

PID

Macros

#define **DEFAULT_TEMP** (75)
Default desired temperature of black box.

Functions

void **taskPID** ()

Detailed Description

PID.c - PID controller module.

Function Documentation

void **taskPID** ()

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This task compares the temperature value in *temp_queue*, or the measured temperature inside the black box, and compares it to the desired black box temperature. Using the difference between measured and desired temp, a new ratio of heater on/off time is created. This ratio is stored in PWM_ratio for use by the power driver module to control the heater and adjust black box temp as needed. The desired temp will default to **DEFAULT_TEMP** unless the user has specified a desired temp.

Returns

None.