

hitchBOT

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Chapter 1

hitchBOT

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

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Chapter 3

File Documentation

3.1 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`
- 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](#)

3.1.1 Macro Definition Documentation

3.1.1.1 #define BUFFSIZ 90

Definition at line 32 of file GPSTest_RMC.ino.

3.1.1.2 #define GPSRATE 4800

Definition at line 27 of file GPSTest_RMC.ino.

3.1.1.3 #define powerpin 4

Definition at line 23 of file GPSTest_RMC.ino.

3.1.2 Function Documentation

3.1.2.1 void loop ()

Definition at line 100 of file GPSTest_RMC.ino.

3.1.2.2 uint32_t parsedecimal (char * *str*)

Definition at line 68 of file GPSTest_RMC.ino.

3.1.2.3 void readline (void)

Definition at line 81 of file GPSTest_RMC.ino.

3.1.2.4 void setup ()

Definition at line 47 of file GPSTest_RMC.ino.

3.1.3 Variable Documentation

3.1.3.1 char buffer[BUFFSIZ]

Definition at line 36 of file GPSTest_RMC.ino.

3.1.3.2 `char buffidx`

Definition at line 38 of file GPStest_RMC.ino.

3.1.3.3 `uint8_t date`

Definition at line 41 of file GPStest_RMC.ino.

3.1.3.4 `uint8_t groundspeed`

Definition at line 43 of file GPStest_RMC.ino.

3.1.3.5 `uint8_t hour`

Definition at line 41 of file GPStest_RMC.ino.

3.1.3.6 `char latdir`

Definition at line 44 of file GPStest_RMC.ino.

3.1.3.7 `uint32_t latitude`

Definition at line 42 of file GPStest_RMC.ino.

3.1.3.8 `char longdir`

Definition at line 44 of file GPStest_RMC.ino.

3.1.3.9 `uint32_t longitude`

Definition at line 42 of file GPStest_RMC.ino.

3.1.3.10 `uint8_t minute`

Definition at line 41 of file GPStest_RMC.ino.

3.1.3.11 `uint8_t month`

Definition at line 41 of file GPStest_RMC.ino.

3.1.3.12 `NewSoftSerial mySerial = NewSoftSerial(2, 3)`

Definition at line 19 of file GPStest_RMC.ino.

3.1.3.13 char* parseptr

Definition at line 37 of file GPStest_RMC.ino.

3.1.3.14 uint8_t second

Definition at line 41 of file GPStest_RMC.ino.

3.1.3.15 char status

Definition at line 45 of file GPStest_RMC.ino.

3.1.3.16 uint8_t trackangle

Definition at line 43 of file GPStest_RMC.ino.

3.1.3.17 uint8_t year

Definition at line 41 of file GPStest_RMC.ino.

3.2 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)

3.2.1 Macro Definition Documentation

3.2.1.1 #define CS 4

Definition at line 5 of file matrixdemo.ino.

3.2.1.2 `#define CS2 5`

Definition at line 6 of file matrixdemo.ino.

3.2.1.3 `#define DATA 2`

Definition at line 3 of file matrixdemo.ino.

3.2.1.4 `#define WR 3`

Definition at line 4 of file matrixdemo.ino.

3.2.2 Function Documentation

3.2.2.1 `void loop ()`

Definition at line 21 of file matrixdemo.ino.

3.2.2.2 `void setup ()`

Definition at line 13 of file matrixdemo.ino.

3.2.3 Variable Documentation

3.2.3.1 `HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)`

Definition at line 11 of file matrixdemo.ino.

3.3 hitchBOT/old code/scrolldemo/scrolldemo.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`)

3.3.1 Macro Definition Documentation

3.3.1.1 `#define CS 4`

Definition at line 5 of file `scrolldemo.ino`.

3.3.1.2 `#define CS2 5`

Definition at line 6 of file `scrolldemo.ino`.

3.3.1.3 `#define DATA 2`

Definition at line 3 of file `scrolldemo.ino`.

3.3.1.4 `#define WR 3`

Definition at line 4 of file `scrolldemo.ino`.

3.3.2 Function Documentation

3.3.2.1 `void loop ()`

Definition at line 18 of file `scrolldemo.ino`.

3.3.2.2 `void setup ()`

Definition at line 13 of file `scrolldemo.ino`.

3.3.3 Variable Documentation

3.3.3.1 HT1632LEDMatrix `matrix` = HT1632LEDMatrix(`DATA`, `WR`, `CS`, `CS2`)

Definition at line 11 of file `scrolldemo.ino`.

3.4 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

3.4.1 Function Documentation

3.4.1.1 void [clearBufferArray](#) ()

Definition at line 37 of file sketch_jul22a.ino.

3.4.1.2 SoftwareSerial [GPRS](#) (7 , 8)

3.4.1.3 void [loop](#) ()

Definition at line 19 of file sketch_jul22a.ino.

3.4.1.4 void [setup](#) ()

Definition at line 12 of file sketch_jul22a.ino.

3.4.2 Variable Documentation

3.4.2.1 unsigned char [buffer](#)[64]

Definition at line 10 of file sketch_jul22a.ino.

3.4.2.2 int [count](#) =0

Definition at line 11 of file sketch_jul22a.ino.

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