GICR_ISENABLER0, Interrupt Set-Enable Register 0

The GICR_ISENABLER0 characteristics are:

Purpose

Enables forwarding of the corresponding SGI or PPI to the CPU interfaces.

Configuration

A copy of this register is provided for each Redistributor.

Attributes

GICR_ISENABLER0 is a 32-bit register.

Field descriptions

31	30	29	28	27	26
Set_enable_bit31	Set_enable_bit30	Set_enable_bit29	Set_enable_bit28	Set_enable_bit27	Set_enable_b

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

For PPIs and SGIs, controls the forwarding of interrupt number x to the CPU interface. Reads and writes have the following behavior:

Set_enable_bit<x>	Meaning
0b0	If read, indicates that forwarding of the corresponding interrupt is disabled. If written, has no effect.

0b1	If read, indicates that forwarding of the corresponding interrupt is enabled. If written, enables forwarding of the corresponding interrupt. 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 0.

Accessing GICR_ISENABLER0

When affinity routing is not enabled for the Security state of an interrupt in GICR_ISENABLER0, the corresponding bit is RAZ/WI and equivalent functionality is provided by GICD_ISENABLER<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_ISENABLER<n>.

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

GICR_ISENABLER0 can be accessed through the memory-mapped interfaces:

Component	Frame	Offset	Instance
GIC Redistributor	SGI_base	0x0100	GICR_ISENABLER0

Accesses on this interface are **RW**.

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