

GICD_CLRSPI_SR, Clear Secure SPI Pending Register

The GICD_CLRSPI_SR characteristics are:

Purpose

Removes the pending state from a valid SPI.

A write to this register changes the state of a pending SPI to inactive, and the state of an active and pending SPI to active.

Configuration

If [GICD_TYPER](#).MBIS == 0, this register is reserved.

When [GICD_CTLR](#).DS == 1, this register is WI.

Attributes

GICD_CLRSPI_SR 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	12	11	10	9	8	7	6	5	4	3	2	1	0
RES0																				INTID											

Bits [31:13]

Reserved, res0.

INTID, bits [12:0]

The INTID of the SPI.

The function of this register depends on whether the targeted SPI is configured to be an edge-triggered or level-sensitive interrupt:

- For an edge-triggered interrupt, a write to [GICD_SETSPI_NSR](#) or [GICD_SETSPI_SR](#) adds the pending state to the targeted interrupt. It will stop being pending on activation, or if the pending state is removed by a write to [GICD_CLRSPI_NSR](#), [GICD_CLRSPI_SR](#), or [GICD_ICPENDR<n>](#).
- For a level-sensitive interrupt, a write to [GICD_SETSPI_NSR](#) or [GICD_SETSPI_SR](#) adds the pending state to the targeted interrupt. It will remain pending until it is deasserted by a write to

[GICD_CLRSPI_NSR](#) or GICD_CLRSPI_SR. If the interrupt is activated between having the pending state added and being deactivated, then the interrupt will be active and pending.

Accessing GICD_CLRSPI_SR

Writes to this register have no effect if:

- The value is written by a Non-secure access.
- The value written specifies an invalid SPI.
- The SPI is not pending.

16-bit accesses to bits [15:0] of this register must be supported.

GICD_CLRSPI_SR can be accessed through the memory-mapped interfaces:

Component	Frame	Offset	Instance
GIC Distributor	Dist_base	0x0058	GICD_CLRSPI_SR

This interface is accessible as follows:

- When GICD_CTLR.DS == 1, accesses to this register are **WI**.
- When GICD_CTLR.DS == 0 and an access is Secure, accesses to this register are **WO**.
- When GICD_CTLR.DS == 0 and an access is Non-secure, accesses to this register are **WI**.
- When GICD_CTLR.DS == 0, FEAT_RME is implemented and an access is Root, accesses to this register are **WO**.
- When GICD_CTLR.DS == 0, FEAT_RME is implemented and an access is Realm, accesses to this register are **WI**.

[AArch32
Registers](#)

[AArch64
Registers](#)

[AArch32
Instructions](#)

[AArch64
Instructions](#)

[Index by
Encoding](#)

[External
Registers](#)

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