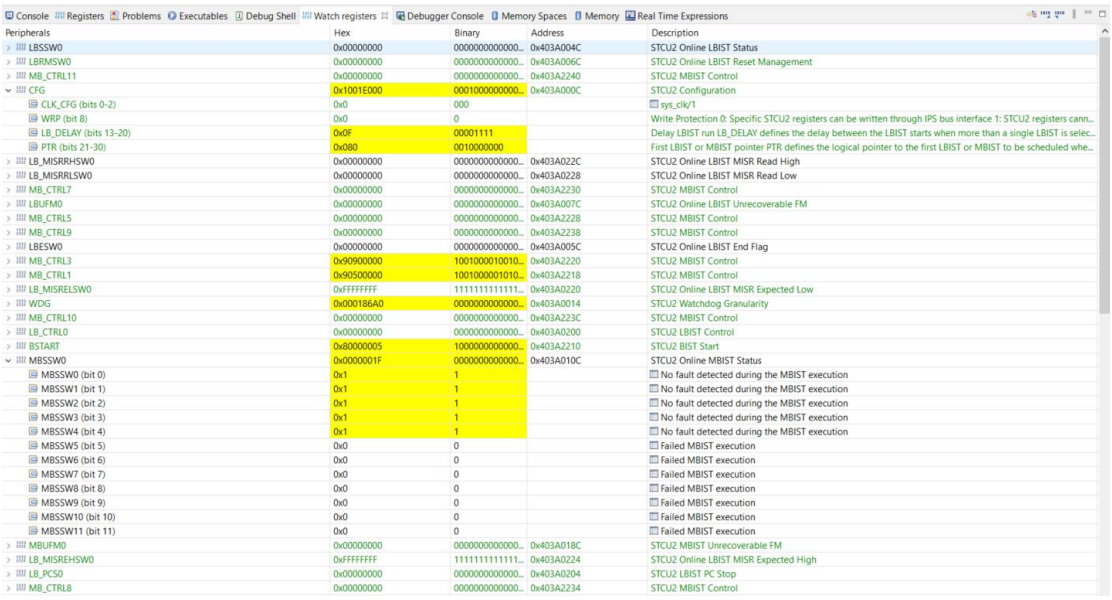
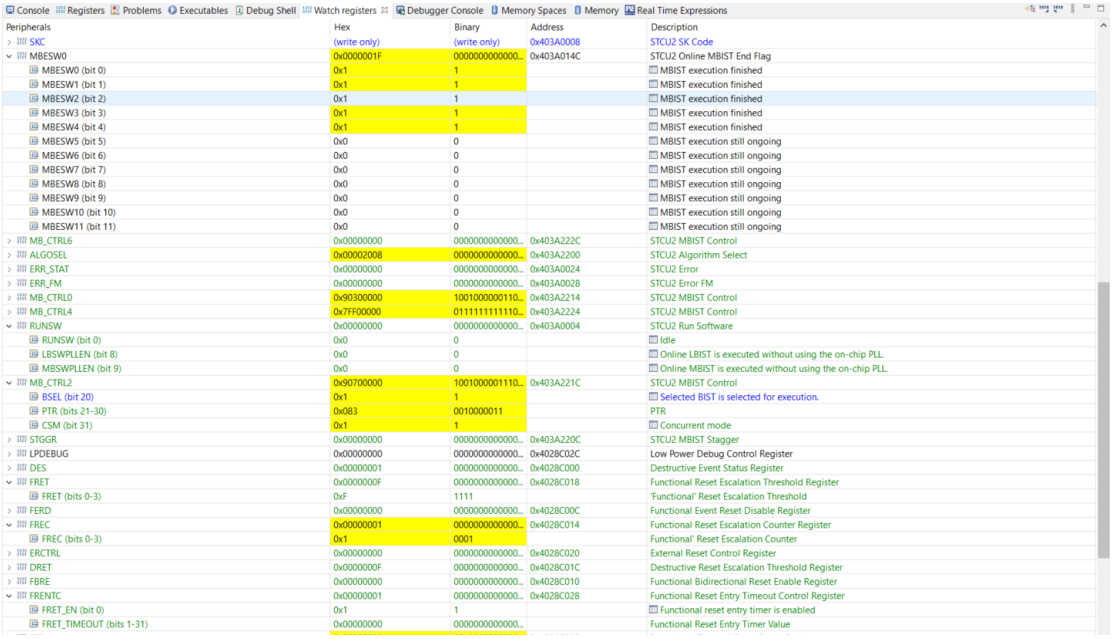


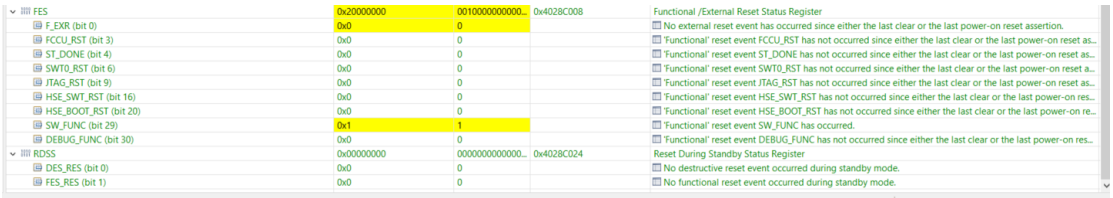
Console | Registers | Problems | Executables | Debug Shell | Watch registers | Debugger Console | Memory Spaces | Memory | Real Time Expressions

Peripherals	Hex	Binary	Address	Description
LBSSW0	0x00000000	0000000000000...	0x403A004C	STCU2 Online LBIST Status
LBRMSW0	0x00000000	0000000000000...	0x403A006C	STCU2 Online LBIST Reset Management
MB_CTRL11	0x00000000	0000000000000...	0x403A2240	STCU2 MBIST Control
CFG	0x1001E000	0001000000000...	0x403A000C	STCU2 Configuration
CLK_CFG (bits 0-2)	0x0	000		sys_clk/1
WRP (bit 8)	0x0	0		Write Protection 0: Specific STCU2 registers can be written through IPS bus interface 1: STCU2 registers cann...
LB_DELAY (bits 13-20)	0x0F	00001111		Delay LBIST run LB_DELAY defines the delay between the LBIST starts when more than a single LBIST is selec...
PTR (bits 21-30)	0x080	0010000000		First LBIST or MBIST pointer PTR defines the logical pointer to the first LBIST or MBIST to be scheduled whe...
LB_MISRRHSW0	0x00000000	0000000000000...	0x403A022C	STCU2 Online LBIST MISR Read High
LB_MISRRLSW0	0x00000000	0000000000000...	0x403A0228	STCU2 Online LBIST MISR Read Low
MB_CTRL7	0x00000000	0000000000000...	0x403A2230	STCU2 MBIST Control
LBUFM0	0x00000000	0000000000000...	0x403A007C	STCU2 Online LBIST Unrecoverable FM
MB_CTRL5	0x00000000	0000000000000...	0x403A2228	STCU2 MBIST Control
MB_CTRL9	0x00000000	0000000000000...	0x403A2238	STCU2 MBIST Control
LBESW0	0x00000000	0000000000000...	0x403A005C	STCU2 Online LBIST End Flag
MB_CTRL3	0x90900000	1001000010010...	0x403A2220	STCU2 MBIST Control
MB_CTRL1	0x90500000	1001000001010...	0x403A2218	STCU2 MBIST Control
LB_MISRELSW0	0xFFFFFFFF	1111111111111...	0x403A0220	STCU2 Online LBIST MISR Expected Low
WDG	0x000186A0	0000000000000...	0x403A0014	STCU2 Watchdog Granularity
MB_CTRL10	0x00000000	0000000000000...	0x403A223C	STCU2 MBIST Control
LB_CTRL0	0x00000000	0000000000000...	0x403A0200	STCU2 LBIST Control
BSTART	0x80000005	1000000000000...	0x403A2210	STCU2 BIST Start
MBSSW0	0x0000001F	0000000000000...	0x403A010C	STCU2 Online MBIST Status
MBSSW0 (bit 0)	0x1	1		No fault detected during the MBIST execution
MBSSW1 (bit 1)	0x1	1		No fault detected during the MBIST execution
MBSSW2 (bit 2)	0x1	1		No fault detected during the MBIST execution
MBSSW3 (bit 3)	0x1	1		No fault detected during the MBIST execution
MBSSW4 (bit 4)	0x1	1		No fault detected during the MBIST execution
MBSSW5 (bit 5)	0x0	0		Failed MBIST execution
MBSSW6 (bit 6)	0x0	0		Failed MBIST execution
MBSSW7 (bit 7)	0x0	0		Failed MBIST execution
MBSSW8 (bit 8)	0x0	0		Failed MBIST execution
MBSSW9 (bit 9)	0x0	0		Failed MBIST execution
MBSSW10 (bit 10)	0x0	0		Failed MBIST execution
MBSSW11 (bit 11)	0x0	0		Failed MBIST execution
MBUFM0	0x00000000	0000000000000...	0x403A018C	STCU2 MBIST Unrecoverable FM
LB_MISREHSW0	0xFFFFFFFF	1111111111111...	0x403A0224	STCU2 Online LBIST MISR Expected High
LB_PCS0	0x00000000	0000000000000...	0x403A0204	STCU2 LBIST PC Stop
MB_CTRL8	0x00000000	0000000000000...	0x403A2234	STCU2 MBIST Control



Console | Registers | Problems | Executables | Debug Shell | Watch registers | Debugger Console | Memory Spaces | Memory | Real Time Expressions

Peripherals	Hex	Binary	Address	Description
SKC	(write only)	(write only)	0x403A0008	STCU2 SK Code
MBESW0	0x0000001F	0000000000000...	0x403A014C	STCU2 Online MBIST End Flag
MBESW0 (bit 0)	0x1	1		MBIST execution finished
MBESW1 (bit 1)	0x1	1		MBIST execution finished
MBESW2 (bit 2)	0x1	1		MBIST execution finished
MBESW3 (bit 3)	0x1	1		MBIST execution finished
MBESW4 (bit 4)	0x1	1		MBIST execution finished
MBESW5 (bit 5)	0x0	0		MBIST execution still ongoing
MBESW6 (bit 6)	0x0	0		MBIST execution still ongoing
MBESW7 (bit 7)	0x0	0		MBIST execution still ongoing
MBESW8 (bit 8)	0x0	0		MBIST execution still ongoing
MBESW9 (bit 9)	0x0	0		MBIST execution still ongoing
MBESW10 (bit 10)	0x0	0		MBIST execution still ongoing
MBESW11 (bit 11)	0x0	0		MBIST execution still ongoing
MB_CTRL6	0x00000000	0000000000000...	0x403A222C	STCU2 MBIST Control
ALGOSEL	0x00002008	0000000000000...	0x403A2200	STCU2 Algorithm Select
ERR_STAT	0x00000000	0000000000000...	0x403A0024	STCU2 Error
ERR_FM	0x00000000	0000000000000...	0x403A0028	STCU2 Error FM
MB_CTRL0	0x90300000	1001000001110...	0x403A2214	STCU2 MBIST Control
MB_CTRL4	0x7FF00000	0111111111110...	0x403A2224	STCU2 MBIST Control
RUNSW	0x00000000	0000000000000...	0x403A0004	STCU2 Run Software
RUNSW (bit 0)	0x0	0		Idle
LBSWPLLEN (bit 8)	0x0	0		Online LBIST is executed without using the on-chip PLL.
MBSWPLLEN (bit 9)	0x0	0		Online MBIST is executed without using the on-chip PLL.
MB_CTRL2	0x90700000	1001000011110...	0x403A221C	STCU2 MBIST Control
BSEL (bit 20)	0x1	1		Selected BIST is selected for execution.
PTR (bits 21-30)	0x083	0010000011		PTR
CSM (bit 31)	0x1	1		Concurrent mode
STGGR	0x00000000	0000000000000...	0x403A220C	STCU2 MBIST Stagger
LPDEBUG	0x00000000	0000000000000...	0x4028C02C	Low Power Debug Control Register
DES	0x00000001	0000000000000...	0x4028C000	Destructive Event Status Register
FRET	0x0000000F	0000000000000...	0x4028C018	Functional Reset Escalation Threshold Register
FRET (bits 0-3)	0xF	1111		'Functional' Reset Escalation Threshold
FERD	0x00000000	0000000000000...	0x4028C00C	Functional Event Reset Disable Register
FREC	0x00000001	0000000000000...	0x4028C014	Functional Reset Escalation Counter Register
FREC (bits 0-3)	0x1	0001		Functional' Reset Escalation Counter
ERCTRL	0x00000000	0000000000000...	0x4028C020	External Reset Control Register
DRET	0x0000000F	0000000000000...	0x4028C01C	Destructive Reset Escalation Threshold Register
FBRE	0x00000000	0000000000000...	0x4028C010	Functional Bidirectional Reset Enable Register
FRENTC	0x00000001	0000000000000...	0x4028C028	Functional Reset Entry Timeout Control Register
FRET_EN (bit 0)	0x1	1		Functional reset entry timer is enabled
FRET_TIMEOUT (bits 1-31)	0x00000000	0000000000000...		Functional Reset Entry Timer Value



FES	0x20000000	0010000000000...	0x4028C008	Functional /External Reset Status Register
F_EXR (bit 0)	0x0	0		No external reset event has occurred since either the last clear or the last power-on reset assertion.
FCCU_RST (bit 3)	0x0	0		'Functional' reset event FCCU_RST has not occurred since either the last clear or the last power-on reset as...
ST_DONE (bit 4)	0x0	0		'Functional' reset event ST_DONE has not occurred since either the last clear or the last power-on reset as...
SWT0_RST (bit 6)	0x0	0		'Functional' reset event SWT0_RST has not occurred since either the last clear or the last power-on reset a...
JTAG_RST (bit 9)	0x0	0		'Functional' reset event JTAG_RST has not occurred since either the last clear or the last power-on reset as...
HSE_SWT_RST (bit 16)	0x0	0		'Functional' reset event HSE_SWT_RST has not occurred since either the last clear or the last power-on res...
HSE_BOOT_RST (bit 20)	0x0	0		'Functional' reset event HSE_BOOT_RST has not occurred since either the last clear or the last power-on re...
SW_FUNC (bit 29)	0x1	1		'Functional' reset event SW_FUNC has occurred.
DEBUG_FUNC (bit 30)	0x0	0		'Functional' reset event DEBUG_FUNC has not occurred since either the last clear or the last power-on res...
RDSS	0x00000000	0000000000000...	0x4028C024	Reset During Standby Status Register
DES_RES (bit 0)	0x0	0		No destructive reset event occurred during standby mode.
FES_RES (bit 1)	0x0	0		No functional reset event occurred during standby mode.

31.3.5 Functional reset sources

Table 174. Functional reset sources

Source module	Field in MC_RGM.FES	RESET_b assertion	Demotable to IRQ[1]	Escalation[2]	Description
FCCU soft reaction[3]	FCCU_RST	Always	Yes[4]	Yes	FCCU reset reaction
STCU2	ST_DONE	Configurable	No	No	Self-test done
SWT_0	SWT0_RST	Always	Yes[5]	Yes	SWT reset request
SWT_1[6]	SWT1_RST	Always	Yes[7]	Yes	SWT reset request
SWT_2[8]	SWT2_RST	Always	Yes[9]	Yes	SWT reset request
SWT_3[10]	SWT3_RST	Always	Yes[11]	Yes	SWT reset request
PLL_AUX[12]	PLL_AUX_RST[13]	Always	Yes[14]	Yes	PLL reset request
JTAGC	JTAG_RST	Always	Yes [15]	No	JTAG reset
HSE_B	HSE_SWT_RST	Always	No	Yes	HSE_B SWT timeout
HSE_B	HSE_BOOT_RST	Always	No	Yes	HSE_B boot reset
MC_ME	SW_FUNC	Always	No	Yes	Software functional reset
MDM_AP	DEBUG_FUNC	Always	Yes [16]	Yes	Debug functional reset