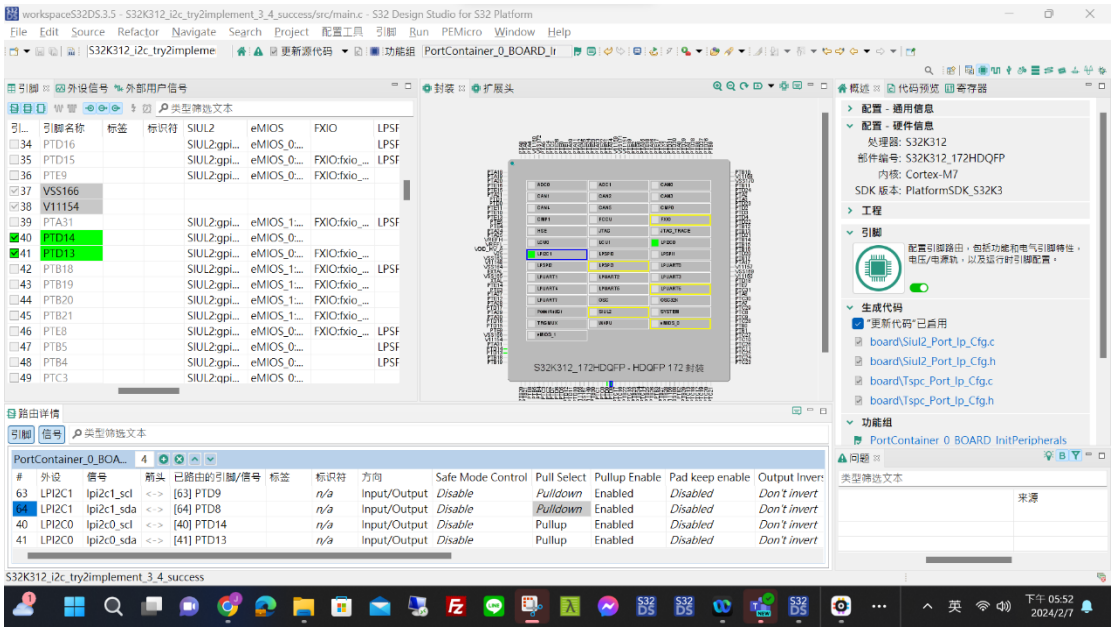
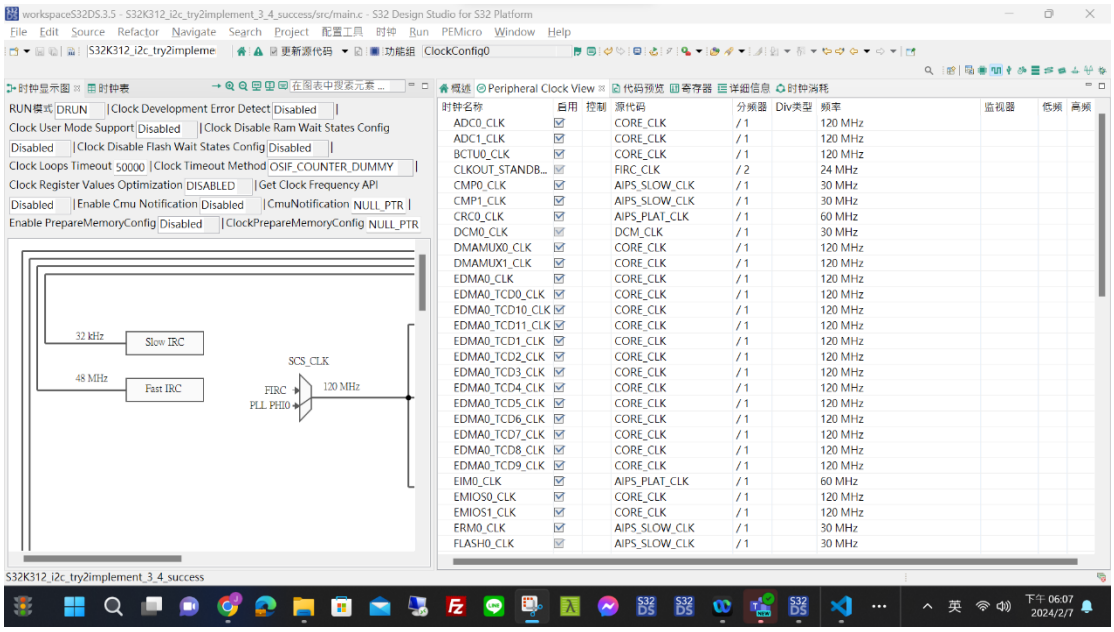
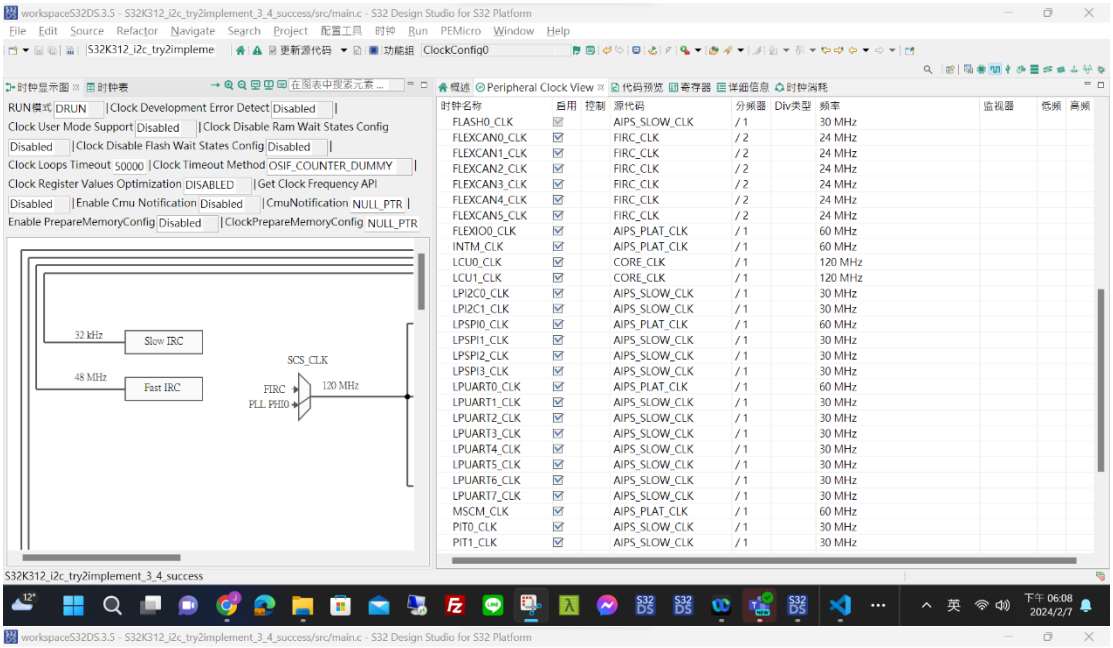
Pin Setting



Driver Setting

Clock_Ip_ReferencePoints




workspaceS32DS.3.5 - S32K312_i2c_try2implement_3_4_success/src/main.c - S32 Design Studio for S32 Platform
File Edit Source Refactor Navigate Search Project 配置工具 时钟 Run PEMicro Window Help
S32K312_i2c_try2impleme
更新源代码
功能组
ClockConfig0
时钟显示图
时钟表
在图表中搜索元素 ...
RUN模式 DRUN | Clock Development Error Detect Disabled |
Clock User Mode Support Disabled | Clock Disable Ram Wait States Config
Disabled | Clock Disable Flash Wait States Config Disabled |
Clock Loops Timeout 50000 | Clock Timeout Method OSIF_COUNTER_DUMMY |
Clock Register Values Optimization DISABLED | Get Clock Frequency API
Disabled | Enable Cmu Notification Disabled | CmuNotification NULL_PTR |
Enable PrepareMemoryConfig Disabled | ClockPrepareMemoryConfig NULL_PTR
32 kHz
Slow IRC
48 MHz
Fast IRC
SCS_CLK
FIRC
PLL_PHI0
120 MHz
概述
Peripheral Clock View
代码预览
寄存器
详细信息
时钟消耗
时钟名称 启用 控制 源代码 分频器 Div类型 频率 监视器 低频 高频
FLASH0_CLK AIPS_SLOW_CLK / 1 30 MHz
FLEXCAN0_CLK FIRC_CLK / 2 24 MHz
FLEXCAN1_CLK FIRC_CLK / 2 24 MHz
FLEXCAN2_CLK FIRC_CLK / 2 24 MHz
FLEXCAN3_CLK FIRC_CLK / 2 24 MHz
FLEXCAN4_CLK FIRC_CLK / 2 24 MHz
FLEXCAN5_CLK FIRC_CLK / 2 24 MHz
FLEXIO0_CLK AIPS_PLAT_CLK / 1 60 MHz
INTM_CLK AIPS_PLAT_CLK / 1 60 MHz
LCU0_CLK CORE_CLK / 1 120 MHz
LCU1_CLK CORE_CLK / 1 120 MHz
LPI2C0_CLK AIPS_SLOW_CLK / 1 30 MHz
LPI2C1_CLK AIPS_SLOW_CLK / 1 30 MHz
LPSPI0_CLK AIPS_PLAT_CLK / 1 60 MHz
LPSPI1_CLK AIPS_SLOW_CLK / 1 30 MHz
LPSPI2_CLK AIPS_SLOW_CLK / 1 30 MHz
LPSPI3_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART0_CLK AIPS_PLAT_CLK / 1 60 MHz
LPUART1_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART2_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART3_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART4_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART5_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART6_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART7_CLK AIPS_SLOW_CLK / 1 30 MHz
MSCM_CLK AIPS_PLAT_CLK / 1 60 MHz
PIT0_CLK AIPS_SLOW_CLK / 1 30 MHz
PIT1_CLK AIPS_SLOW_CLK / 1 30 MHz
S32K312_i2c_try2implement_3_4_success
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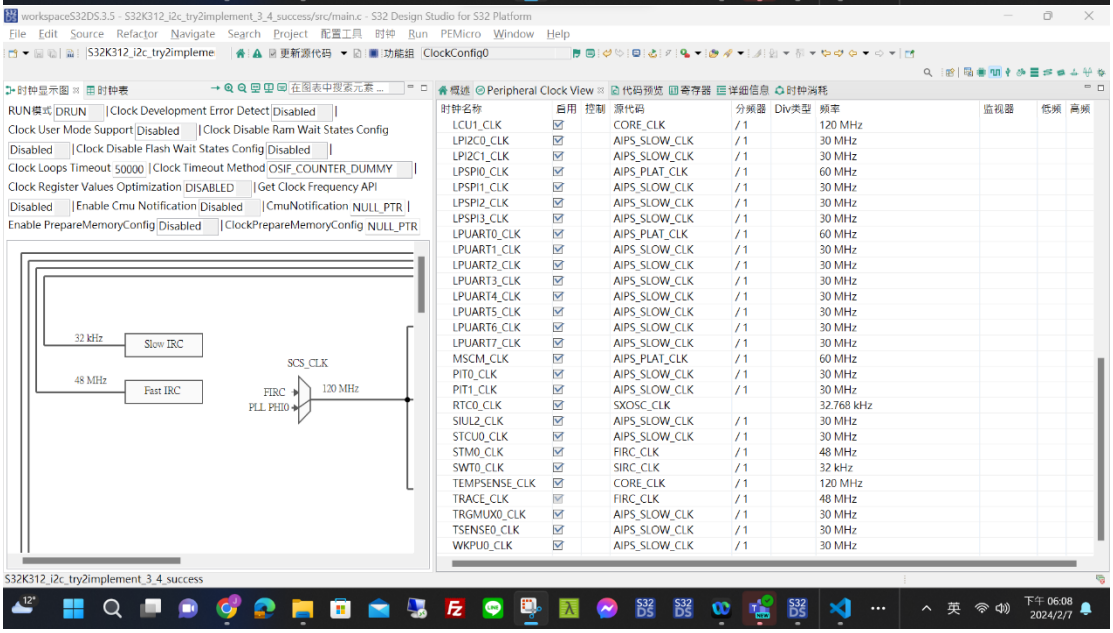
workspaceS32DS.3.5 - S32K312_i2c_try2implement_3_4_success/src/main.c - S32 Design Studio for S32 Platform
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Enable PrepareMemoryConfig Disabled | ClockPrepareMemoryConfig NULL_PTR
32 kHz
Slow IRC
48 MHz
Fast IRC
SCS_CLK
FIRC
PLL_PHI0
120 MHz
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时钟名称 启用 控制 源代码 分频器 Div类型 频率 监视器 低频 高频
LCU1_CLK CORE_CLK / 1 120 MHz
LPI2C0_CLK AIPS_SLOW_CLK / 1 30 MHz
LPI2C1_CLK AIPS_SLOW_CLK / 1 30 MHz
LPSPI0_CLK AIPS_PLAT_CLK / 1 60 MHz
LPSPI1_CLK AIPS_SLOW_CLK / 1 30 MHz
LPSPI2_CLK AIPS_SLOW_CLK / 1 30 MHz
LPSPI3_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART0_CLK AIPS_PLAT_CLK / 1 60 MHz
LPUART1_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART2_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART3_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART4_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART5_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART6_CLK AIPS_SLOW_CLK / 1 30 MHz
LPUART7_CLK AIPS_SLOW_CLK / 1 30 MHz
MSCM_CLK AIPS_PLAT_CLK / 1 60 MHz
PIT0_CLK AIPS_SLOW_CLK / 1 30 MHz
PIT1_CLK AIPS_SLOW_CLK / 1 30 MHz
RTC0_CLK SXOSC_CLK 32.768 kHz
SIUL2_CLK AIPS_SLOW_CLK / 1 30 MHz
STCU0_CLK AIPS_SLOW_CLK / 1 30 MHz
STM0_CLK FIRC_CLK / 1 48 MHz
SWT0_CLK SIRC_CLK / 1 32 kHz
TEMPSENSE_CLK CORE_CLK / 1 120 MHz
TRACE_CLK FIRC_CLK / 1 48 MHz
TRGMUX0_CLK AIPS_SLOW_CLK / 1 30 MHz
TSENSE0_CLK AIPS_SLOW_CLK / 1 30 MHz
WKPU0_CLK AIPS_SLOW_CLK / 1 30 MHz
S32K312_i2c_try2implement_3_4_success
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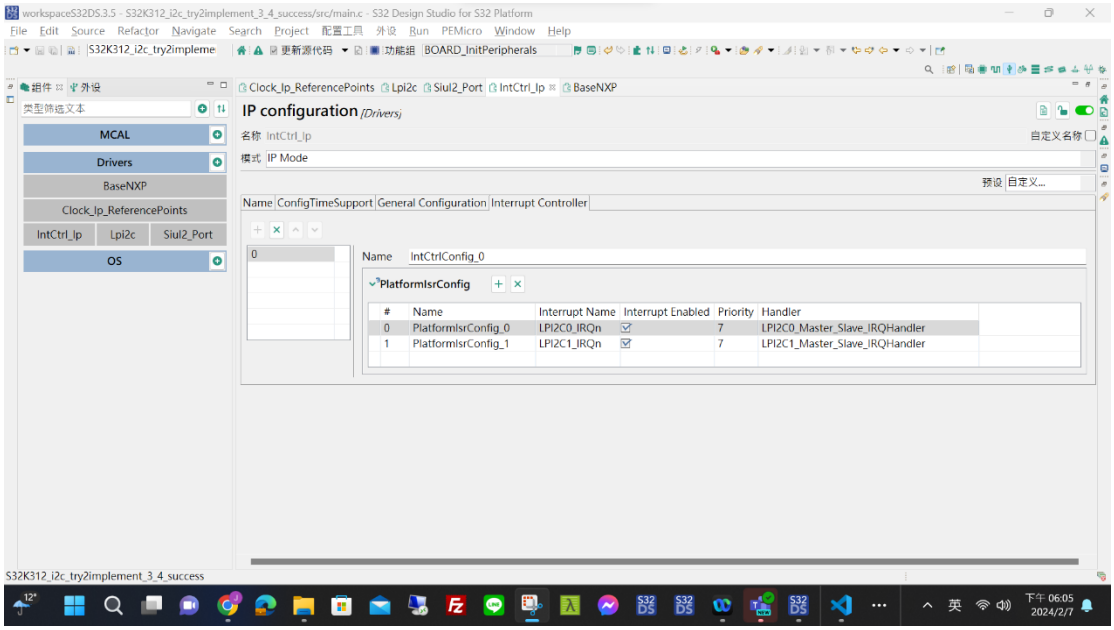
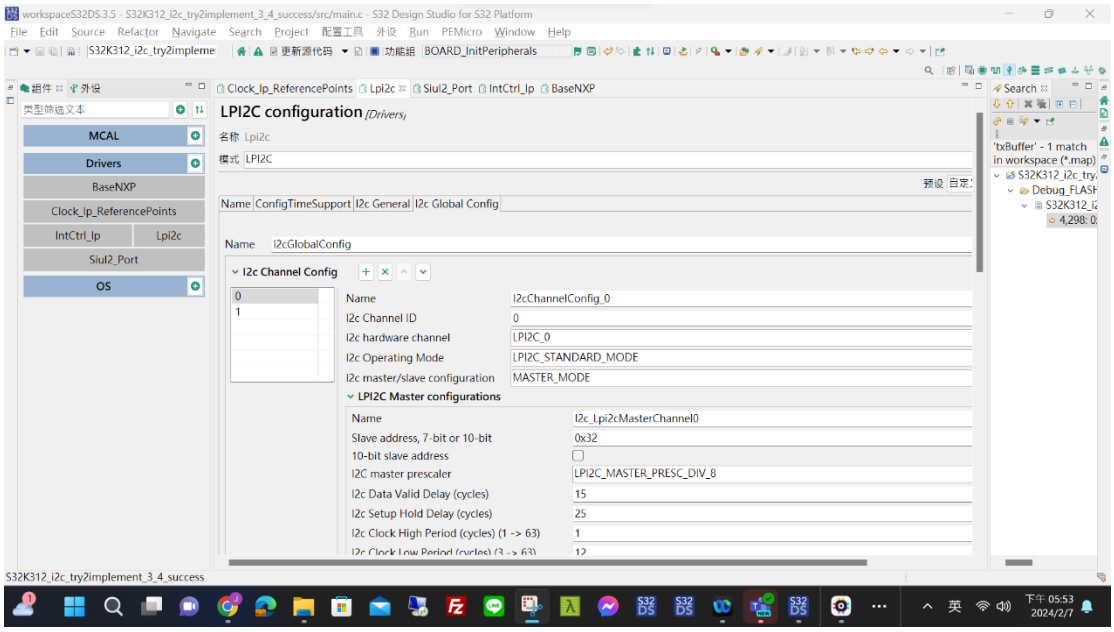
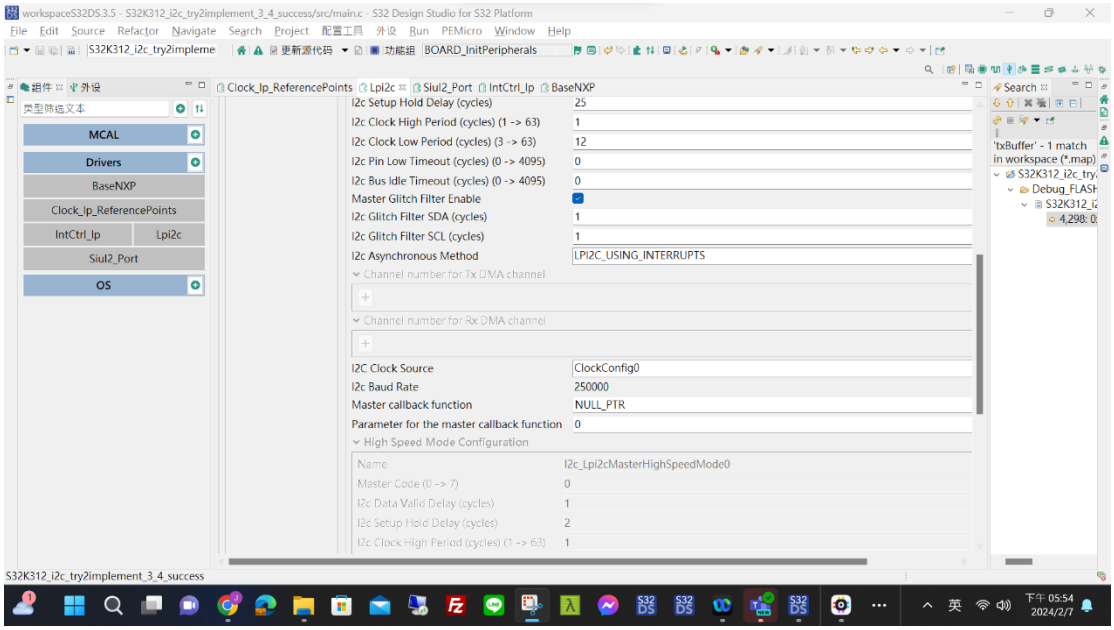
IntCtrl_lp


IP configuration (Drivers)
MCAL
Drivers
BaseNXP
Clock_Ip_ReferencePoints
IntCtrl_Ip
Lpi2c
Siul2_Port
OS
PlatformIsrConfig
Name Interrupt Name Interrupt Enabled Priority Handler
0 PlatformIsrConfig_0 LPI2C0_IRQn 7 LPI2C0_Master_Slave_IRQHandler
1 PlatformIsrConfig_1 LPI2C1_IRQn 7 LPI2C1_Master_Slave_IRQHandler

Lpi2c


LPI2C configuration (Drivers)
I2c Channel Config
Name I2cChannelConfig_0
I2c Channel ID 0
I2c hardware channel LPI2C_0
I2c Operating Mode LPI2C_STANDARD_MODE
I2c master/slave configuration MASTER_MODE
LPI2C Master configurations
Slave address, 7-bit or 10-bit 0x32
I2C master prescaler LPI2C_MASTER_PRESC_DIV_8
I2c Data Valid Delay (cycles) 15
I2c Setup Hold Delay (cycles) 25
I2c Clock High Period (cycles) (1 -> 63) 1


workspaceS32DS.3.5 - S32K312_i2c_try2implement_3_4_success/src/main.c - S32 Design Studio for S32 Platform
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MCAL
Drivers
BaseNXP
Clock_Ip_ReferencePoints
IntCtrl_Ip
Lpi2c
Siul2_Port
OS
I2c Setup Hold Delay (cycles) 25
I2c Clock High Period (cycles) (1 -> 63) 1
I2c Clock Low Period (cycles) (3 -> 63) 12
I2c Pin Low Timeout (cycles) (0 -> 4095) 0
I2c Bus Idle Timeout (cycles) (0 -> 4095) 0
Master Glitch Filter Enable
I2c Glitch Filter SDA (cycles) 1
I2c Glitch Filter SCL (cycles) 1
I2c Asynchronous Method LPI2C_USING_INTERRUPTS
Channel number for Tx DMA channel
Channel number for Rx DMA channel
I2C Clock Source ClockConfig0
I2c Baud Rate 250000
Master callback function NULL_PTR
Parameter for the master callback function 0
High Speed Mode Configuration
Name I2c_Lpi2cMasterHighSpeedMode0
Master Code (0 -> 7) 0
I2c Data Valid Delay (cycles) 1
I2c Setup Hold Delay (cycles) 2
I2c Clock High Period (cycles) (1 -> 63) 1
'txBuffer' - 1 match in workspace (*.map)
S32K312_i2c_try2implement_3_4_success
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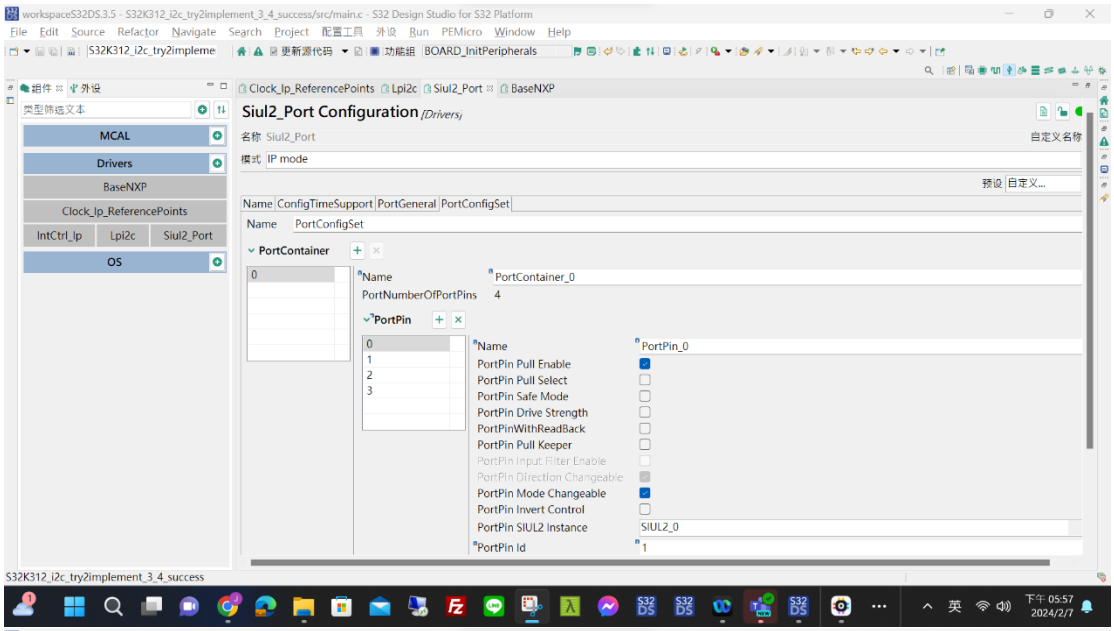
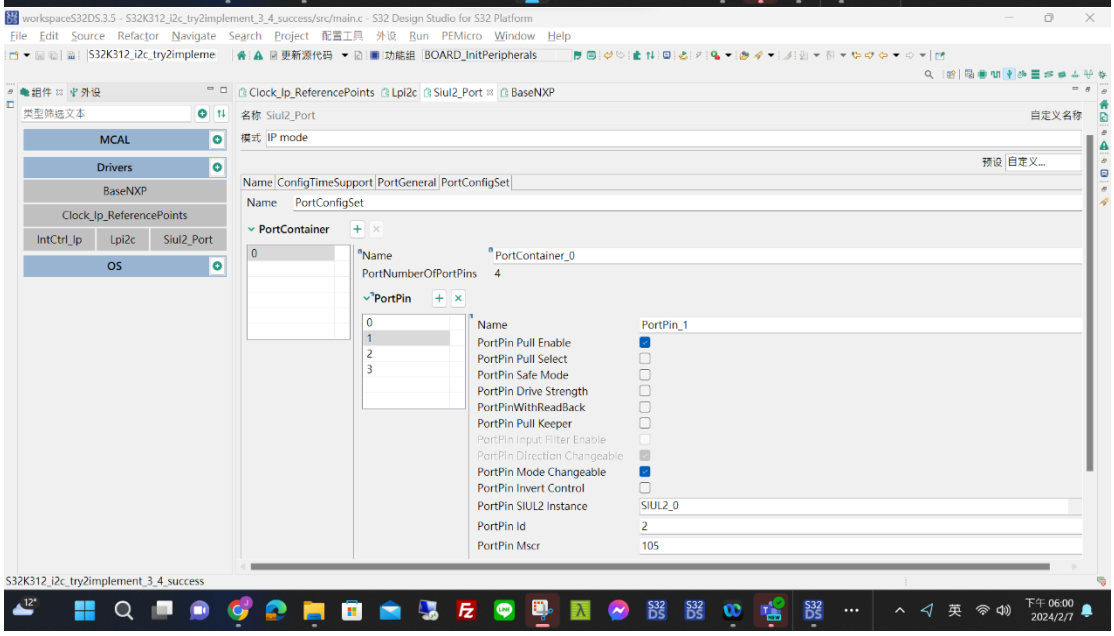
Siul2_Port


workspaceS32DS.3.5 - S32K312_i2c_try2implement_3_4_success/src/main.c - S32 Design Studio for S32 Platform
File Edit Source Refactor Navigate Search Project 配置工具 外设 Run PEMicro Window Help
Clock_Ip_ReferencePoints Lpi2c Siul2_Port BaseNXP
Siul2_Port Configuration (Drivers)
名称 Siul2_Port
自定义名称
模式 IP mode
预设 自定义...
Name ConfigTimeSupport PortGeneral PortConfigSet
Name PortConfigSet
PortContainer
Name PortContainer_0
PortNumberOfPortPins 4
PortPin
Name PortPin_0
PortPin Pull Enable
PortPin Pull Select
PortPin Safe Mode
PortPin Drive Strength
PortPinWithReadBack
PortPin Pull Keeper
PortPin Input Filter Enable
PortPin Direction Changeable
PortPin Mode Changeable
PortPin Invert Control
PortPin SIUL2 Instance SIUL2_0
PortPin Id 1
MCAL
Drivers
BaseNXP
Clock_Ip_ReferencePoints
IntCtrl_Ip Lpi2c Siul2_Port
OS
S32K312_i2c_try2implement_3_4_success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Clock_Ip_ReferencePoints Lpi2c Siul2_Port BaseNXP
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自定义名称
模式 IP mode
预设 自定义...
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Name PortConfigSet
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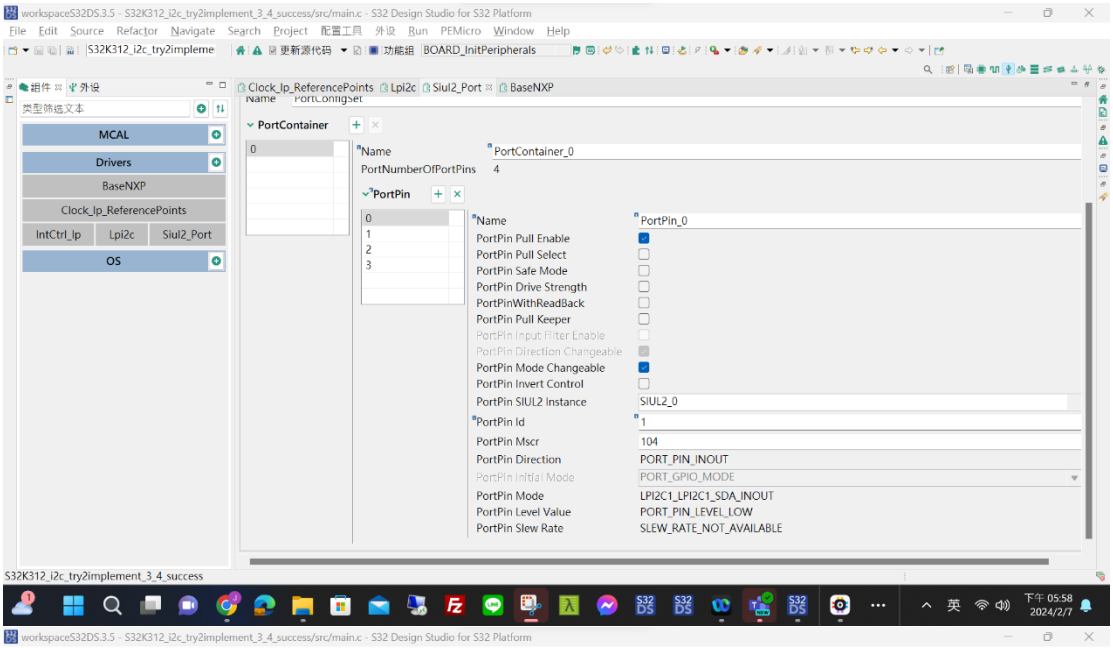
PortPin Pull Select
PortPin Safe Mode
PortPin Drive Strength
PortPinWithReadBack
PortPin Pull Keeper
PortPin Input Filter Enable
PortPin Direction Changeable
PortPin Mode Changeable
PortPin Invert Control
PortPin SIUL2 Instance SIUL2_0
PortPin Id 2
PortPin Mscr 105
MCAL
Drivers
BaseNXP
Clock_Ip_ReferencePoints
IntCtrl_Ip Lpi2c Siul2_Port
OS
S32K312_i2c_try2implement_3_4_success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S32K312_i2c_try2impleme
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BOARD_InitPeripherals
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外设
类型筛选文本
MCAL
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Clock_Ip_ReferencePoints
IntCtrl_Ip
Lpi2c
Siul2_Port
OS
Clock_Ip_ReferencePoints
Lpi2c
Siul2_Port
BaseNXP
Name
PortConfigSet
PortContainer
0
Name
PortContainer_0
PortNumberOfPortPins
4
PortPin
0
1
2
3
Name
PortPin_0
PortPin Pull Enable
PortPin Pull Select
PortPin Safe Mode
PortPin Drive Strength
PortPinWithReadBack
PortPin Pull Keeper
PortPin Input Filter Enable
PortPin Direction Changeable
PortPin Mode Changeable
PortPin Invert Control
PortPin SIUL2 Instance
SIUL2_0
PortPin Id
1
PortPin Mscr
104
PortPin Direction
PORT_PIN_INOUT
PortPin Initial Mode
PORT_GPIO_MODE
PortPin Mode
LPI2C1_LPI2C1_SDA_INOUT
PortPin Level Value
PORT_PIN_LEVEL_LOW
PortPin Slew Rate
SLEW_RATE_NOT_AVAILABLE
S32K312_i2c_try2implement_3_4_success
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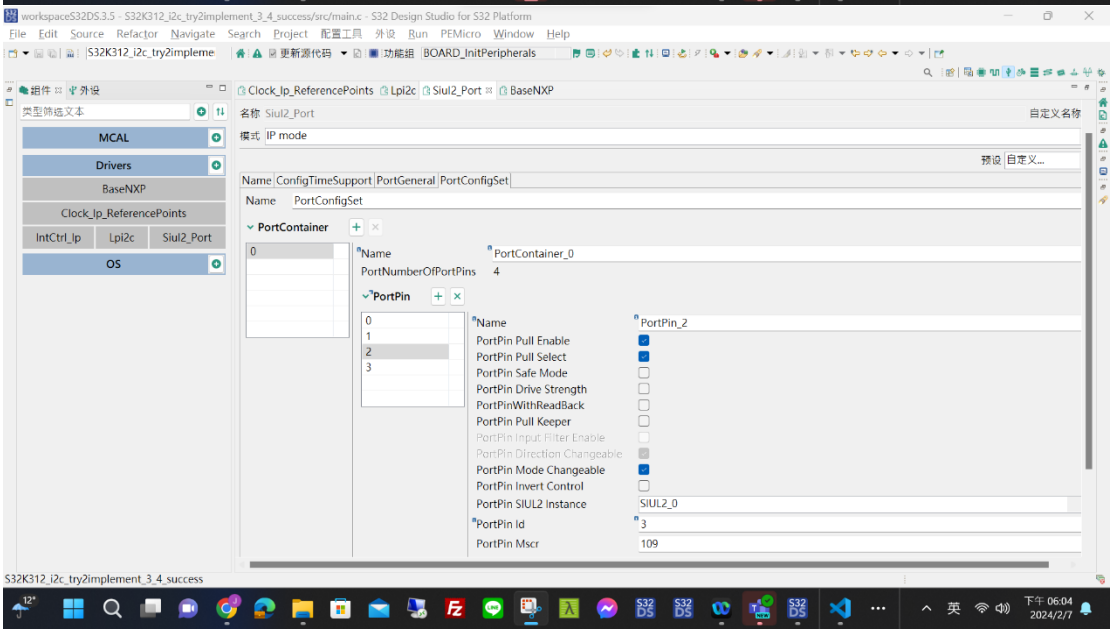
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名称 Siul2_Port
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PortGeneral
PortConfigSet
Name
PortConfigSet
PortContainer
0
Name
PortContainer_0
PortNumberOfPortPins
4
PortPin
0
1
2
3
Name
PortPin_2
PortPin Pull Enable
PortPin Pull Select
PortPin Safe Mode
PortPin Drive Strength
PortPinWithReadBack
PortPin Pull Keeper
PortPin Input Filter Enable
PortPin Direction Changeable
PortPin Mode Changeable
PortPin Invert Control
PortPin SIUL2 Instance
SIUL2_0
PortPin Id
3
PortPin Mscr
109
S32K312_i2c_try2implement_3_4_success
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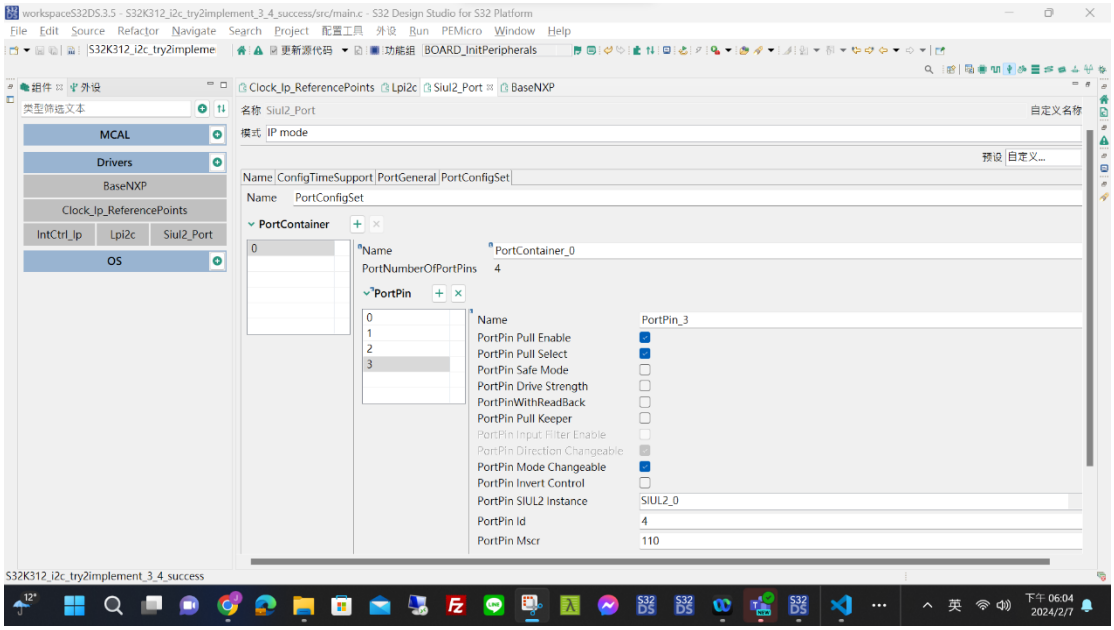
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PortPin
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2
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PortPin Id 4
PortPin Mscr 110
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