```c
/**
 * @file motors.c
 * @brief Implements the Motor type and the motor handler
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 *
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 */

#include "../include/motors.h"

Motor motorCreate(unsigned char port, bool isInverted) {
        Motor m = {
                .port       = clipNum(port,  10, 1),
                .isInverted = isInverted,
                .deadband   =            10,
                .recalc     = NULL,
                ._lastTime  = millis(),
                ._mutex     = mutexCreate(),
        };

        return m;
} /* motorCreate */

void motorUpdate(Motor *m) {
        if (!m) {
                return;
        }

        if (!mutexTake(m->_mutex, 5)) {
                return;
        }

        int power = deadBand(m->power, m->deadband);

        if (m->recalc)
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                power = m->recalc(power);

        if (m->_lastPower != power) {
                motorSet(m->port,
                         m->isInverted ? power : -power);
        }

        m->_lastPower = m->power;
        mutexGive(m->_mutex);

        if (m->child) {
                m->child->power = m->power;
                motorUpdate(m->child);
        }
} /* motorUpdate */

void motorUpdateSlew(Motor *m, float rate) {
        if (!m) {
                return;
        }

        if (!mutexTake(m->_mutex, 0)) {
                return;
        }

        m->power = deadBand(m->power, 10);
        int change = (m->power == m->_power) ? 0 :
                     (int)(rate * (m->_lastTime - micros()) + 0.5);

        if (m->power < m->_power) {
                m->_power += change;

                if (m->_power > m->power) {
                        m->_power = m->power;
                }
        } else if (m->power > m->_power) {
                m->_power -= change;

                if (m->_power < m->power) {
                        m->_power = m->power;
                }
        }

        if (m->_lastPower != m->_power) {
                motorSet(m->port,
                         m->isInverted ? m->_power : -m->_power);
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        }

        m->_lastPower = m->_power;
        mutexGive(m->_mutex);

        if (m->child) {
                m->child->power = m->power;
                motorUpdateSlew(m->child, rate);
        }
} /* motorUpdateSlew */
```