Kernel driver lp855x

Backlight driver for LP855x ICs

Supported chips:

Texas Instruments LP8550, LP8551, LP8552, LP8553, LP8555, LP8556 and LP8557

Author: Milo(Woogyom) Kim < milo.kim@ti.com>

Description

· Brightness control

Brightness can be controlled by the pwm input or the i2c command. The lp855x driver supports both cases.

- Device attributes
 - 1. bl ctl mode

Backlight control mode.

Value: pwm based or register based

2. chip id

The lp855x chip id.

Value: lp8550/lp8551/lp8552/lp8553/lp8555/lp8556/lp8557

Platform data for lp855x

For supporting platform specific data, the lp855x platform data can be used.

• name:

Backlight driver name. If it is not defined, default name is set.

• device control:

Value of DEVICE CONTROL register.

• initial brightness:

Initial value of backlight brightness.

period_ns:

Platform specific PWM period value. unit is nano. Only valid when brightness is pwm input mode.

• size program:

Total size of lp855x rom data.

rom_data:

List of new eeprom/eprom registers.

Examples

1. lp8552 platform data: i2c register mode with new eeprom data:

2. lp8556 platform data: pwm input mode with default rom data:

```
static struct lp855x_platform_data lp8556_pdata = {
.device_control = PWM_CONFIG(LP8556),
.initial_brightness = INITIAL_BRT,
.period_ns = 1000000,
```