

# eMMC Setting SOP

# Overview

- 1.GPIO setting

- Tools
- Setup

# GPIO related Tools & Files

- 1. DCT tool – DrvGen.exe

-- \alps\vendor\mediatek\proprietary\scripts\dct\DrvGen.exe

- 2. DWS file – codegen.dws

- alps\kernel-4.4\drivers\misc\mediatek\dws\mt6771\{Project}.dws

- --

alps\vendor\mediatek\proprietary\bootable\bootloader\preloader\custom\\${Project\_name}\dct\dct\codegen.dws

- --

alps\vendor\mediatek\proprietary\bootable\bootloader\lk\target\\${Project\_name}\dct\dct\codegen.dws

- 保证这三份dws中关于eMMC gpio的setting一致

# GPIO setup

- Find out eMMC relative pin assignment in GPIO mapping table

与eMMC有关的有：

- MSDC0\_CLK
- MSDC0\_CMD
- MSDC0\_DAT0 ~ MSDC0\_DAT7
- MSDC0\_RST
- MSDC\_DSL

# GPIO setup

Pro Edit Gen Tools Help													
Projects													
ADC ClockBuffer EINT GPIO I2C KEYPAD MD1_EINT PMIC POWER													
ID	EintMode	Def.Mode	InPull En	InPull SelHigh	Def.Dir	OutHigh	VarName1	VarName2	VarName3	SMT#	SMT	IES	
114	GPIO114	3:SDA6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_I2C6_SDA_PIN			46	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
115	GPIO115	2:UTXD1	<input type="checkbox"/>	<input type="checkbox"/>	OUT	<input type="checkbox"/>	GPIO_UART_UTXD1_PIN			47	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
116	GPIO116	0:GPIO116	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IN	<input type="checkbox"/>				48	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
117	GPIO117	0:GPIO117	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IN	<input type="checkbox"/>				49	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
118	GPIO118	0:GPIO118	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IN	<input type="checkbox"/>				50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
119	GPIO119	0:GPIO119	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IN	<input type="checkbox"/>				51	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
120	GPIO120	0:GPIO120	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IN	<input type="checkbox"/>				52	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
121	GPIO121	2:URXD1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_UART_URXD1_PIN			53	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
122	GPIO122	1:MSDC0_C...	<input type="checkbox"/>	<input type="checkbox"/>	OUT	<input checked="" type="checkbox"/>	GPIO_MSDC0_CMD			54	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
123	GPIO123	1:MSDC0_D...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_MSDC0_DAT0			55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
124	GPIO124	1:MSDC0_CLK	<input type="checkbox"/>	<input type="checkbox"/>	OUT	<input type="checkbox"/>	GPIO_MSDC0_CLK			56	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
125	GPIO125	1:MSDC0_D...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_MSDC0_DAT2			55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
126	GPIO126	1:MSDC0_D...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_MSDC0_DAT4			55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
127	GPIO127	1:MSDC0_D...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_MSDC0_DAT6			55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
128	GPIO128	1:MSDC0_D...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_MSDC0_DAT1			55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
129	GPIO129	1:MSDC0_D...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_MSDC0_DAT5			55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
130	GPIO130	1:MSDC0_D...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_MSDC0_DAT7			55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
131	GPIO131	1:MSDC0_DSL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OUT	<input type="checkbox"/>	GPIO_MSDC0_DSL			57	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
132	GPIO132	1:MSDC0_D...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IN	<input type="checkbox"/>	GPIO_MSDC0_DAT3			55	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
133	GPIO133	1:MSDC0_R...	<input type="checkbox"/>	<input type="checkbox"/>	OUT	<input checked="" type="checkbox"/>	GPIO_MSDC0_RSTB			58	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
134	GPIO134	1:RTC32K_CK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IN	<input type="checkbox"/>				59	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
135	GPIO135	1:WATCHDOG	<input type="checkbox"/>	<input type="checkbox"/>	OUT	<input type="checkbox"/>				60	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

# GPIO setting

- GPIO driving setting
- alps/kernel-4.4/arch/arm64/boot/dtd/mediatek/cust\_mt6771\_msdc.dtsi

```
68 &pio {  
69     msdc0_pins_default: msdc0@default {  
70         pins_cmd {  
71             drive-strength = /bits/ 8 <4>;  
72         };  
73         pins_dat {  
74             drive-strength = /bits/ 8 <4>;  
75         };  
76         pins_clk {  
77             drive-strength = /bits/ 8 <4>;  
78         };  
79         pins_rst {  
80             drive-strength = /bits/ 8 <4>;  
81         };  
82         pins_ds {  
83             drive-strength = /bits/ 8 <4>;  
84         };  
85     };  
};
```