

GICR_ICACTIVER<n>E, Interrupt Clear-Active Registers, n = 1 - 2

The GICR_ICACTIVER<n>E characteristics are:

Purpose

Removes the active state from the corresponding PPI.

Configuration

This register is present only when FEAT_GICv3p1 is implemented. Otherwise, direct accesses to GICR_ICACTIVER<n>E are res0.

A copy of this register is provided for each Redistributor.

Attributes

GICR_ICACTIVER<n>E is a 32-bit register.

Field descriptions

31	30	29	28	27	
Clear_active_bit31	Clear_active_bit30	Clear_active_bit29	Clear_active_bit28	Clear_active_bit27	Clear_active_bit26

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

For the extended PPIs, removes the active state to interrupt number x. Reads and writes have the following behavior:

Clear_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, deactivates the corresponding interrupt, if the interrupt is active. If the interrupt is already deactivated, the write has no effect.

The reset behavior of this field is:

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

For INTID m , when DIV and MOD are the integer division and modulo operations:

- The corresponding GICR_ICACTIVER< n >E number, n , is given by $n = (m-1024) \text{ DIV } 32$.
- The offset of the required GICR_ICACTIVER< n >E is $(0 \times 200 + (4 * n))$.
- The bit number of the required group modifier bit in this register is $(m-1024) \text{ MOD } 32$.

Accessing GICR_ICACTIVER< n >E

When affinity routing is not enabled for the Security state of an interrupt in GICR_ICACTIVER< n >E, the corresponding bit is res0.

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

Bits corresponding to unimplemented interrupts are RAZ/WI.

GICR_ICACTIVER< n >E can be accessed through the memory-mapped interfaces:

Component	Frame	Offset	Instance
GIC Redistributor	SGI_base	$0 \times 0380 + (4 * n)$	GICR_ICACTIVER< n >E

Accesses on this interface are **RW**.

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