yabool

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Chapter 1

yabool

A simple header only bool library for the ya ecosystem.

Chapter 2

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File Index

3.1 File List

Here is a list of all files with brief descriptions:

Chapter 4

File Documentation

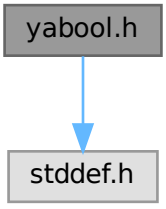
4.1 LICENSE.md File Reference

4.2 README.md File Reference

4.3 yabool.h File Reference

Drop-in replacement of stdbool.h to make my programs and other ya- libraries ANSI C compatible.

`#include <stddef.h>`
Include dependency graph for yabool.h:



Macros

- #define YATRUE 1

  Boolean true value for yabool.
- #define YAFALSE 0

  Boolean false value for yabool.

Typedefs

- typedef unsigned char yabool
  < *Just included for the NULL pointer*

Functions

- static int yabool_is_false (yabool boolean)
  Checks whether a yabool value is false.
- static int yabool_is_true (yabool boolean)
  Checks whether a yabool value is true.
- static int yabool_set_false (yabool *boolean)
  Sets a yabool variable to false.
- static int yabool_set_true (yabool *boolean)
  Sets a yabool variable to true.

4.3.1 Detailed Description

Drop-in replacement of stdbool.h to make my programs and other ya- libraries ANSI C compatible.

Author

asaeppel4231

Version

0.1

This header defines the `yabool` type and related helper functions. It is designed to be minimal, portable, and usable in ANSI C environments where stdbool.h is not available.

4.3.2 Macro Definition Documentation

4.3.2.1 YAFALSE

```
#define YAFALSE 0
```

Boolean false value for yabool.

4.3.2.2 YATRUE

```
#define YATRUE 1
```

Boolean true value for yabool.

4.3.3 Typedef Documentation

4.3.3.1 yabool

```
yabool
```

< Just included for the NULL pointer

Boolean type (optionally) used by the ya-framework.

This is an unsigned char that represents boolean values in ANSI C. Use YATRUE and YAFALSE instead of 1 and 0 for clarity.

4.3.4 Function Documentation

4.3.4.1 yabool_is_false()

```
static int yabool_is_false (
            yabool boolean )  [inline], [static]
```

Checks whether a yabool value is false.

Parameters

boolean	The value to check.

Returns

1 if false, 0 otherwise.

```
00041                                          {
00042     return boolean == YAFALSE;
00043 }
```

4.3.4.2 yabool_is_true()

```
static int yabool_is_true (
            yabool boolean )  [inline], [static]
```

Checks whether a yabool value is true.

Parameters

boolean	The value to check.

Returns

1 if true, 0 otherwise.

```
00050                                          {
00051     return boolean == YATRUE;
00052 }
```

4.3.4.3 yabool_set_false()

```
static int yabool_set_false (
            yabool * boolean )  [inline], [static]
```

Sets a yabool variable to false.

Parameters

boolean	Pointer to the variable to modify.

Returns

YATRUE on success, YAFALSE if the pointer is NULL.

```
00059                                                   {
00060     if(boolean == NULL){
00061         return YAFALSE;
00062     }
00063     *boolean = YAFALSE;
00064     return YATRUE;
00065 }
```

4.3.4.4 yabool_set_true()

```
static int yabool_set_true (
            yabool * boolean )  [inline], [static]
```

Sets a yabool variable to true.

Parameters

boolean	Pointer to the variable to modify.

Returns

YATRUE on success, YAFALSE if the pointer is NULL.

```
00073                                                   {
00074     if(boolean == NULL){
00075         return YAFALSE;
00076     }
00077     *boolean = YATRUE;
00078     return YATRUE;
00079 }
```

4.4 yabool.h

Go to the documentation of this file.

```
00001
00010 #ifndef YABOOL_H
00011 #define YABOOL_H
00012
00013 #include <stddef.h>
00014
00022 typedef unsigned char yabool;
00023
00028 #define YATRUE 1
00029
```

```
00034 #define YAFALSE 0
00035
00041 static inline int yabool_is_false(yabool boolean){
00042     return boolean == YAFALSE;
00043 }
00044
00050 static inline int yabool_is_true(yabool boolean){
00051     return boolean == YATRUE;
00052 }
00053
00059 static inline int yabool_set_false(yabool* boolean){
00060     if(boolean == NULL){
00061         return YAFALSE;
00062     }
00063     *boolean = YAFALSE;
00064     return YATRUE;
00065 }
00066
00067
00073 static inline int yabool_set_true(yabool* boolean){
00074     if(boolean == NULL){
00075         return YAFALSE;
00076     }
00077     *boolean = YATRUE;
00078     return YATRUE;
00079 }
00080
00081 #endif
```

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