```cpp
// motors.cpp: Source file of hardware abstraction for motors and slewing
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//
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#include "../include/motors.hpp"

void motor_t::set(int _power) {
  power = motors::slew::list[port].power = _power * inverted * scale;
}

namespace motors {
  void set(motor_t motor, int power) {
    motor.set(power);
  }

  int get(motor_t motor) {
    return motor.power;
  }

  motor_t init(unsigned char port, int inverted, float slewRate, float scale) {
    motor_t motor;
    motor.port             = port;
    motor.inverted         = inverted;
    motor.slewRate         = slewRate;
    motor.scale            = scale;
    slew::list[motor.port] = motor;
    return motor;
  }

  namespace slew {
    motor_t list[11];
    TaskHandle handle;

    void slew(void* none) {
```

```
    unsigned long int current;
    while (true) {
      current = millis();
      for (size_t i = 1; i <= 10; i++) {
        motorSet(i,
                 (int)(((list[i].power - motorGet(i)) * list[i].slewRate) +
                       ((list[i].power >= motorGet(i))
                            ? (current - list[i].tlast - slewWait)
                            : (-1 * (current - list[i].tlast - slewWait))) +
                       motorGet(i)));
        list[i].tlast = current;
      }
      delay(slewWait);
    }
    free(none);
  }

  void init(void) {
    motor_t default_motor;
    default_motor.inverted = 1;
    default_motor.slewRate = 1;
    default_motor.scale    = 0;
    for (size_t i = 1; i <= 11; i++) {
      list[i]            = default_motor;
      default_motor.port = i;
    }
    handle = taskCreate(&slew, TASK_DEFAULT_STACK_SIZE, NULL,
                        TASK_PRIORITY_DEFAULT + 1);
  }
 } // namespace slew
} // namespace motors
```