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// NewTone Library - v1.0 - 01/20/2013

//

// AUTHOR/LICENSE:

// Created by Tim Eckel - teckel@leethost.com

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//

// LINKS:

// Project home: http://code.google.com/p/arduino-new-tone/

// Blog: http://arduino.cc/forum/index.php/XXX

//

// DISCLAIMER:

// This software is furnished "as is", without technical support, and with no

// warranty, express or implied, as to its usefulness for any purpose.

//

// PURPOSE:

// Almost 1,300 bytes smaller code size than the Tone library. Faster execution

// time. Exclusive use of port registers for fastest and smallest code. Higher

// quality sound output than tone library. Plug-in replacement for Tone. Uses

// timer 1 which may free up conflicts with the tone library.

//

// SYNTAX:

// NewTone( pin, frequency [, length ] ) - Play a note on pin at frequency in Hz.

// Parameters:

// \* pin - Pin speaker is wired to (other wire to ground, be sure to add an inline 100 ohm resistor).

// \* frequency - Play the specified frequency indefinitely, turn off with noNewTone().

// \* length - [optional] Set the length to play in milliseconds. (default: 0 [forever], range: 0 to 2^32-1)

// noNewTone(pin) - Stop playing note (pin is optional, will always stop playing on pin that was last used).

//

// HISTORY:

// 01/20/2013 v1.0 - Initial release.

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// ---------------------------------------------------------------------------

#ifndef NewTone\_h

#define NewTone\_h

#if defined(ARDUINO) && ARDUINO >= 100

#include <Arduino.h>

#else

#include <WProgram.h>

#endif

#if defined(\_\_AVR\_ATmega8\_\_) || defined(\_\_AVR\_ATmega128\_\_)

#define TIMSK1 TIMSK

#endif

void NewTone(uint8\_t pin, unsigned long frequency, unsigned long length = 0);

void noNewTone(uint8\_t pin = 0);

#endif