Module defines:

 PWMPeriodTicks

 RELEASE\_DELAY

Module functions:

 InitializePWM

Module variables:

 MyPriority

Function: InitServoService

Params: Priority

Returns bool

Save priority for this service

InitializePWM

End InitServoService

Function: PostServoService

Params: Event to post

Returns bool

Return result of posting to this service

End PostServoService

Function: RunServoService

Params: Event to process

Returns: event

If this event is ES\_PRESS\_KEYBOARD

 PressKeyboard

Endif

If this event is ES\_RELEASE\_KEYBOARD

 Start SERVO\_RELEASE\_TIMER

Endif

If this event is ES\_TIMEOUT of SERVO\_RELEASE\_TIMER

 ReleaseKeyboard();

endif

End RunServoService

Function: ReleaseKeyboard

Params: none

Returns none

Set PWM position to up

End ReleaseKeyboard

Function: PressKeyboard

Params: none

Returns none

Set PWM position to down

End PressKeyboard

Function: InitializePWM

Params: none

Returns none

Set output active high (PWM6POL to 0)

Load T2PR with PWM period (155) corresponding to 50hz

Set initial PWM position up

Choose clock source: MFINTOSC (31.25kHz)

Set prescaler 1:4

Clear interrupt flag

Enable TMR2

Disable interrupt for TMR2

Set pin as digital output (RC2)

Set up RC2 for PWM6

Enable PWM6 module

End InitializePWM