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/*****
Template header file for Hierarchical Sate Machines AKA StateCharts
02/08/12 adjsutments for use with the Events and Services Framework Gen2
3/17/09 Fixed prototpyes to use Event_t
*****/

#ifndef SUDDEN_DEATH_HSM_H
#define SUDDEN_DEATH_HSM_H

#include "ES_Types.h"
#include "ES_Configure.h"
#include "ES_Timers.h"
#include "ADS12.h"
#include <hidef.h>
#include <mc9s12e128.h>
#include <Bin_Const.h>
#include <termio.h>
#include <S12eVec.h>
#include <stdio.h>
#include <S12e128bits.h> //from osagi's file, is this redundant?
#include <stdlib.h>
#include "MasterHSM.h"
#include "DrivingHSM.h"
#include "JoustingSM.h"
#include "ShootingSM.h"
#include "SensorService.h"
#include "MotorService.h"

// typedefs for the states
// State definitions for use with the query function
typedef enum {Charging, Completing} SuddenDeathState_t ;

// Public Function Prototypes
ES_Event RunSuddenDeathHSM(ES_Event CurrentEvent);
void StartSuddenDeathHSM(ES_Event CurrentEvent);
SuddenDeathState_t QuerySuddenDeathHSM(void);

// #define PRINT_SUDDEN_DEATH_HSM_CALLS
// #define PRINT_SUDDEN_DEATH_HSM_STATES
// #define PRINT_SUDDEN_DEATH_HSM_EVENTS

#define LANCE_DELAY_TIMER 7
#define LANCE_DELAY_INTERVAL_MS 500

#endif /* SUDDEN_DEATH_HSM_H */

```