

TRCSSCCR<n>, Single-shot Comparator Control Register <n>, n = 0 - 7

The TRCSSCCR<n> characteristics are:

Purpose

Controls the corresponding Single-shot Comparator Control resource.

Configuration

External register TRCSSCCR<n> bits [31:0] are architecturally mapped to AArch64 System register [TRCSSCCR<n>\[31:0\]](#).

This register is present only when FEAT_ETE is implemented, FEAT_TRC_EXT is implemented and $\text{UInt}(\text{TRCIDR4.NUMSSCC}) > n$. Otherwise, direct accesses to TRCSSCCR<n> are res0.

Attributes

TRCSSCCR<n> is a 32-bit register.

Field descriptions

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13
RES0							RST	ARC[7]	ARC[6]	ARC[5]	ARC[4]	ARC[3]	ARC[2]	ARC[1]	ARC[0]	SAC[15]	SAC[14]	SAC[13]

Bits [31:25]

Reserved, res0.

RST, bit [24]

Selects the Single-shot Comparator Control mode.

RST	Meaning
0b0	The Single-shot Comparator Control is in single-shot mode.
0b1	The Single-shot Comparator Control is in multi-shot mode.

The reset behavior of this field is:

- On a Trace unit reset, this field resets to an architecturally unknown value.

ARC[<m>], bit [m+16], for m = 7 to 0

Selects one or more Address Range Comparators for Single-shot control.

ARC[<m>]	Meaning
0b0	The Address Range Comparator <m>, is not selected for Single-shot control.
0b1	The Address Range Comparator <m>, is selected for Single-shot control.

This bit is res0 if $m \geq \text{TRCIDR4.NUMACPAIRS}$.

The reset behavior of this field is:

- On a Trace unit reset, this field resets to an architecturally unknown value.

SAC[<m>], bit [m], for m = 15 to 0

Selects one or more Single Address Comparators for Single-shot control.

SAC[<m>]	Meaning
0b0	The Single Address Comparator <m>, is not selected for Single-shot control.
0b1	The Single Address Comparator <m>, is selected for Single-shot control.

This bit is res0 if $m \geq 2 \text{ } \tilde{\text{A}} \text{--- } \text{TRCIDR4.NUMACPAIRS}$.

The reset behavior of this field is:

- On a Trace unit reset, this field resets to an architecturally unknown value.

Accessing TRCSSCCR<n>

Must be programmed if any [TRCRSCTLR<a>](#).GROUP == 0b0011 and [TRCRSCTLR<a>](#).SINGLE_SHOT[n] == 1.

Writes are constrained unpredictable if the trace unit is not in the Idle state.

TRCSSCCR<n> can be accessed through the external debug interface:

Component	Offset	Instance
ETE	$0x280 + (4 * n)$	TRCSSCCR<n>

This interface is accessible as follows:

- When OSLockStatus(), or !AllowExternalTraceAccess() or !IsTraceCorePowered(), accesses to this register generate an error response.
- Otherwise, accesses to this register are **RW**.

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