

GICR_ISACTIVER0, Interrupt Set-Active Register 0

The GICR_ISACTIVER0 characteristics are:

Purpose

Activates the corresponding SGI or PPI. These registers are used when saving and restoring GIC state.

Configuration

A copy of this register is provided for each Redistributor.

Attributes

GICR_ISACTIVER0 is a 32-bit register.

Field descriptions

31	30	29	28	27	26
Set_active_bit31	Set_active_bit30	Set_active_bit29	Set_active_bit28	Set_active_bit27	Set_active_bit26

Set_active_bit<x>, bit [x], for x = 31 to 0

Adds the active state to interrupt number x. Reads and writes have the following behavior:

Set_active_bit<x>	Meaning
0b0	If read, indicates that the corresponding interrupt is not active, and is not active and pending. If written, has no effect.

0b1

If read, indicates that the corresponding interrupt is active, or is active and pending.
If written, activates the corresponding interrupt, if the interrupt is not already active. If the interrupt is already active, the write has no effect. After a write of 1 to this bit, a subsequent read of this bit returns 1.

The reset behavior of this field is:

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

Accessing GICR_ISACTIVER0

When affinity routing is not enabled for the Security state of an interrupt in GICR_ISACTIVER0, the corresponding bit is RAZ/WI and equivalent functionality is provided by [GICD_ISACTIVER<n>](#) with n=0.

This register only applies to SGIs (bits [15:0]) and PPIs (bits [31:16]). For SPIs, this functionality is provided by [GICD_ISACTIVER<n>](#).

When [GICD_CTLR](#).DS == 0, bits corresponding to Secure SGIs and PPIs are RAZ/WI to Non-secure accesses.

GICR_ISACTIVER0 can be accessed through the memory-mapped interfaces:

Component	Frame	Offset	Instance
GIC Redistributor	SGI_base	0x0300	GICR_ISACTIVER0

Accesses on this interface are **RW**.

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