#include <salvo.h>

typedef unsigned char t\_boolean;

typedef unsigned char t\_temp;

/\* Local flag. \*/

t\_boolean warm = FALSE;

/\* Seat temperature functions. \*/

extern t\_temp UserTemp( void );

extern t\_temp SeatTemp( void );

extern t\_boolean CtrlTemp( t\_temp user, seat );

/\* Moderate-priority (i.e. 8) task (i.e. #1) \*/

/\* to maintain seat temperature. CtrlTemp() \*/

/\* returns TRUE only if the seat is at the \*/

/\* the desired (user) temperature. \*/

void TaskControl( void )

{

while (1)

{

warm = CtrlTemp(UserTemp(), SeatTemp());

OS\_Yield();

}

}

/\* High-priority (i.e. 3) task (i.e. #2) to \*/

/\* generate pulses. System ticks are 10ms. \*/

void TaskStatus( void )

{

/\* initialize pulse output (low). \*/

TX\_PORT &= ~0x01;

while (1)

{

OS\_Delay(100);

TX\_PORT |= 0x01;

OS\_Delay(5);

TX\_PORT &= ~0x01;

if (warm)

{

OS\_Delay(5);

TX\_PORT |= 0x01;

OS\_Delay(5);

TX\_PORT &= ~0x01;

}

}

}

/\* Initialize Salvo, create and assign

priorities to the tasks, and begin

multitasking.\*/

int main( void )

{

OSInit();

OSCreateTask(TaskControl, OSTCBP(1), 8);

OSCreateTask(TaskStatus, OSTCBP(2), 3);

while (1) {

OSSched();

}

}