Logic - Modulate, Oscillate, and TCDThirdPWM

Example Code

```
/*************************************************************************|
  | tinyAVR Configurable Custom Logic library                              |
  |                                                                        |
  | Modulate.ino                                                           |
  |                                                                        |
  | A library for interfacing with the megaAVR Configurable Custom Logic. |
  | Developed in 2019 by MCUdude.                                          |
  | https://github.com/MCUdude/                                            |
  |                                                                        |
  | In this example we use the configurable logic peripherals of the       |
  | tinyAVR to achieve the "modulate one timer's wave output with another"|
  | behavior like some of the more full-featured classic megaAVR parts     |
  | We set one input to TCA0 WO1, the other to TCB1 WO, and mask the third|
  | and set the truth table so that the output is only HIGH when both are |
  | As can be immediately seen, this is vastly more powerful than what the|
  | classic AVRs were capable of, where this could be done only with two  |
  | timers on a single pin.                                                |
  | We could even use the CCL as an event generator to move the output to |
  | one of the EVOUT pins!                                                 |
  |************************************************************************/

#include <Logic.h>

void setup() {


  Logic0.enable = true;               // Enable logic block 0

  Logic0.input0 = in::tca0;                       // Use TCA WO0 as input0
  Logic0.input1 = in::tcb1;   // Use TCB1 WO as input 1
  Logic0.input2 = in::masked;   // mask input 2
  //Logic0.output_swap = out::pin_swap; // Uncomment this line to route the output
to alternate location, if available.
  Logic0.output = out::enable;        // Enable logic block 0 output pin or PA4
(ATtiny))
  Logic0.filter = filter::disable;    // No output filter enabled
  Logic0.truth = 0x08;                // Set truth table - HIGH only if both high

  // Initialize logic block 0
  Logic0.init();

  // Start the AVR logic hardware
  Logic::start();
  analogWrite(PIN_PB0, 128); //start TCA0 WO0 running
  TCB1.CTRLA = 0x01; //enabled with CLKPER as clock source
  TCB1.CTRLB = 0x07; //PWM8 mode, but output pin not enabled
```

```
  TCB1.CCMPL = 255; //255 counts
  TCB1.CCMPH = 128; //50% duty cycle
}

void loop() {
  // When using configurable custom logic the CPU isn't doing anything!
}
```

```
/*************************************************************************|
  | megaAVR Configurable Custom Logic library                             |
  |                                                                       |
  | Oscillate.ino                                                         |
  |                                                                       |
  | A library for interfacing with the megaAVR Configurable Custom Logic. |
  | Developed in 2019 by MCUdude. https://github.com/MCUdude/             |
  | Example by Spence Konde, 2020 https://github.com/SpenceKonde/         |
  |                                                                       |
  | In this example, we demonstrate the fact that these are ASYNCHRONOUS  |
  | by (ab)using the CCL in a configuration which will oscillate - this   |
  | example uses two logic blocks - though there are plenty of ways to    |
  | make it oscillate with a single one (see if you can come up with some |
  | - assuming you find this fun). If you set values for the filter, you  |
  | get sane output frequencies - just what one would expect from the     |
  | datasheet. But what fun is that?! If you turn them both off, it       |
  | oscillates much faster - faster than the clock speed! with a sawtooth |
  | waveform which (measured by my 'scope) clocks in at 37 MHz - from a   |
  | part running at 20 MHz! Different configurations will result in       |
  | different frequencies. The simplest one can oscillate at a whopping   |
  | 92 MHz!                                                               |
  |                                                                       |
  | It is temperature dependenr - point a can of freeze spray (computer   |
  | duster held upside-down, so the liquid comes out) and the frequency   |
  | goes up. Aim a heat-gun or torch at it (use care - freeze spray DOES  |
  | burn, and you do NOT want to inhale the combustion products or cause  |
  | an inferno in your lab.) and the frequency goes down. Warnings:       |
  | Hitting hot parts with freeze spray may crack the package, ruining the|
  | part, and freeze spray will cause frost to form on the parts. Best to |
  | disconnect them from power while they thaw and dry off before applying|
  | power to them again. PCBs also burn if you are not careful with that  |
  | torch) This is maximum-speed oscillation is of essentially zero       |
  | practical use, but it sure is cool isn't it?                          |
  |                                                                       |
  | Maybe it could be used to examine a new silicon revision to see if    |
  | there were any significant process changes? *shrug*                   |
  |                                                                       |
  | And yes, if you happen to want your part to run at an indeterminate   |
  | and highly temperature dependent speed, you could then set the system |
  | clock prescaler to 2, connect a jumper between the Logic0 output pin  |
  | and EXTCLK pin, and switch to the external clock, leading to it       |
  | running at around 18.5 MHz with wide variation depending on conditions|
  | This is not recommended except as a silly joke, and it is thoroughly  |
```

```
  | useless. Maybe if you miss the +/- 10% tolerance on the classic AVR   |
  | internal oscillator?                                                  |
  |                                                                       |
  | In combination with the synchronizer/filter, though, it is has the    |
  | potential to be far more useful - as it will allow generation of a    |
  | prescaled system clock. On parts where a TCB can be clocked from an   |
  | event, this allows one to work around the limited prescale options    |
  | available for TCBs, without having to change the TCA prescaler. For   |
  | more information on this, see: https://github.com/SpenceKonde/        |
  | AVR-Guidance/blob/master/CCL_EVSYS_hacks/CCL_prescaling.md            |
  |                                                                       |
  |***********************************************************************/

#include <Logic.h>
#include <Event.h>

//#define SHOW_TCD_DEMO


void setup() {
  #if defined(SHOW_TCD_DEMO) && !defined(MEGATINYCORE)
  /* The demonstration of clocking TCD0 from the output of a Logic block
   * requires use of the EXT_CLK pin, which is PA0 on those parts, the same as
   * the non-alternate TX pin for Serial on these parts; the Serial pins must
   * be swapped in this case.
   */
  Serial.swap(1);
  #endif
  Serial.begin(115200);
}


void demo1() {
  /* Async Demo 1: Just how fast is this "asynchronous" stuff?
   *
   * First, let's do the most obvious case - enable a single input, set it as
feedback, and tell the logic block to turn on when the input is LOW and off when
input is HIGH. If using a 'scope, monitor the output pin, and turn the bandwidth
limit to full, not 20M).
   * My oscilloscope is clocking the output of this at an eye-popping 110 MHz!
   */
  Logic::stop();                            // Stop the CCL so changes can be made


  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                     // Enable logic block 0
  Logic0.input0 = in::feedback;             // feedback
  Logic0.input1 = in::masked;               // masked
  Logic0.input2 = in::masked;               // masked
  Logic0.output = out::enable;              // Enable logic block 0 output pin on
PA3 (non-tiny) or PA4 (tiny)
  Logic0.filter = filter::disable;          // No output filter enabled
  Logic0.truth = 0x01;                      // Set truth table: Invert, HIGH if
input0 LOW
```

```
  Logic0.init();                          // Initialize logic block 0


  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                          // Not Used. Stop Event0 (if it was
running).


  /* Logic1 - CCL LUT1 */
  Logic1.enable = false;                  // Not using Logic1
  Logic1.init();                          // Initialize logic block 1 to apply
the enable=false


  Logic::start();                         // Start the CCL hardware
}

void demo2() {
  /* Async demo 2: Adding a second Logic stage
   *
   * Run it through one of the other Logic blocks...
   * Remember that in::feedback gives the output of the even logic block, not the
one it's used with
   * There's no pre-defined input for the output of the odd logic block (sadly).
   * Only feedback for the even one out of the pair, and link for the next
highest.
   * This logic block will be set up to just echo it's input, rather than invert
it.
   *
   * 'scope shows 55 MHz here (about exactly half)
   */
  Logic::stop();                          // Stop the CCL so changes can be made


  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                   // Enable logic block 0
  Logic0.input0 = in::link;               // Use output of next logic block
(Logic1)
  Logic0.input1 = in::masked;             // masked
  Logic0.input2 = in::masked;             // masked
  Logic0.output = out::enable;            // Enable logic block 0 output pin on
PA3 (non-tiny) or PA4 (tiny)
  Logic0.filter = filter::disable;        // No output filter enabled
  Logic0.truth = 0x01;                    // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                          // Initialize logic block 0


  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                          // Not Used. Stop Event0 (if it was
running).


  /* Logic1 - CCL LUT1 */
```

```
  Logic1.enable = true;                     // Enable logic block 1
  Logic1.input0 = in::feedback;             // use output of even-numbered block,
ie, block 0
  Logic1.input1 = in::masked;               // masked
  Logic1.input2 = in::masked;               // masked
  Logic1.output = out::enable;              // enable logic block 1 output pin
  Logic1.filter = filter::disable;          // No output filter enabled
  Logic1.truth = 0x02;                      // Set truth table: Copy, HIGH if
input0 HIGH
  Logic1.init();                            // Initialize logic block 1


  Logic::start();                           // Start the CCL hardware

}
void demo3() {
  /* Async Demo 3: Using event channel stage
   *
   * Now, we will take an event channel and point it at the CCL0 generator, set
CCL0 as the user of that event
   * This is a useful technique for getting a "feedback" for an odd logic block,
as their "feedback" comes from
   * the even block they are associated with.
   *
   * Same as before - 55 MHz
   */
  Logic::stop();                            // Stop the CCL so changes can be made

  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                     // Enable logic block 0
  Logic0.input0 = in::event_a;              // use event channel A - a virtual
feedback
  Logic0.input1 = in::masked;               // masked
  Logic0.input2 = in::masked;               // masked
  Logic0.output = out::enable;              // Enable logic block 0 output pin on
PA3 (non-tiny) or PA4 (tiny)
  Logic0.filter = filter::disable;          // No output filter enabled
  Logic0.truth = 0x01;                      // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                            // Initialize logic block 0

  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                            // Stop Event0 (if it was running)
  Event0.set_generator(gen::ccl0_out);      // Use output of Logic0
  Event0.set_user(user::ccl0_event_a);      // Connect Event0 (carrying Logic0
output) to Logic0 event A input
  Event0.start();                           // Enable Event0

  /* Logic1 - CCL LUT1 */
  Logic1.enable = false;                    // Not using Logic1
  Logic1.init();                            // Initialize logic block 1 to apply
the enable=false

  Logic::start();                           // Start the CCL hardware
```

```
}


void demo4() {
  /* Async demo 4: Using both second logic block and event stages
   *
   * Finally, we do both of those together
   * And this time I measure 37 MHz - that is to say, it would appear that each of
these async stages
   * takes about the same length of time. Which probably shouldn't be particularly
surprising.
   *
   * The actual frequency also varies significantly depending on the temperature
and other particulars.
   *
   * Obviously, none of these are particularly useful, though you can do funny (if
pointless) things like clock
   * the chip off of this (probably prescaled) as an external clock or something.
A too-high-frequency signal
   * unmoored from any reference frequency is pretty useless...
   *
   * Next, we'll make some synchronized oscillators which will be more useful!
   *
   */
  Logic::stop();                            // Stop the CCL so changes can be made

  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                     // Enable logic block 0
  Logic0.input0 = in::link;                 // link - use output of Logic1
  Logic0.input1 = in::masked;               // masked
  Logic0.input2 = in::masked;               // masked
  Logic0.output = out::enable;              // Enable logic block 0 output pin on
PA3 (non-tiny) or PA4 (tiny)
  Logic0.filter = filter::disable;          // No output filter enabled
  Logic0.truth = 0x01;                      // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                            // Initialize logic block 0

  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                            // Stop Event0 (if it was running)
  Event0.set_generator(gen::ccl0_out);      // Use output of Logic0 (virtual-
feedback)
  Event0.set_user(user::ccl1_event_a);      // Connect Event0 (carrying Logic0
output) to Logic1 event A input
  Event0.start();                           // Enable Event0

  /* Logic1 - CCL LUT1 */
  Logic1.enable = true;                     // Enable logic block 1
  Logic1.input0 = in::event_a;              // use event channel A
  Logic1.input1 = in::masked;               // masked
  Logic1.input2 = in::masked;               // masked
  Logic1.output = out::enable;              // enable logic block 1 output pin
  Logic1.filter = filter::disable;          // No output filter enabled
```

```
  Logic1.truth = 0x02;                      // Set truth table: Copy, HIGH if
input0 HIGH
  Logic1.init();                            // Initialize logic block 0

  Logic::start();                           // Start the CCL hardware

}

void demo5() {
  /* Sync demo 1: The synchronizer delays each edge by 2 system clock cycles
   *
   * Same setup as original demo1 - except we enable the synchronizer which delays
each transition by 2-3 clocks
   * In practice, we know that the signal will arrive early enough to always be
delayed by only 2 clocks.
   * 2 clocks times 2 transitions gives us 4 clock cycles.
   *
   * We will use the default clock source (CLK_PER, which runs at F_CPU) here.
   *
   * Thus, we end up with a signal of F_CPU/4!
   *
   * This might be more useful!
   */
  Logic::stop();                            // Stop the CCL so changes can be made


  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                     // Enable logic block 0
  Logic0.input0 = in::feedback;             // feedback
  Logic0.input1 = in::masked;               // masked
  Logic0.input2 = in::masked;               // masked
  Logic0.output = out::enable;              // Enable logic block 0 output pin on
PA3 (non-tiny) or PA4 (tiny)
  Logic0.filter = filter::sync;             // Synchronizer - 2 clock-cycle delay
each transition
  Logic0.truth = 0x01;                      // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                            // Initialize logic block 0


  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                            // Not Used. Stop Event0 (if it was
running).


  /* Logic1 - CCL LUT1 */
  Logic1.enable = false;                    // Not using Logic1
  Logic1.init();                            // Initialize logic block 1 to apply
the enable=false


  Logic::start();                           // Start the CCL hardware
}
```

```
void demo6() {
  /* Sync demo 2: The Filter module adds 4 clock cycles per edge, 8 per cycle
   *
   * Same setup as previous - only filter instead of synchronizer. That takes 2
more clocks.
   * on each transition, total of 8. We aren't actually doing any filtering, just
using the delay
   *
   * This way, we end up with a signal of F_CPU/8!
   *
   */
  Logic::stop();                          // Stop the CCL so changes can be made


  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                   // Enable logic block 0
  Logic0.input0 = in::feedback;           // feedback
  Logic0.input1 = in::masked;             // masked
  Logic0.input2 = in::masked;             // masked
  Logic0.output = out::enable;            // Enable logic block 0 output pin on
PA3 (non-tiny) or PA4 (tiny)
  Logic0.filter = filter::filter;         // Filter - 4 clock-cycle delay each
transition
  Logic0.truth = 0x01;                    // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                          // Initialize logic block 0


  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                          // Not Used. Stop Event0 (if it was
running).


  /* Logic1 - CCL LUT1 */
  Logic1.enable = false;                  // Not using Logic1
  Logic1.init();                          // Initialize logic block 1 to apply
the enable=false


  Logic::start();                         // Start the CCL hardware
}

void demo7() {
  /* Sync demo 3: Passing input through another logic block ADDS it's delay
   *
   * Same idea - only second logic block with a synchronizer user, and linked
input.
   *
   * So delays are 8 + 4 = 12, and we end up with of F_CPU/12!
   * Can do the same with filter on both for F_CPU/16....
   * .
   */
  Logic::stop();                          // Stop the CCL so changes can be made
```

```
  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                     // Enable logic block 0
  Logic0.input0 = in::link;                 // output from Logic1
  Logic0.input1 = in::masked;               // masked
  Logic0.input2 = in::masked;               // masked
  Logic0.output = out::enable;              // Enable logic block 0 output pin or
PA4 (ATtiny))
  Logic0.filter = filter::filter;           // Filter - 4 clock-cycle delay each
transition
  Logic0.truth = 0x01;                      // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                            // Initialize logic block 0



  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                            // Not Used. Stop Event0 (if it was
running).


  /* Logic1 - CCL LUT1 */
  Logic1.enable = true;                     // Enable logic block 1
  Logic1.input0 = in::feedback;             // feedback (from logic0)
  Logic1.input1 = in::masked;               // masked
  Logic1.input2 = in::masked;               // masked
  Logic1.output = out::enable;              // enable logic block 1 output pin
  Logic1.filter = filter::sync;             // Synchronizer - 2 clock delay each
transition
  Logic1.truth = 0x02;                      // Set truth table: Copy, HIGH if
input0 HIGH
  Logic1.init();                            // Initialize logic block 1

  Logic::start();                           // Start the CCL hardware
}


void demo8() {
  /* Sync demo 4: Using other logic block as clock MULTIPLIES the delays
   *
   * Two logic blocks.
   * Logic0 is doing as it was in demo7. But in logic block 2, we connect it to
input2
   * and set it to use input 2 as the clock. Then we use an event channel to get
feedback for Logic1
   * as input0, and have this one also oscillate.
   *
   * With the filter on LUT1 clocked from the F_CPU/8 from LUT0, we we are
generating an output of F_CPU/64
   *
   * What does this mean?
   * It means that with a few LUTs and into a prescaled clock on either a pin or
an event channel at a wide
   * variety of fractions of the system clock speed. See the table:
```

```
   * Each frequency is listed only for the least-demanding combination of hardware
that can do it:
   *
   * Divisor           Min logic blocks:
   * /4, /8,           one
   * /12, /16          two
   * /32, /64          two and one event channel   - 8*4 and 8*8
   * /20, /24          three,  no event channel    - L0 + L1 + L2
   * /48, /96, /128    three,  no event channel    - (L0 + L1) * L2
   * /256 /512         three, one event channel    - 8*8*4 and 8*8*8
   * /28               four, no event channel      - L0 + L1 + L2 + L3
   * /144 /192         four, no event channel      - (L0 + L1) * (L2 + L3)
   * /384, /768, /1024 four, one event channel     - (L0 + L1) * L2 * L3
   * /2048, /4096      four, two event channels    - 8*8*8*4 and 8*8*8*8
   *
   * Next, we will demonstrate how to use this to clock a timer.
   */
  Logic::stop();                          // Stop the CCL so changes can be made


  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                   // Enable logic block 0
  Logic0.input0 = in::feedback;           // feedback
  Logic0.input1 = in::masked;             // masked
  Logic0.input2 = in::link;               // input2 (used as clock) from Logic1
  Logic0.clocksource = clocksource::in2;     // Use input 2 as clock instead of
the default
  Logic0.output = out::enable;            // Enable logic block 0 output pin PA3
or PA4 (ATtiny))
  Logic0.filter = filter::filter;         // Filter - 4 clock delay each
transition
  Logic0.truth = 0x01;                    // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                          // Initialize logic block 0



  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                          // Stop Event0 (if it was running)
  Event0.set_generator(gen::ccl1_out);    // Use output of Logic1
  Event0.set_user(user::ccl1_event_a);    // Connect Event0 (carrying Logic1
output) to Logic1 event A input
  Event0.start();                         // Enable Event0


  /* Logic1 - CCL LUT1 */
  Logic1.enable = true;                   // Enable logic block 1
  Logic1.input0 = in::event_a;            // use event A, which is coming from
output of Logic1 (ie, feedback for an odd block)
  Logic1.input1 = in::masked;             // masked
  Logic1.input2 = in::masked;             // masked
  Logic1.output = out::enable;            // enable logic block 1 output pin
  Logic1.filter = filter::filter;         // Filter - 4 clock delay each
transition
```

```
  Logic1.truth = 0x01;                        // Set truth table: Invert, HIGH if
input0 LOW
  Logic1.init();                              // Initialize logic block 1



  Logic::start();                             // Start the CCL hardware
}



void demo9a() {
  /* Using prescaled clocks 1: TCA0 (if you want to try this and don't have a Dx
or tiny 1-series to play with)
   *
   * TCA0 is not a timer that really cries out for prescaling the clock going into
it... it already HAS a prescaler that works fine and doesn't eat CCL
   * But if you're on a megaavr 0-series this is your only option - so we'll do it
for fun. Start with what we had last time - but let's change the
   * filter to a synchronizer on one of the blocks, just to make it different from
normal PWM in some way (64 is default TCA0 prescaler, while 32 isn't
   * an option. And we'll add an event channel to bring carrying the output of
Logic0. Then we'll reconfigure TCA0 to have it generate, uh. 8-bit PWM
   * on pin A2 at the twice frequency it normally would...
   * But it will be doing that without using it's own prescaler!
   * How exciting...
   *     ...
   *           ... Actually, this causes it's prescaler to not effect the TCA's
clock rate.... but it does still effect that of a TCB using it!
   * So depending on how much you need which timer prescaled by, this might be
just as good as getting a prescaler for a TCB (below, Dx/2-series only).
   */

  Logic::stop();                              // Stop the CCL so changes can be made

  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                       // Enable logic block 0
  Logic0.input0 = in::feedback;               // feedback
  Logic0.input1 = in::masked;                 // masked
  Logic0.input2 = in::link;                   // input2 (used as clock) from Logic1
  Logic0.clocksource = clocksource::in2;      // Use input 2 as clock instead of the
default
  Logic0.output = out::enable;                // Enable logic block 0 output pin PA3
or PA4 (ATtiny))
  Logic0.filter = filter::filter;             // Filter - 4 clock delay each
transition
  Logic0.truth = 0x01;                        // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                              // Initialize logic block 0



  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                              // Stop Event0 (if it was running)
```

```
  Event0.set_generator(gen::ccl1_out);      // Use output of Logic1
  Event0.set_user(user::ccl1_event_a);      // Connect Event0 (carrying Logic1
output) to Logic1 event A input
  Event0.start();                           // Enable Event0


  /* Logic1 - CCL LUT1 */
  Logic1.enable = true;                     // Enable logic block 1
  Logic1.input0 = in::event_a;              // use event A, which is coming from
output of Logic1 (ie, feedback for an odd block)
  Logic1.input1 = in::masked;               // masked
  Logic1.input2 = in::masked;               // masked
  Logic1.output = out::enable;              // enable logic block 1 output pin
  Logic1.filter = filter::sync;             // Filter - 4 clock delay each
transition
  Logic1.truth = 0x01;                      // Set truth table: Invert, HIGH if
input0 LOW
  Logic1.init();                            // Initialize logic block 1

  /* Event1 - EVSYS CHANNEL1 */
  Event1.stop();                            // Stop Event1 (if it was running)
  Event1.set_generator(gen::ccl0_out);      // Use output of Logic0
  Event1.set_user(user::tca0_cnta);         // Connect Event1 (carrying Logic0
output) to TCA0 event a
  Event1.start();                           // Enable Event1

  Logic::start();                           // Start the CCL hardware

  /* TCA0 - Type A timer */
  TCA0.SPLIT.CTRLA &= ~TCA_SPLIT_ENABLE_bm; // disable and reset
  TCA0.SPLIT.CTRLESET = TCA_SPLIT_CMD_RESET_gc | TCA_SPLIT_CMDEN_BOTH_gc;

  // Set single-slope PWM mode, on CMP2
  TCA0.SINGLE.CTRLB = TCA_SINGLE_CMP2EN_bm | TCA_SINGLE_WGMODE_SINGLESLOPE_gc;

  // set PORTMUX so that the TCA waveform output appears on PORTA
  PORTMUX.TCAROUTEA = 0;

  // Count on positive edge, cnta event input
  TCA0.SINGLE.EVCTRL = TCA_SINGLE_EVACTA_CNT_POSEDGE_gc | TCA_SINGLE_CNTAEI_bm;

  // counting to 254 is the same thing that the timers are configured to do by
default (at least on DxCore and megaTinyCore)
  // so we're going to be expecting a 25% duty cycle
  TCA0.SINGLE.PER = 254;
  TCA0.SINGLE.CMP2 = 63;

  // And turn it back on!
  TCA0.SINGLE.CTRLA |= TCA_SINGLE_CLKSEL_DIV256_gc | TCA_SINGLE_ENABLE_bm;


}

void demo9b() {
```

```
  /* Divided Clocks: TCB0 - prescale it without dedicating the prescaler of a TCA
to it!
   *
   * The type B timers are every AVR developers dream as utility timers. There are
only two issues with them -
   * the first being that they're awful for PWM (but you have TCAs for that) and
they dont have an independent
   * prescaler - they can either use a TCA prescaler, CLK_PER, or CLK_PER/2.
Sometimes you really need to time
   * something that's a bit too long for CLK_PER/2, but you've got the TCA's way
down at /64 or /256 for PWM
   * and you don't want to throw away all that accuracy. Or maybe you're writing a
library, or code you expect
   * to be copy-pasted all over by people who don't understand it, who might be
mixing it with other libraries?
   * (though, to be faaiiir, the official cores basically fall over like a house
of cards the moment you turn off the prescal)
   *
   * The AVR Dx and tinyAVR 2-series added the ability to clock on event, so you
can now easily use the clock
   * generated as in the other examples to clock a TCB!
   *
   * We will use PWM frequency to demonstrate the change, though. Mostly because I
have
   */

  Logic::stop();                              // Stop the CCL so changes can be made

  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                       // Enable logic block 0
  Logic0.input0 = in::feedback;               // feedback
  Logic0.input1 = in::masked;                 // masked
  Logic0.input2 = in::masked;                 // masked
  Logic0.clocksource = clocksource::clk_per;// Use CLK_PER (default) as clock
source once more.
  Logic0.output = out::enable;                // Enable logic block 0 output pin on
PA3 (non-tiny) or PA4 (tiny)
  Logic0.filter = filter::filter;             // Filter - 4 clock-cycle delay each
transition
  Logic0.truth = 0x01;                        // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                              // Initialize logic block 0


  /* Event0 - EVSYS CHANNEL0 */
  Event0.set_generator(gen::ccl0_out);        // Use output of Logic0
  Event0.set_user(user::tcb0_cnt);            // Connect Event0 (carrying Logic0
output) to TCB0 count
  Event0.start();                             // Enable Event0


  /* Logic1 - CCL LUT1 */
  Logic1.enable = false;                      // Not using Logic1
  Logic1.init();                              // Initialize logic block 1 to apply
```

```
the enable=false

  /* Event1 - EVSYS CHANNEL1 */
  Event1.stop();                            // Not Used. Stop Event1 (if it was
running).

  Logic::start();                           // Start the CCL hardware


  /* TCB0 - Timer/Counter Type B */
  TCB0.CTRLA = 0;
  TCB0.CTRLA = TCB_CLKSEL_DIV2_gc | TCB_ENABLE_bm;  // Switch to clk_per clock &
enable
  Serial.println("Before (CLK_PER/2): ~47 kHz");    // 24 / 2 = 12 MHz, 12 MHz /
255 count/cycle = ~47 kHz
  analogWrite(PIN_PF4, 128);                         // Output some pwm to demo
change in frequency
  delay(5000);
  TCB0.CTRLA = 0;                                   // Disable TCB0
  TCB0.CTRLA = TCB_CLKSEL_EVENT_gc | TCB_ENABLE_bm; // Switch to event clock &
enable
  Serial.println("After: ~11.7 kHz");               // 24 / 8 = 3 MHz, 3 MHz / 255
count/cycle = ~11.7 kHz

  /* To be clear: The PWM mode is just being used to give numbers, and something
that looks good on a 'scope screen.
   * the typical use case for playing with the timer when you want a prescaler
between the "8-bit analogWrite-like-PWM" prescalers and the
   * /4, /8, /12, and /16 range is timing that you need to be more precise than
you can get with micros. Alternately, if you're taking over your
   * only TCA for 16-bit PWM, you might instead need to slow down the clock on the
TCBs to get some plain 8-bit PWM down at a more tractable
   * frequency.
   *
   * One thing to remember is that you can have as many users as you want on a
channel - you only need to make the desired clock rate once
   * and you can use it on everything.
   */


}

void demo9d() {
  /* Using prescaled clocks 1: TCD0 pre-prescaler
   *
   * Finally, though we need a jumper to do so (between PA3 and PA0) we can also
use this output as the "external clock". We'll leave the /8 prescale
   *
   * Now you may be thinking "Why on earth would I ever want to do this?! TCD0 HAS
a prescaler!"
   * Yes. Yes it does. And it's options are 1, 2, 4, and 8. And then that can be
further divided by 1, 4, or 32 for count, and 1, 2, 4, or 8 for delay.
   * Meaning that if you're using the delay event as shown in the TCDThirdPWM
example to get another channel, the highest prescale you can get is /64,
```

```
   * and it's an 8-bit timer. At the higher end of the clock speed, those
frequencies are getting faster than you would like to PWM a power MOSFET gate
   * directly (you don't want much over 1 kHz for that, at least with a beefy
MOSFET - high frequency PWM of large loads generally needs a gate driver).
   *
   * For this, you need a jumper - as short as you can make it - between PA0 and
PA3, because we can't pipe events directly in as clock sources for TCD0.
   * We can, however use an "external" clock by connecting the output of the LUT,
PA3 to the CLK_IN pin, PA0. Frequencies are high enough that you want
   * it short - at least if you want the first few demos to work with the jumper
in place.
   * I used a piece of female pin header with the two middle pins yanked out, and
4-hole piece of strip-board.
   *
   * This is not a guide to configuration of the the Type D timer for Arduino
users. That is a subject for an entirely different document. The TCD0
   * configuration steps are not commented extensively. Refer to the datasheet for
more detailed information; it may be the most complicated
   * peripheral of the AVR architecture.
   *
   */

  Logic::stop();                              // Stop the CCL so changes can be made

  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                       // Enable logic block 0
  Logic0.input0 = in::feedback;               // feedback
  Logic0.input1 = in::masked;                 // masked
  Logic0.input2 = in::masked;                 // masked
  Logic0.output = out::enable;                // Enable logic block 0 output pin on
PA3 (non-tiny) or PA4 (tiny)
  Logic0.filter = filter::filter;             // Filter - 4 clock-cycle delay each
transition
  Logic0.truth = 0x01;                        // Set truth table: Invert, HIGH if
input0 LOW
  Logic0.init();                              // Initialize logic block 0


  /* Event0 - EVSYS CHANNEL0 */
  Event0.set_generator(gen::ccl0_out);        // Use output of Logic0
  Event0.set_user(user::tcb0_cnt);            // Connect Event0 (carrying Logic0
output) to TCB0 count
  Event0.start();                             // Enable Event0


  /* Logic1 - CCL LUT1 */
  Logic1.enable = false;                      // Not using Logic1
  Logic1.init();                              // Initialize logic block 1 to apply
the enable=false

  /* Event1 - EVSYS CHANNEL1 */
  Event1.stop();                              // Not Used. Stop Event1 (if it was
running).
```

```
  Logic::start();                           // Start the CCL hardware


  /* TCD0 - Timer/Counter Type D */
  TCD0.CTRLA = 0;                           // Stop the timer, clear CTRLA.
  // This puts it into the state we describe in the TCDThirdPWM example.
  TCD0.CTRLA = (TCD_CNTPRES_DIV4_gc | TCD_SYNCPRES_DIV8_gc | TCD_CLKSEL_OSCHF_gc);
  // In Arduino-land, usually OSCHF = CLK_PER unless external crystal or clock
  // is used or the "safe operating area" forces one to use lower voltage, but
  // that's not a thing on the AVR Dx-series.
  while (!(TCD0.STATUS & TCD_ENRDY_bm));     // Wait until ENRDY (Enable Ready)
  TCD0.CTRLA |= TCD_ENABLE_bm;              // Re-enable TCD0

  // Start some PWM so we can see the change in frequency 1.46 kHz is pushing it
  // if controlling a big beefy power MOSFET (like, say, an MCU90N02)
  Serial.println("Before: ~1.46 kHz @ 24 MHz OSCHF/CLK_PER");
  analogWrite(PIN_PA6, 128);                 // Output 50% duty cycle on PIN_PA6
  delay(5000);


  /* TCD0 - Timer/Counter Type D */
  TCD0.CTRLA &= ~TCD_ENABLE_bm;             // Stop the timer
  TCD0.CTRLA &= ~TCD_CLKSEL_gm;             // Clear the clksel bits (though they
weren't set by default)
  TCD0.CTRLA |= TCD_CLKSEL_EXTCLK_gc;       // Use external clock
  while (!(TCD0.STATUS & TCD_ENRDY_bm));     // Wait until ENRDY (Enable Ready)
  TCD0.CTRLA |= TCD_ENABLE_bm;              // Re-enable TCD0
  Serial.println("After: ~183 Hz");

  // Obviously, 183 Hz is too slow for almost any purpose... however, that's /32
and /64 prescaling!
  // If we went back to a sync prescale of /2 instead of /8 within the TCD0
peripheral,
  // we would have 750 Hz output, with option to double it  or halve it by
changing
  // sync prescale, all while keeping the period of the "real" PWM channels and
that of the third
  // "fake" PWM made from PROGEV equal to each other - which is just what I
wanted.

}

void demo10() {
  /* Another route to scaled clocks on event channel: TCD+PLL+CCL
   *
   * The idea of this is straightforward - less "weird" than the other approach,
really.
   * Though it uses a precious resource:
   *       Your type D timer.
   *
   * The Logic blocks can take the Waveform Output of the timers as inputs, and
output it unchanged.
   *
   * All you need to do is run the timer at a given speed....Using the PLL helps
```

```
   * in terms of getting the resolution you need to divide it down.
   * The dither mode could also help, if the consumer of the clock cycles can
handle the jitter.
   *
   */
  Logic::stop();                          // Stop the CCL so changes can be made


  /* CLKCTRL - Clock Controller */
  // Enable the PLL -
  _PROTECTED_WRITE(CLKCTRL_PLLCTRLA, CLKCTRL_MULFAC_2x_gc);


  /* TCD0 - Timer/Counter Type D */
  TCD0.CTRLA = 0;                         // Stop the timer, clear CTRLA.
  // Turn off all prescaling
  TCD0.CTRLA = (TCD_CNTPRES_DIV1_gc | TCD_SYNCPRES_DIV1_gc | TCD_CLKSEL_PLL_gc);
  uint8_t period = 18;                    // 48 MHz / 18 = 2.66667 MHz
  TCD0.CMPBSET = (period / 2) - 1;             // Switch the output halfway
through a cycle
  TCD0.CMPBCLR = period - 1;                // 0 is a count, so we subtract 1
from each
  while (!(TCD0.STATUS & TCD_ENRDY_bm));     // Wait until ENRDY (Enable Ready)
  TCD0.CTRLA |= TCD_ENABLE_bm;            // Re-enable TCD0



  /* Logic0 - CCL LUT0 */
  Logic0.enable = true;                   // Enable logic block 0
  Logic0.input0 = in::masked;             // masked - this would be WOA, we want
WOB
  Logic0.input1 = in::tcd;                // TCD0 WOB
  Logic0.input2 = in::masked;             // masked
  Logic0.clocksource = clocksource::clk_per;// Nothing clock-dependent here.
  Logic0.output = out::enable;            // Enable logic block 0 output pin PA3
or PA4 (ATtiny))
  Logic0.filter = filter::disable;        // No need for filter
  Logic0.truth = 0x04;                    // Set truth table: Copy, HIGH if
input1 HIGH
  Logic0.init();                          // Initialize logic block 0



  /* Event0 - EVSYS CHANNEL0 */
  Event0.stop();                          // Stop Event0 (if it was running)
  Event0.set_generator(gen::ccl0_out);    // Use output of Logic1
  Event0.set_user(user::tcb0_cnt);        // Connect Event0 (carrying Logic0
output) to TCB0 COUNT
  Event0.start();                         // Enable Event0


  /* Logic1 - CCL LUT1 */
  Logic1.enable = false;                  // Not using Logic1
  Logic1.init();                          // Initialize logic block 1 to apply
```

```
the enable=false

  /* Event1 - EVSYS CHANNEL1 */
  Event1.stop();                              // Not Used. Stop Event1 (if it was
running).


  /* TCB0 - Timer/Counter Type B */
  analogWrite(PIN_PF4, 128);                          // Output some pwm to demo
frequency
  TCB0.CTRLA = 0;                                    // Disable TCB0
  TCB0.CTRLA = TCB_CLKSEL_EVENT_gc | TCB_ENABLE_bm; // Switch to event clock &
enable
  Serial.println("After: ~10.4 kHz");               // 24*2 / 18 = 2.667 MHz,
2.667 MHzz / 255 count/cycle = ~10.4 kHz




  Logic::start();                             // Start the CCL hardware
}




void loop() {
  demo1(); // Async - timer feeding back on itself reaching mindboggling speeds.
  Serial.println("Async: Single logic block, feedback - 100-110 MHz");
  delay(20000);
  Serial.println("Async: out -> second logic block -> link - 50-55 MHz");
  demo2();
  delay(20000);
  Serial.println("Async: out -> event -> input - 50-55 MHz");
  demo3();
  delay(20000);
  Serial.println("Async: out -> event -> second lut -> link - 33-37 MHz");
  demo4();
  delay(20000);
  Serial.println("Clock dividing: Introducing synchronizer - 2 clocks/edge");
  demo5();
  delay(20000);
  Serial.println("Clock dividing: Filter - 4 clocks/edge");
  demo6();
  delay(20000);
  Serial.println("Clock dividing: One logic block into another");
  demo7();
  delay(20000);
  Serial.println("Clock dividing: One logic block clocked from another");
  demo8();
  delay(20000);
  Serial.println("Divided clocks: TCA0 - n");
  demo9a();
  delay(20000);
  TCA0.SINGLE.CTRLA &= ~TCA_SINGLE_ENABLE_bm;
```

```
  #ifdef TCB_CLKSEL2_bm // Only parts with the third CLKSEL bit have event clock
  Serial.println("Divided clocks: TCB gets independent prescaler! Dx/2-series
only");
  demo9b();
  delay(10000);
  digitalWrite(PIN_PF4, 0);
  pinMode(PIN_PF4, INPUT);
  #endif

  #if defined(SHOW_TCD_DEMO) && defined(TCD0)
  Serial.println("Divided clocks: TCD pre-prescaler. Dx/1-series only");
  demo9d();
  delay(10000);
  digitalWrite(PIN_PA6, 0);
  pinMode(PIN_PA6, INPUT);
  #endif

  #if defined(TCD0) && defined(TCB_CLKSEL2_bm)
  Serial.println("Clock dividing: TCD+PLL->CCL->Event->TCB0 ");
  demo10();
  delay(10000);
  #endif

}
```

```
#include <Event.h>
#include <Logic.h>

void setup() {
  initThirdPWM();
  Serial.begin(115200);
}



void loop() {
  static uint16_t i = 1 ;
  // show all three TCD0 PWM channels
  // If you have a 'scope, you can see that they are also each active for a
different "part" of the cycle!
  if (i < 508) {
    analogWrite(PIN_PA6, i >> 1);
    analogWrite(PIN_PA7, 255 - (i >> 1));
    if (i < 255) {
      PA3DutyCycle(i);
    } else {
      PA3DutyCycle(510 - i);
    }
```

```
  } else {
    i = 1;
  }
  delay(200);
  i++;
}
void initThirdPWM() {

  TCD0.CTRLA &= ~TCD_ENABLE_bm;
  TCD0.CTRLA = (TCD_CLKSEL_OSCHF_gc | TCD_CNTPRES_DIV4_gc | TCD_SYNCPRES_DIV8_gc);
  // switch from /1 sync prescale (for maximum speed synchronization) to /8
  // and from /32 prescale on count to /4 (same overall frequency).
  TCD0.DLYCTRL = 0x3E;
  // Set delay prescale to /8 - giving us 8x8 = 64 prescale. But we only have 1-
255 counts on the delay counter, while in default
  // DxCore/megaTinyCore, TCD0 is usually configured to count to 510, or higher
(to get the target "basic PWM" frequency
  // of not more than 1.5 kHz, and not less than 500 Hz (er, okay, 490), a range
chosen so not preclude
  // PWMing MOSFETs directly, but otherwise be as fast as possible.
  // With the DLYVAL, we can only go down 50% duty cycle....
  // UNLESS we also llower the TOP, which is now supported!
  // and doesn't break analogWrite() on DxCore (it still does on megaTinyCore. I
can't justify it there.
  // however see note below...
  TCD0.CMPBCLR = 254;



  TCD0.DLYVAL = 0x80; //50% duty cycle
  while (!(TCD0.STATUS & 0x01));
  TCD0.CTRLA |= 1;
  //event channel 0
  Event0.set_generator(gen::tcd0_cmpbclr);
  Event0.set_user(user::ccl0_event_a);
  Event0.start();
  Event1.set_generator(gen::tcd0_progev);
  Event1.set_user(user::ccl0_event_b);
  Event1.start();
  Logic0.enable = true;
  Logic0.output = out::enable;
  Logic0.input0 = in::event_a;
  //Logic0.input0 = in::masked;
  Logic0.input1 = in::event_b;
  Logic0.input2 = in::feedback;
  Logic0.truth = (0xB2);
  // low nybble is when input 2 is low. Value 2, 0b0010, means the output pin is
driven low
  // and only switches if input 0 goes high, and then we will output high until,
  //er the high nybble, 0xB, 9b1011: it when input 1 goes high, it turns off again
  // . when input 0 goes high,
  // Hence it's high between TCD0_CMPBCLR and TCD_PROGEV (delayed eventt,
triggered  from CMPBCLR)
  Logic0.init();
```

```
  Logic::start();
}

void PA3DutyCycle(uint8_t duty) {
  // You can handle the half duty issue here, if it is relevant at the chip and
clock speed you are using
  // with the magic of the invert function!
  // if (duty > 0x80) {
  //   PORTA.PIN3CTRL |= PORT_INVEN_bm;
  //
  // }
  // duty = (duty << 1)+ 1;
  TCD0.DLYVAL = duty;
  while (!(TCD0.STATUS & TCD_CMDRDY_bm)); //wait for any sync weirdness, because
TCD is wacky
  //then tell it to sync at end of cycle (better than sync, though i'm not sure
how it interacts here)
  TCD0.CTRLE = TCD_SYNCEOC_bm;
}
```

Result

Errors: 'tcb1' is not a member of 'in','tca0_cnta' is not a member of 'user', Error compiling for board AVR DA-series.

Messages

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Logic\examples\Modulate\Modulate.ino: In function 'void setup()':
Modulate:30:23: error: 'tcb1' is not a member of 'in'
   Logic0.input1 = in::tcb1;   // Use TCB1 WO as input 1
                       ^~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Logic\examples\Modulate\Modulate.ino:30:23: note: suggested
alternative: 'tcb'
   Logic0.input1 = in::tcb1;   // Use TCB1 WO as input 1
                       ^~~~
                       tcb
exit status 1
'tcb1' is not a member of 'in'
```

```
In file included from
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Logic\examples\Oscillate\Oscillate.ino:58:0:
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen0::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:654:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator, 0); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen1::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:657:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator, 1); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
```

```
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
```

```
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen2::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:660:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator, 2); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
```

```
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
```

```
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen3::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:663:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator, 3); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen4::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:666:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator, 4); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
```

```
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen5::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:669:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator, 5); }

^
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
```

```
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
```

```
Event::assign_generator(gen6::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:672:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator, 6); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
```

```
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
```

```
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen7::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:675:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator, 7); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
```

```
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
```

```
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen8::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:678:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator, 8); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
```

```
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
```

```
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen9::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:681:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator, 9); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Logic\examples\Oscillate\Oscillate.ino: In function 'void
demo9a()':
Oscillate:470:25: error: 'tca0_cnta' is not a member of 'user'
   Event1.set_user(user::tca0_cnta);         // Connect Event1 (carrying Logic0
output) to TCA0 event a
                         ^~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Logic\examples\Oscillate\Oscillate.ino:470:25: note: suggested
alternative: 'tca0_cnt'
   Event1.set_user(user::tca0_cnta);         // Connect Event1 (carrying Logic0
output) to TCA0 event a
                         ^~~~~~~~
                         tca0_cnt
exit status 1
'tca0_cnta' is not a member of 'user'
```

```
In file included from
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Logic\examples\TCDThirdPWM\TCDThirdPWM.ino:1:0:
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen0::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:654:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator, 0); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
```

```
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
```

```
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen1::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:657:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator, 1); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
```

```
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
```

```
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen2::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:660:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator, 2); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
```

```
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
```

```
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen3::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:663:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator, 3); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
```

```
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
```

```
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen4::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:666:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator, 4); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
```

```
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen5::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:669:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
```

```
       static Event& assign_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator, 5); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
```

```
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
```

```
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen6::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:672:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator, 6); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
```

```
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
```

```
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen7::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:675:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator, 7); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
```

```
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen8::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:678:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator, 8); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
```

```
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
```

```
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h: In static member function 'static Event&
Event::assign_generator(gen9::generator_t)':
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:681:113: error: no matching function for call
to 'Event::set_generator(gen::generator_t, int)'
       static Event& assign_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator, 9); }

^
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note: candidate: void
Event::set_generator(gen::generator_t)
     void set_generator(gen::generator_t generator);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:614:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note: candidate: void
Event::set_generator(uint8_t)
     void set_generator(uint8_t pin_number);
          ^~~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:615:10: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note: candidate: void
```

```
Event::set_generator(gen0::generator_t)
       void set_generator(gen0::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:618:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note: candidate: void
Event::set_generator(gen1::generator_t)
       void set_generator(gen1::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:621:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note: candidate: void
Event::set_generator(gen2::generator_t)
       void set_generator(gen2::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:624:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note: candidate: void
Event::set_generator(gen3::generator_t)
       void set_generator(gen3::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:627:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note: candidate: void
Event::set_generator(gen4::generator_t)
       void set_generator(gen4::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:630:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note: candidate: void
Event::set_generator(gen5::generator_t)
       void set_generator(gen5::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:633:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note: candidate: void
```

```
Event::set_generator(gen6::generator_t)
       void set_generator(gen6::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:636:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note: candidate: void
Event::set_generator(gen7::generator_t)
       void set_generator(gen7::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:639:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note: candidate: void
Event::set_generator(gen8::generator_t)
       void set_generator(gen8::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:642:12: note:   candidate expects 1 argument, 2
provided
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note: candidate: void
Event::set_generator(gen9::generator_t)
       void set_generator(gen9::generator_t generator) {
set_generator((gen::generator_t)generator); }
            ^~~~~~~~~~~~
C:\Users\ivanFernandez\AppData\Local\Arduino15\packages\Microchip\hardware\megaavr
\1.0.0\libraries\Event\src/Event.h:645:12: note:   candidate expects 1 argument, 2
provided
exit status 1
Error compiling for board AVR DA-series.
```

Notes and Potential Fixes

1. The Sketch does not compile scucessfully. In the Sketch modulate, tcb1 is currently not set up as a member of namespace 'in' within the Logic.h file and in the current core.
   Adding tcb1 within 'in' in Logic.h should fix the error when compiling this sketch.

2. The Skecth Oscillate does not compile successfully. In the Sketch Oscillate, tca0_cnta is not currently set up as a member of the 'user' namespace within Event.h of the current core. The error is thrown from this line within Oscillate : Event1.set_user(user::tca0_cnta);. Perhaps this is a typo because there exists a tca0_cnt_a within user in Event.h.

3. The Sketch TCDThirdPWM does not compile successfully. Compile error messages point to the Event.h file which is included in the Sketch.

There seems to be an incompatibility with the AVR-DA series board and the method calls to void Event::set_generator(). note: candidate expects 1 argument, 2 provided.