How To Use EmbSys Registers

EPSON
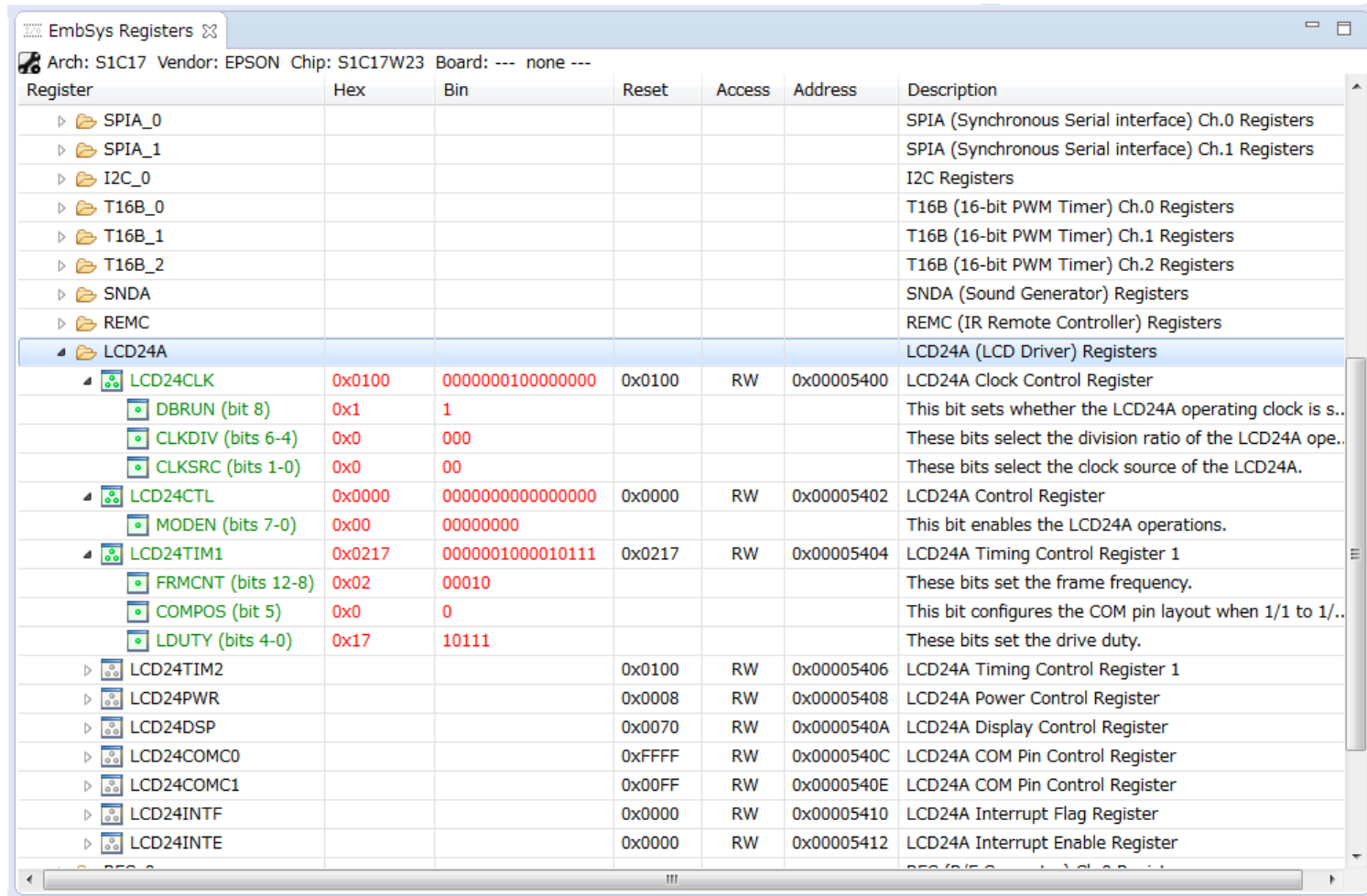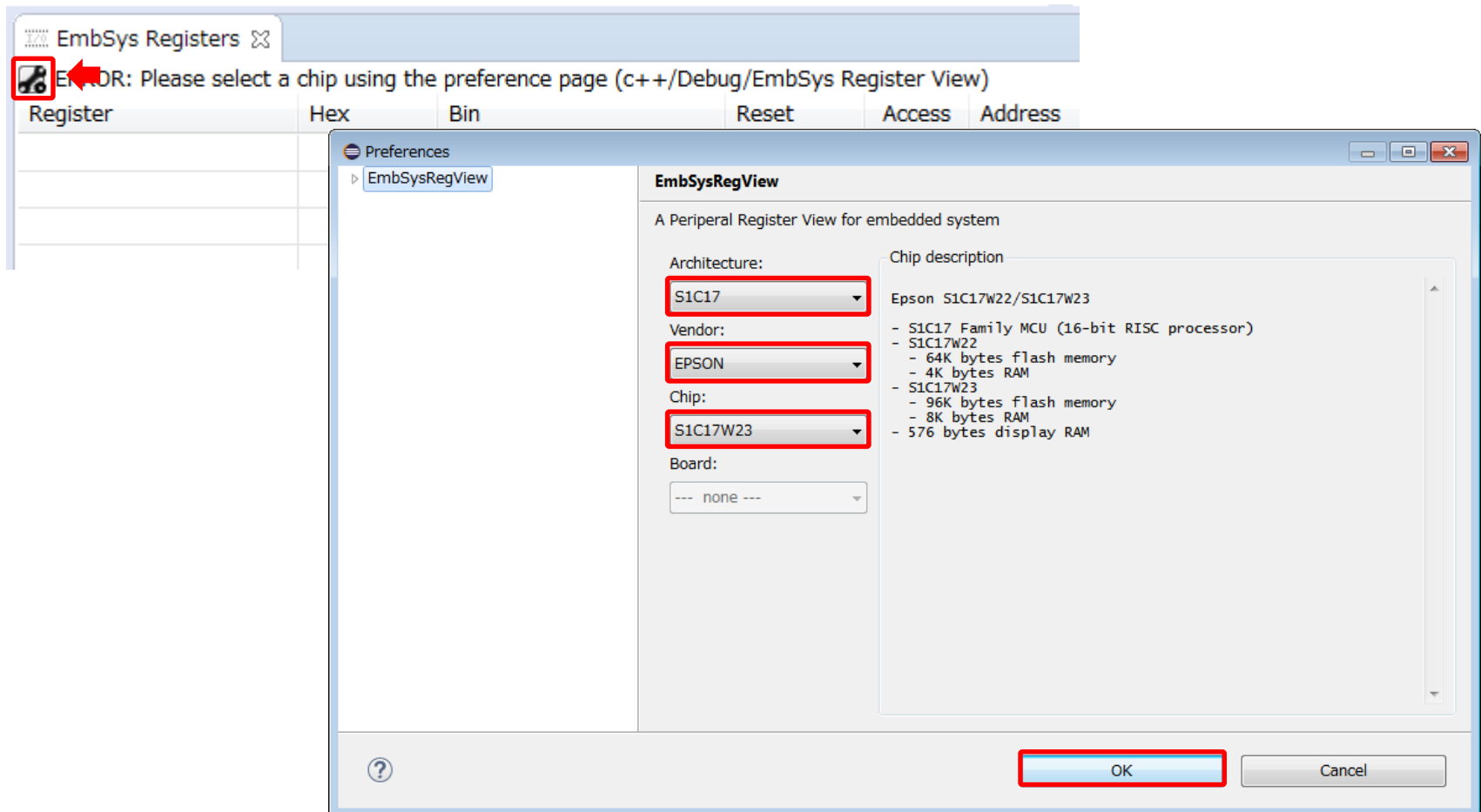EXCEED YOUR VISION

This is useful function for showing register values in debug.

It can show not only current values, but also initial values and R/W attributes.

Register	Hex	Bin	Reset	Access	Address	Description
▷ 📁 SPIA_0						SPIA (Synchronous Serial interface) Ch.0 Registers
▷ 📁 SPIA_1						SPIA (Synchronous Serial interface) Ch.1 Registers
▷ 📁 I2C_0						I2C Registers
▷ 📁 T16B_0						T16B (16-bit PWM Timer) Ch.0 Registers
▷ 📁 T16B_1						T16B (16-bit PWM Timer) Ch.1 Registers
▷ 📁 T16B_2						T16B (16-bit PWM Timer) Ch.2 Registers
▷ 📁 SNDA						SNDA (Sound Generator) Registers
▷ 📁 REMC						REMC (IR Remote Controller) Registers
▲ 📁 LCD24A						LCD24A (LCD Driver) Registers
▲ LCD24CLK	0x0100	0000000100000000	0x0100	RW	0x00005400	LCD24A Clock Control Register
DBRUN (bit 8)	0x1	1				This bit sets whether the LCD24A operating clock is s..
CLKDIV (bits 6-4)	0x0	000				These bits select the division ratio of the LCD24A ope..
CLKSRC (bits 1-0)	0x0	00				These bits select the clock source of the LCD24A.
▲ LCD24CTL	0x0000	0000000000000000	0x0000	RW	0x00005402	LCD24A Control Register
MODEN (bits 7-0)	0x00	00000000				This bit enables the LCD24A operations.
▲ LCD24TIM1	0x0217	0000001000010111	0x0217	RW	0x00005404	LCD24A Timing Control Register 1
FRMCNT (bits 12-8)	0x02	00010				These bits set the frame frequency.
COMPOS (bit 5)	0x0	0				This bit configures the COM pin layout when 1/1 to 1/..
LDUTY (bits 4-0)	0x17	10111				These bits set the drive duty.
▷ LCD24TIM2			0x0100	RW	0x00005406	LCD24A Timing Control Register 1
▷ LCD24PWR			0x0008	RW	0x00005408	LCD24A Power Control Register
▷ LCD24DSP			0x0070	RW	0x0000540A	LCD24A Display Control Register
▷ LCD24COMC0			0xFFFF	RW	0x0000540C	LCD24A COM Pin Control Register
▷ LCD24COMC1			0x00FF	RW	0x0000540E	LCD24A COM Pin Control Register
▷ LCD24INTF			0x0000	RW	0x00005410	LCD24A Interrupt Flag Register
▷ LCD24INTE			0x0000	RW	0x00005412	LCD24A Interrupt Enable Register

EmbSys Registers ✕

Arch: S1C17 Vendor: EPSON Chip: S1C17W23 Board: --- none ---

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1. By default, there is [EmbSys Registers] view in [C/C++] perspective.

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2. Setting the target MCU model.
   Please push the configration icon on the upper-left corner.
3. Please set the "Architecture", "Vendor", "Chip" of target MCU.
4. Finally, Push [OK] button.
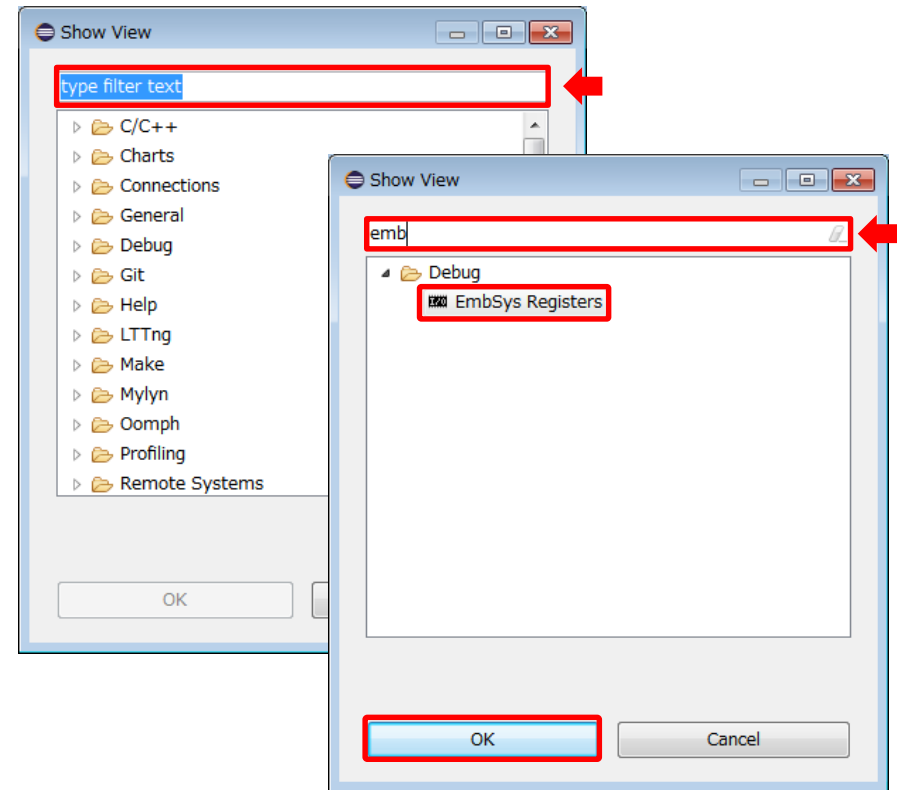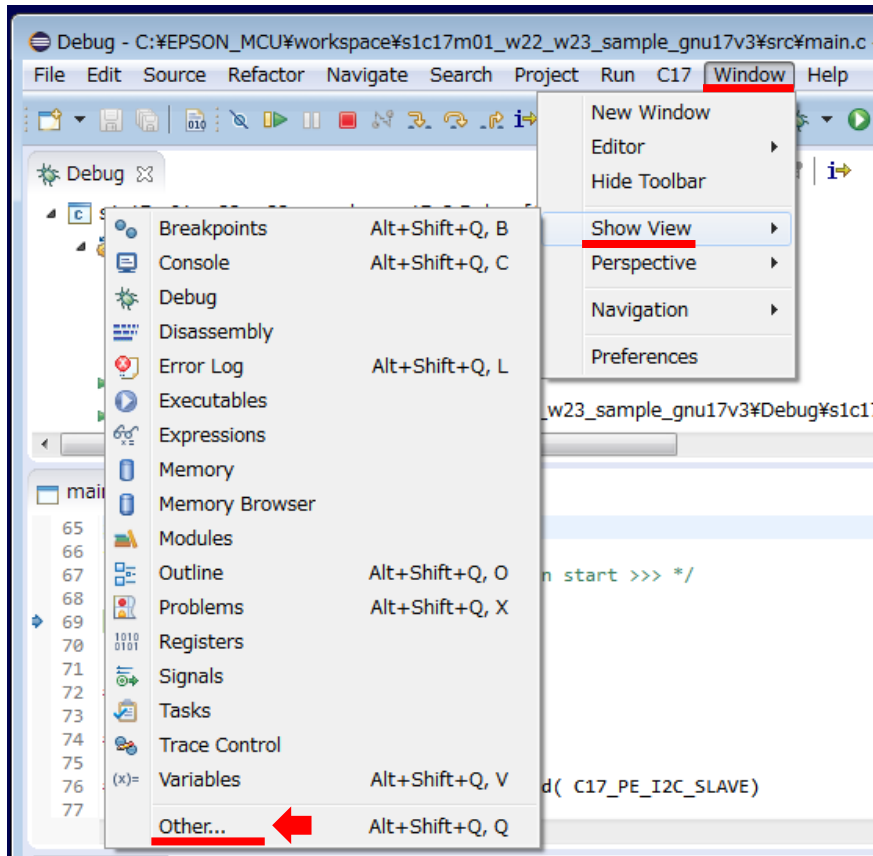
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5. Please double click the icons of showing registers, icon will change to "Active (green)".

How To Use EmbSys Registers

How to open [EmbSys Registers] view in [Debug] perspective.
  1. Select [Window]>[Show View]>[Other...]
  2. Input "emb" to [type filter text] box in [Show View] window.
  3. Select the displayed [EmbSys Registers], and push [OK] button.

How To Use EmbSys Registers

How to add new MCU register diffinition file.

1. Please insert "*.xml" file which was downloaded from EPSON Web site to below folder in your PC.
   "C:¥EPSON¥GNU17V3¥eclipse¥plugins¥org.eclipse.cdt.embsysregview.data_0.2.5.r180¥data¥S1C17¥EPSON¥"

2. Added new MCU can be selected from the configulation icon.