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jEdit - defs.h
2 // defs.h global definitions for IPC project
3 // Author: M. Thaler
4 // Date: 3/2011
 5
6
 #ifndef THE_GLOBAL_DEFINITIONS
7
8 #define THE_GLOBAL_DEFINITIONS
9
10 //-----
11
12 #define PGROUP "MyName"
13 #define PGROUPNR 0
15 // fflush requires stdio.h
16 #include <stdio.h>
18 #define ClearScreen() printf("\033[H\033[J"); fflush(stdout)
19 #define HomeScreen() printf("\033[H"); fflush(stdout)
20
21 #define mSLEEP(delay) usleep((int)(delay*1000))
23 #define COMPANY "Green Systems\n\n\n"
25 #define BUF_SIZE 256
                         // max size of buffers
27 #define SENSOR_MAX_NUM 8
                         // max number of devices
29 #define COMM_PORT 44444
                         // sensor ports
30
31 //-----
32
33 typedef struct {
                         // sensor data
                     // sensor ID
// sequence number of data
34 unsigned deviceID;
35 unsigned sequenceNr;
                      // temperature: measured
// temperature: reference
   float valIS;
36
    float valREF;
37
  int status; // status
39 } SensorData, *SensorDataPtr;
40
41 //----
42
43 typedef struct {
                                        // message data
44 int sequenceNr;
45
    int deviceID;
    float delta;
46
    char statusText[64];
47
48 } MessageData, *MessageDataPtr;
49
50 #define MSG_TYPE 3333L
                                         // message type
51
52 typedef struct {
                                         // message
53 long msgType;
                                         // type
    MessageData mdata;
                                         11
                                              data
55 } Message, *MessagePtr;
57 #define MSG_LENGTH (sizeof(Message) - sizeof(long)) // length of message
59 //----
61 #define MSG_TYPE1 3334L
                                         // message type
62
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63 typedef struct {
                                        // message type 1
64 long msgType;
                                        // type
65 int numOfSensors;
                             //
                                number of sensors
66 float ctrl[SENSOR_MAX_NUM];
                                        // data
67 } Msg, *MsgPtr;
69 #define MSG_LENGTH1 (sizeof(Msg) - sizeof(long)) // length of message
71 //----
72
73 #define PROJECT_ID 201
74 #define SEM_KEY_FILE (const char *)("/tmp/my_sem_key.tmp")
75 #define SHM_KEY_FILE (const char *)("/tmp/my_shm_key.tmp")
76 #define MBOX_KEY_FILE (const char *)("/tmp/my_box_key.tmp")
77
78 //-----
79
80 #endif
```