

```
1 /**
2  * CAN
3  *   BUS
4  *   *
```

Copyright
(c)
2010
Sukkin
Pang

All
rights
reserved.

5 */

6

```
7 #ifndef  
  canbus__h  
8 #define  
  canbus__h  
9
```

```
10 #define  
    CANSPEED_125  
  
7 //  
CAN
```

```
speed  
at 125  
kbps  
11 #define  
CANSPEED_250
```

```
3 //  
CAN  
speed  
at 250
```

```
    kbps  
12 #define  
    CANSPEED_500  
    1 //  
    CAN
```


speed
at 500
kbps

13
14

```
15 //  
    #define  
    ENGINE_COOLANT_TEMP  
    0x05  
16 #define
```

```
TREADMILL_SPEED  
0x510 //  
startbit16  
length  
16
```

```
    required  
17 //  
    #define  
    ENGINE_RPM  
    0x0C
```

```
18 #define  
    CURRENT_DRAWN  
    0x410 //  
    startbit  
    48
```

```
length  
16  
required  
19//  
#define
```

```
VEHICLE_SPEED  
0x0D  
20 #define  
PCB_TEMPERATURE  
0x750 //
```

```
startbit  
32  
length  
16  
required
```



```
21 //  
    #define  
    MAF_SENSOR  
    0x10  
22 #define
```

```
MOTOR_TEMPERATURE
0x750 //
startbit
48
length
```

```
16  
  required  
23 //  
  #define  
    O2_VOLTAGE
```

```
0x14 //  
ignore  
24 #define  
empty  
0x14 //
```

```
ignore  
25//  
#define  
THROTTLE  
0x11 //
```

```
ignore  
26 #define  
empty2  
0x11 //  
ignore
```

27

28

```
29 #define  
    PID_REQUEST  
    0x7DF
```

```
30 #define  
    PID_REPLY  
    0x7E8  
31  
32 class
```



```
CanbusClass  
33 {  
34  
35 public:
```

```
36 CanbusClass  
   ();  
37 char
```

```
    init  
    (unsigned  
    char);  
38   char  
    message_tx
```

```
(void);  
39 char  
message_rx  
(unsigned  
char
```

```
*buffer);  
40 char  
ecu_req  
(unsigned  
char
```

```
    pid,  
    char  
    *buffer);  
41 private:  
42
```

```
43 };  
44 extern  
    CanbusClass  
    Canbus;  
45 //
```

```
extern  
tCAN  
message;  
46  
47 #endif
```