r e T has t b i t s b i t s . t_bits bits. t b i t s b i t s . U is the type used for intermediate calculations, where U i s t h e n e x t l a r g e r i n t e g e r t y p e . U is the next larger integer type. U i s t h e n e x t l a r g e r i n t e g e r t y p e . max_t is the maximum value that can be represented by T . T. T . t_bits (as mentioned above) is the total number of bits in the fixed-point value (integer plus fractional). $fractional_bits is the number of fractional bits in the fixed-point value.

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Macro function

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Creates a fixed-point value from a quotient specified by its numerator and denominator. T i s t h e u n d e r l y i n g i n t e g e r t y p e f o r t h e f i x e d − p o i n t v a l u e , w h e r e T is the underlying integer type for the fixed-point value, where T i s t h e u n d e r l y i n g i n t e g e r t y p e f o r t h e f i x e d − p o i n t v a l u e , w h e r e T has t b i t s b i t s . t_bits bits. t b i t s b i t s . t_bits bits. t b i t s b i t s . U is the type used for intermediate calculations, where U i s t h e n e x t l a r g e r i n t e g e r t y p e . U is the next larger integer type. U i s t h e n e x t l a r g e r i n t e g e r t y p e . max_t is the maximum value that can be represented by T . T. T . t_bits (as mentioned above) is the total number of bits in the fixed-point value (integer plus fractional). $fractional_bits is the number of fractional bits in the fixed-point value.

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