

NAME

types.h – Common types used in decoder and encoder API.

SYNOPSIS**Macros**

```
#define BROTLI_BOOL    int
    A portable bool replacement.
#define BROTLI_FALSE  0
    Portable false replacement.
#define BROTLI_TRUE   1
    Portable true replacement.
#define TO_BROTLI_BOOL(X)  (!! (X) ? BROTLI_TRUE : BROTLI_FALSE)
    bool to BROTLI_BOOL conversion macros.
```

Typedefs

```
typedef void (* brotli_alloc_func) (void *opaque, size_t size)
    Allocating function pointer type.
typedef void (* brotli_free_func) (void *opaque, void *address)
    Deallocating function pointer type.
```

Detailed Description

Common types used in decoder and encoder API.

Macro Definition Documentation

#define BROTLI_BOOL int

A portable `bool` replacement. **BROTLI_BOOL** is a 'documentation' type: actually it is `int`, but in API it denotes a type, whose only values are **BROTLI_TRUE** and **BROTLI_FALSE**.

BROTLI_BOOL values passed to Brotli should either be **BROTLI_TRUE** or **BROTLI_FALSE**, or be a result of **TO_BROTLI_BOOL** macros.

BROTLI_BOOL values returned by Brotli should not be tested for equality with `true`, `false`, **BROTLI_TRUE**, **BROTLI_FALSE**, but rather should be evaluated, for example:

```
if (SomeBrotliFunction(encoder, BROTLI_TRUE) &&
    !OtherBrotliFunction(decoder, BROTLI_FALSE)) {
    bool x = !!YetAnotherBrotliFunction(encoder, TO_BROTLI_BOOL(2 * 2 == 4));
    DoSomething(x);
}
```

#define BROTLI_FALSE 0

Portable `false` replacement.

#define BROTLI_TRUE 1

Portable `true` replacement.

#define TO_BROTLI_BOOL(X) (!! (X) ? BROTLI_TRUE : BROTLI_FALSE)

`bool` to **BROTLI_BOOL** conversion macros.

Typedef Documentation

typedef void (* brotli_alloc_func) (void *opaque, size_t size)

Allocating function pointer type.

Parameters:

opaque custom memory manager handle provided by client
size requested memory region size; can not be 0

Returns:

0 in the case of failure

a valid pointer to a memory region of at least `size` bytes long otherwise

typedef void(* brotli_free_func) (void *opaque, void *address)

Deallocating function pointer type. This function **SHOULD** do nothing if `address` is 0.

Parameters:

opaque custom memory manager handle provided by client

address memory region pointer returned by **brotli_alloc_func**, or 0

Author

Generated automatically by Doxygen for Brotli from the source code.