FRC 2018 Software Documentation

Team 5572: The ROSBOTS

Contents

Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

Chapter 3

Namespace Documentation

3.1 drivetrain Namespace Reference

3.2 math Namespace Reference

Functions

- double wrapping_limit (double value, double min, double max)

  Enforces a wrapping limit on value.

3.2.1 Function Documentation

3.2.1.1 double math::wrapping_limit (double *value,* double *min,* double *max*) [inline]

Enforces a wrapping limit on value.

Wrapping is a constraint in which a minimum is equal to a maximum, and values exceeding either limit "wraps" to the other extremum. An example is angles. The angles 0, and 2π are equal in angles, so you may enforce a wrapping limit when checking for a value such as π.

Parameters

value	value to limit
min	minimum value
max	maximum value

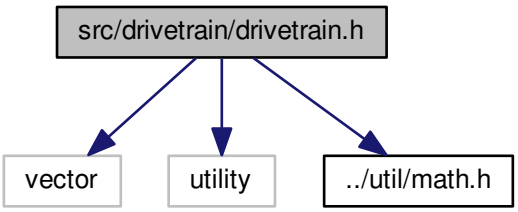
Chapter 4

File Documentation

4.1 src/drivetrain/drivetrain.h File Reference

```
#include <vector>
#include <utility>
#include "../util/math.h"
```

Include dependency graph for drivetrain.h:



Namespaces

- drivetrain

Macros

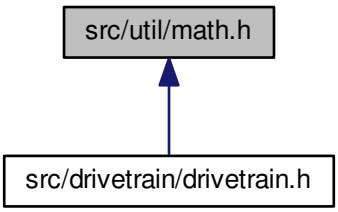
- #define NOWPI

4.1.1 Macro Definition Documentation

4.1.1.1 #define NOWPI

4.2 src/util/math.h File Reference

This graph shows which files directly or indirectly include this file:



Namespaces

- math

Macros

- #define PI 3.141592654

Functions

- double math::wrapping_limit (double value, double min, double max)

  Enforces a wrapping limit on value.

4.2.1 Macro Definition Documentation

4.2.1.1 #define PI 3.141592654

Index