珠海市杰理科技有限公司
ZHUHAI JIELI TECHNOLOGY CO.,LTD

ISD_CONFIG.INI Configuration file description

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component

[EXTRA_CFG_PARAM] 用于配置生成flash.bin前所需要的信息。
[SYS_CFG_PARAM] 用于配置系统所需要的参数，该配置的所有选项都会进过转后然后存入flash.bin中。
[RESERVED_CONFIG] 用于配置预留区域信息的区域，如果[EXTRA_CFG_PARAM]区域有设置RESERVED_OPT配置项，则当前区域最多只能配置6个。
[RESERVED_EXPAND_CONFIG] 用于配置预留区域信息的区域，与[RESERVED_CONFIG]，该区域是为了预防[RESERVED_CONFIG]区域不够而添加的。
[BURNER_CONFIG] 用于配置烧写区域大小信息。

1. Options

The default value refers to the value when the option is not present.

A valid value means that the corresponding configuration value receives the specified value.

[EXTRA_CFG_PARAM] area options

选项	类型	默认值	有效值	说明
NEED_RESERVED_4K	布尔	YES	YES/NO	是否保留FLASH最后的4K用于保存额外信息
NEW_FLASH_FS	布尔		YES/NO	是否使用新的文件系统（BR22），该配置与双备份配置互斥
BR22_TWS_DB	布尔		YES/NO	是否使用BR22双备份flash结构，该配置与单备份配置互斥（需要配合FLASH_SIZE、BR22_TWS_VERSION一起使用）
BR22_TWS_VERSION	立即数			双备份的版本号（一般配合BR22_TWS_DB一起使用）
FLASH_SIZE	立即数			指定当前FLASH的大小（一般配合BR22_TWS_DB一起使用）

选项	类型	默认值	有效值	说明
CHIP_NAME	字符串			芯片名称
ENTRY	立即数			SDK的入口地址（该地址必须与sdk_ld.c文件中程序入口地址匹配）
RESERVED_OPT	立即数		0	预留区域是否需要提前预留
PID	字符串			芯片的pid(少于等于16个byte的字符串)
VID	字符串			芯片的vid(少于等于4个byte的字符串)
DOWNLOAD_MODEL	字符串		USB/SERIAL	下载模式，可选择USB下载或者串口下载（默认使用USB下载）

[SYS_CFG_PARAM] locale options

ÿThe configuration of this area is a custom configuration, and the corresponding configuration will be converted and stored in flash.bin for the firmware to use.

ÿCurrent configuration:

配置	说明
SPI=2_3_0_0	配置spi参数，等号右边的参数含义是 data_clk_mode_port
OSC=btosc	UBOOT使用的参数，指定系统始终源,一般注释掉
OSC_FREQ=12MHz	UBOOT使用的参数，指定FREQ频率，可填写12MHz或24MHz，一般注释掉
SYS_CLK=24MHz	UBOOT使用的参数，指定CLK频率，可填写24MHz或48MHz，一般注释掉
UTTX=PA05	UBOOT串口tx
UTBD=1000000	UBOOT串口波特率
UTRX=PB01	串口升级，可填写PB00、PB05、PA05，一般注释掉
RESET=PB01_08_0	指定重启按键引脚和重启参数，等号右边的含义是 port口*长按时间*有效电平（长按时间有00、01、02、04、08、16六个值可选，单位为秒，当长按时间为00时，则关闭长按复位功能。）
EX_FLASH=PB07_2A_PB11	用于isd_download.exe工具烧写外部flash时指定外部升级参数，格式：CS_pin/spi 1/2 /port(A/B) /power_io，需要配合packres.exe工具使用
psram=1	
VLVD=5	VDDIO_LVD挡位，0: 1.8V 1: 1.9V 2: 2.0V 3: 2.1V 4: 2.2V 5: 2.3V 6: 2.4V 7: 2.5V

[RESERVED_CONFIG] Regional Options

ÿ This area is used to configure the reserved area and can exist independently. The two areas of VM and PRCT are special areas, and VM is used to represent VM.
Related information, PRCT is the information used to represent the protected area.

ÿIf there is RESERVED_OPT configuration in the [EXTRA_CFG_PARAM] area, the current area cannot be configured with more than 6 items.

ÿ The three configurations of VM, PROC and BIIF must be in the reserved configuration area ([RESERVED_CONFIG] or [RESERVED_EXPAND_CONFIG]
There is a corresponding configuration in one of the areas), otherwise an error will be reported.

ÿExcept for the two special areas of VM and PRCT, the order allocation of other reserved configuration areas is the same as that in the isd_config.ini file.
consistent order.

ÿEach configuration item follows the following fixed format:

配置	配置说明	值说明
XXXX_ADR	区域起始地址，XXXX为预留区域名字	AUTO：由工具自动分配起始地址(PROC与VM配置不支持) 如果填写立即数即代表绝对地址 VM配置如果填写0则代表自动分配
XXXX_LEN	区域长度，XXXX为预留区域名字	CODE_LEN：代码长度(只针对PROC配置) 如果填写立即数即代表指定长度
XXXX_OPT	区域操作属性，XXXX为预留区域名字	0: 下载代码时擦除指定区域 1: 下载代码时不操作指定区域 2: 下载代码时给指定区域加上保护
XXXX_FILE(可选)	下代码时指定的文件会下载到对应的区域，XXXX为预留区域名字	1、指定的文件名(该文件必须要与isd_download.exe同在一个目录) 2、如果需要找到该区域，则需要根据XXXX(该预留区域名字)来的定位到对应的预留区域头，根据头中的地址信息获取到数据对应的位置

[RESERVED_EXPAND_CONFIG] region options (optional)

ÿThis area is the extension of the [RESERVED_CONFIG] area, and is also used to configure reserved configuration information. The format also follows
Rules for configuration items in [RESERVED_CONFIG].

ÿThere is no limit on the number of this area. If only [RESERVED_EXPAND_CONFIG] is configured, the area is not configured with [RESERVED_CONFIG]
area, then the configuration of RESERVED_OPT in the [EXTRA_CFG_PARAM] area is invalid.

ÿThis area can exist at the same time as the [RESERVED_CONFIG] area, in this case the [EXTRA_CFG_PARAM] area
The configuration of RESERVED_OPT will still take effect.

[BURNER_CONFIG] Regional Options

ÿThis area is used to configure the size information of the programming area.

配置	说明
SIZE=32	指定需要预留32byte的空间给烧写器使用

ÿ Display of configuration information

After the batch process runs, the corresponding command line window will pop up, and various information will be printed out in this window for reference.

The information of the reserved area can be obtained from the two suffixes "_RESERVED_START" and "_RESERVED_END" to know the allocation of the corresponding reserved area

Set the start address and end address after the information is allocated. The figure takes BIIF as an example, and the corresponding information is "BTIF_RESERVED_START"

with "BTIF_RESERVED_END".

2. Examples

```
############################################################
#
# The configuration data is stored in the form of length + configuration name + data
#
############################################################
 [EXTRA_CFG_PARAM]
#BR22_TWS_DB=YES;
#FLASH_SIZE=1M;
#BR22_TWS_VERSION=0;
NEW_FLASH_FS=YES;
CHIP_NAME=AC897N;//8
```

```
ENTRY=0x1E00120;//Program entry address

PID=AC897N;//Length 16byte, example: chip package_application direction_scheme name

VID = 0.01;

RESERVED_OPT=0;

#DOWNLOAD_MODEL=SERIAL;//usb

DOWNLOAD_MODEL=usb;//

SERIAL_DEVICE_NAME=JlVirtualJtagSerial;

SERIAL_BARD_RATE=1000000;

SERIAL_CMD_OPT=11;

SERIAL_CMD_RATE=100; [n*10000]

SERIAL_CMD_RES=0;

SERIAL_INIT_BAUD_RATE=9600;

LOADER_BAUD_RATE=1000000;

LOADER_ASK_BAUD_RATE=1000000;

BEFORE_LOADER_WAIT_TIME=100;

SERIAL_SEND_KEY=yes;

########################################################## ### UBOOT configuration items, please do not arbitrarily adjust

FULL ORDER ################################################## ##

 [SYS_CFG_PARAM]

#data_width[0 1 2 3 4] When 3, uboot automatically recognizes 2 or 4 lines

#clk [0-255]

#mode:

# 0 RD_OUTPUT, 1 cmd 1 addr

# 1 RD_I/O, 1 cmd x addr

# 2 RD_I/O_CONTINUE] no_send_cmd x add

#port:

# 0 Preferred port A CS:PD3 CLK:PD0 D0:PD1 D1:PD2 D2:PB7 D3:PD5

# 1 Priority B port CS:PA13 CLK:PD0 D0:PD1 D1:PA14 D2:PA15 D3:PD5

SPI=2_3_0_0; #data_clk_mode_port;

#OSC=btosc;

#OSC_FREQ=12MHz; #[24MHz 12MHz]

#SYS_CLK=24MHz; #[48MHz 24MHz]
```

```
UTTX=PA05;//uboot serial port tx

UTBD=1000000;//uboot serial port baud rate

#UTRX=PB01; Serial port upgrade [PB00 PB05 PA05]

RESET=PB01_08_0; //port_long press time_effective level (long press time has six values of 00, 01, 02, 04, 08, 16

Optional, the unit is seconds. When the long press time is 00, the long press reset function is disabled. )

#EX_FLASH=PB07_2A_PB11; // CS_pin/spi 1/2 /port(A/B) /power_io(PB11)

#0:disable

#1: PA9 PA10

#2:USB

#3:PB1 PB2

#4: PB6 PB7

#sdtap=2;

psram=1;

VLVD=5;//VDDIO_LVD gear, 0: 1.8V 1: 1.9V 2: 2.0V 3: 2.1V 4: 2.2V 5:

2.3V 6: 2.4V 7: 2.5V

################################################################################

################################################## ##########################flash space usage configuration area

##################################################

#PDCTNAME: Product name, corresponding to this code, used to identify the product, you can choose to match the product name when upgrading

#BOOT_FIRST: 1=After the code is updated, it is prompted that the APP is started for the first time; 0=After the code is updated, it is not prompted

#UPVR_CTL: 0: Do not allow higher versions to upgrade lower versions 1: Allow higher versions to upgrade lower versions

#XXXX_ADR: Area start address AUTO: The start address is automatically assigned by the tool

#XXXX_LEN: area length CODE_LEN: code length

#XXXX_OPT: Area Operation Properties

#XXXX_FILE: Optional configuration, fill in the file name that needs to be written to the corresponding area

#

#

#

#Operator description OPT:

# 0: Erase specified area when downloading code

# 1: Do not operate the specified area when downloading the code

# 2: Protect the specified area when downloading the code
```

```
################################################################################
 [RESERVED_CONFIG]
BTIF_ADR=AUTO;
BTIF_LEN=0x1000;
BTIF_OPT=1;
PRCT_ADR=0;
PRCT_LEN=CODE_LEN;
PRCT_OPT=2;
VM_ADR=0;
VM_LEN=4K;
VM_OPT=1;
 [RESERVED_EXPAND_CONFIG]
#WTIF_FILE=test.txt; // Specify the file name to write to flash
#WTIF_ADR=BEGIN_END;
#WTIF_LEN=0x1000;
#WTIF_OPT=1;
 [BURNER_CONFIG]
SIZE=32;
```