Vehicle_Speedometer_Module.h

```
/*
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meeting
 * course requirements at degree granting institutions only.  Not
for
 * government, commercial, or other organizational use.
 *
 * File: Vehicle_Speedometer_Module.h
 *
 * Code generated for Simulink model 'Vehicle_Speedometer_Module'.
 *
 * Model version                  : 1.35
 * Simulink Coder version         : 9.7 (R2022a) 13-Nov-2021
 * C/C++ source code generated on : Sun Mar 19 04:03:56 2023
 *
 * Target selection: ert.tlc
 * Embedded hardware selection: Intel->x86-64 (Mac OS X)
 * Code generation objectives: Unspecified
 * Validation result: Not run
 */

#ifndef RTW_HEADER_Vehicle_Speedometer_Module_h_
#define RTW_HEADER_Vehicle_Speedometer_Module_h_
#ifndef Vehicle_Speedometer_Module_COMMON_INCLUDES_
#define Vehicle_Speedometer_Module_COMMON_INCLUDES_
#include "rtwtypes.h"
```

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#endif                         /*
Vehicle_Speedometer_Module_COMMON_INCLUDES_ */


#include "Vehicle_Speedometer_Module_types.h"


/* Macros for accessing real-time model data structure */

#ifndef rtmGetErrorStatus

#define rtmGetErrorStatus(rtm)         ((rtm)->errorStatus)

#endif


#ifndef rtmSetErrorStatus

#define rtmSetErrorStatus(rtm, val)    ((rtm)->errorStatus = (val))

#endif


/* Block signals (default storage) */

typedef struct {

  uint16_T DisplaySpeed_Filter;        /* '<S2>/Add' */

} B_Vehicle_Speedometer_Module_T;


/* External inputs (root inport signals with default storage) */

typedef struct {

  uint8_T In_MainFilt_SpeedValue;      /* '<Root>/
In_MainFilt_SpeedValue' */

  uint8_T In_AuxFilt_SpeedValue;       /* '<Root>/
In_AuxFilt_SpeedValue' */

  uint16_T Avg_VehicleSpeed;           /* '<Root>/Avg_VehicleSpeed'
*/

  uint16_T Timer_Input;                /* '<Root>/Timer_Input' */

} ExtU_Vehicle_Speedometer_Modu_T;
```

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/* External outputs (root outports fed by signals with default
storage) */

typedef struct {

  uint16_T Out_VehicleSpeed_Display;   /* '<Root>/
Out_VehicleSpeed_Display' */

} ExtY_Vehicle_Speedometer_Modu_T;


/* Real-time Model Data Structure */

struct tag_RTM_Vehicle_Speedometer_M_T {

  const char_T * volatile errorStatus;

};


/* Block signals (default storage) */

extern B_Vehicle_Speedometer_Module_T Vehicle_Speedometer_Module_B;


/* External inputs (root inport signals with default storage) */

extern ExtU_Vehicle_Speedometer_Modu_T Vehicle_Speedometer_Module_U;


/* External outputs (root outports fed by signals with default
storage) */

extern ExtY_Vehicle_Speedometer_Modu_T Vehicle_Speedometer_Module_Y;


/* Model entry point functions */

extern void Vehicle_Speedometer_Module_initialize(void);

extern void Vehicle_Speedometer_Module_step(void);

extern void Vehicle_Speedometer_Module_terminate(void);
```

```
/* Real-time Model object */
```