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// MultiStepper
// -*- mode: C++ -*-
//
// Control both Stepper motors at the same time with different speeds
// and accelerations.
// Requires the AFMotor library (https://github.com/adafruit/Adafruit-Motor-Shield-library)
// And AccelStepper with AFMotor support (https://github.com/adafruit/AccelStepper)
// Public domain!

#include <AccelStepper.h>
#include <AFMotor.h>

// two stepper motors one on each port
AF_Stepper motor1(100, 1);
AF_Stepper motor2(100, 2);

// you can change these to DOUBLE or INTERLEAVE or MICROSTEP!
// wrappers for the first motor!
void forwardstep1() {
    motor1.onestep(FORWARD, SINGLE);
}
void backwardstep1() {
    motor1.onestep(BACKWARD, SINGLE);
}
// wrappers for the second motor!
void forwardstep2() {
    motor2.onestep(FORWARD, SINGLE);
}
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void backwardstep2() {
  motor2.onestep(BACKWARD, SINGLE);
}

// Motor shield has two motor ports, now we'll wrap them in an AccelStepper object
AccelStepper stepper1(forwardstep1, backwardstep1);
AccelStepper stepper2(forwardstep2, backwardstep2);

void setup()
{
  stepper1.setMaxSpeed(60.0);
  stepper1.setAcceleration(100.0);
  stepper1.moveTo(100);

  stepper2.setMaxSpeed(60.0);
  stepper2.setAcceleration(100.0);
  stepper2.moveTo(100);
}

void loop()
{
  // Change direction at the limits
  if (stepper1.distanceToGo() == 0)
    stepper1.moveTo(-stepper1.currentPosition());
  if (stepper2.distanceToGo() == 0)
    stepper2.moveTo(-stepper1.currentPosition());
  stepper1.run();
}
```

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stepper2.run();
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}
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