hitchBOT

Generated by Doxygen 1.8.6

Sun Mar 2 2014 11:24:29

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Documentation

View the documentation for this project at the following links:

- LaTeX
- HTML

This documentation is automatically generated with <code>Doxygen</code>

Doxyfile is a project which when used with Doxygen will autogenerate the documentation for this project.

2 **Documentation**

hitchBOT

hitchBOT

File Index

3.1 File List

Here is a list of all files with brief descriptions:

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File Documentation

- 4.1 hitchBOT/documentation/README.md File Reference
- 4.2 hitchBOT/README.md File Reference
- 4.3 hitchBOT/old code/GPS-shield-RMC-test-sketch-master/GPS-shield-RMC-test-sketch-master/GPStest_RMC/GPStest_RMC.ino File Reference

```
#include "WProgram.h"
#include "NewSoftSerial.h"
```

Macros

- #define powerpin 4
- #define GPSRATE 4800
- #define BUFFSIZ 90

Functions

- void setup ()
- uint32_t parsedecimal (char *str)
- void readline (void)
- void loop ()

Variables

- NewSoftSerial mySerial = NewSoftSerial(2, 3)
- char buffer [BUFFSIZ]
- char * parseptr
- char buffidx
- uint8_t hour
- uint8_t minute

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- uint8_t second
- uint8_t year
- uint8_t month
- uint8_t date
- uint32_t latitude
- uint32_t longitude
- uint8_t groundspeed
- uint8_t trackangle
- · char latdir
- · char longdir
- char status

4.3.1 Macro Definition Documentation

4.3.1.1 #define BUFFSIZ 90

Definition at line 32 of file GPStest_RMC.ino.

4.3.1.2 #define GPSRATE 4800

Definition at line 27 of file GPStest_RMC.ino.

4.3.1.3 #define powerpin 4

Definition at line 23 of file GPStest_RMC.ino.

4.3.2 Function Documentation

```
4.3.2.1 void loop ( )
```

Definition at line 100 of file GPStest_RMC.ino.

```
4.3.2.2 uint32_t parsedecimal ( char * str )
```

Definition at line 68 of file GPStest_RMC.ino.

4.3.2.3 void readline (void)

Definition at line 81 of file GPStest_RMC.ino.

4.3.2.4 void setup ()

Definition at line 47 of file GPStest_RMC.ino.

4.3 hitchBOT/old code/GPS-shield-RMC-test-sketch-master/GPS-shield-RMC-test-sketch-master/GPStest_RM-C/GPStest_RMC.ino File

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4.3.3 Variable Documentation

4.3.3.1 char buffer[BUFFSIZ]

Definition at line 36 of file GPStest_RMC.ino.

4.3.3.2 char buffidx

Definition at line 38 of file GPStest_RMC.ino.

4.3.3.3 uint8_t date

Definition at line 41 of file GPStest RMC.ino.

4.3.3.4 uint8_t groundspeed

Definition at line 43 of file GPStest_RMC.ino.

4.3.3.5 uint8_t hour

Definition at line 41 of file GPStest_RMC.ino.

4.3.3.6 char latdir

Definition at line 44 of file GPStest_RMC.ino.

4.3.3.7 uint32_t latitude

Definition at line 42 of file GPStest_RMC.ino.

4.3.3.8 char longdir

Definition at line 44 of file GPStest_RMC.ino.

4.3.3.9 uint32_t longitude

Definition at line 42 of file GPStest_RMC.ino.

4.3.3.10 uint8_t minute

Definition at line 41 of file GPStest_RMC.ino.

4.3.3.11 uint8_t month

Definition at line 41 of file GPStest RMC.ino.

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4.3.3.12 NewSoftSerial mySerial = NewSoftSerial(2, 3)

Definition at line 19 of file GPStest_RMC.ino.

4.3.3.13 char* parseptr

Definition at line 37 of file GPStest_RMC.ino.

4.3.3.14 uint8_t second

Definition at line 41 of file GPStest RMC.ino.

4.3.3.15 char status

Definition at line 45 of file GPStest_RMC.ino.

4.3.3.16 uint8_t trackangle

Definition at line 43 of file GPStest_RMC.ino.

4.3.3.17 uint8_t year

Definition at line 41 of file GPStest_RMC.ino.

4.4 hitchBOT/old code/matrixdemo/matrixdemo.ino File Reference

```
#include "HT1632.h"
```

Macros

- #define DATA 2
- #define WR 3
- #define CS 4
- #define CS2 5

Functions

- void setup ()
- void loop ()

Variables

• HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)

4.4.1 Macro Definition Documentation

4.4.1.1 #define CS 4

Definition at line 5 of file matrixdemo.ino.

4.4.1.2 #define CS2 5

Definition at line 6 of file matrixdemo.ino.

4.4.1.3 #define DATA 2

Definition at line 3 of file matrixdemo.ino.

4.4.1.4 #define WR 3

Definition at line 4 of file matrixdemo.ino.

4.4.2 Function Documentation

```
4.4.2.1 void loop ( )
```

Definition at line 21 of file matrixdemo.ino.

```
4.4.2.2 void setup ( )
```

Definition at line 13 of file matrixdemo.ino.

4.4.3 Variable Documentation

4.4.3.1 HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)

Definition at line 11 of file matrixdemo.ino.

4.5 hitchBOT/old code/scrolldemo/scrolldemo.ino File Reference

```
#include "HT1632.h"
```

Macros

- #define DATA 2
- #define WR 3
- #define CS 4
- #define CS2 5

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Functions

- void setup ()
- void loop ()

Variables

• HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)

4.5.1 Macro Definition Documentation

4.5.1.1 #define CS 4

Definition at line 5 of file scrolldemo.ino.

4.5.1.2 #define CS2 5

Definition at line 6 of file scrolldemo.ino.

4.5.1.3 #define DATA 2

Definition at line 3 of file scrolldemo.ino.

4.5.1.4 #define WR 3

Definition at line 4 of file scrolldemo.ino.

4.5.2 Function Documentation

```
4.5.2.1 void loop ( )
```

Definition at line 18 of file scrolldemo.ino.

```
4.5.2.2 void setup ( )
```

Definition at line 13 of file scrolldemo.ino.

4.5.3 Variable Documentation

4.5.3.1 HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)

Definition at line 11 of file scrolldemo.ino.

4.6 hitchBOT/old code/sketch_jul22a/sketch_jul22a.ino File Reference

#include <SoftwareSerial.h>

Functions

- SoftwareSerial GPRS (7, 8)
- void setup ()
- void loop ()
- void clearBufferArray ()

Variables

- unsigned char buffer [64]
- int count =0

4.6.1 Function Documentation

4.6.1.1 void clearBufferArray ()

Definition at line 37 of file sketch_jul22a.ino.

4.6.1.2 SoftwareSerial GPRS (7,8)

4.6.1.3 void loop ()

Definition at line 19 of file sketch_jul22a.ino.

4.6.1.4 void setup ()

Definition at line 12 of file sketch_jul22a.ino.

4.6.2 Variable Documentation

4.6.2.1 unsigned char buffer[64]

Definition at line 10 of file sketch_jul22a.ino.

4.6.2.2 int count =0

Definition at line 11 of file sketch_jul22a.ino.

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