GICV_IIDR, Virtual Machine CPU Interface Identification Register

The GICV_IIDR characteristics are:

Purpose

Provides information about the implementer and revision of the virtual CPU interface.

Configuration

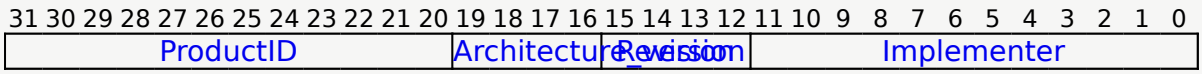
This register is present only when FEAT_GICv3_LEGACY is implemented and EL2 is implemented. Otherwise, direct accesses to GICV_IIDR are res0.

This register is available in all configurations of the GIC. If the GIC implementation supports two Security states this register is Common.

Attributes

GICV_IIDR is a 32-bit register.

Field descriptions



ProductID, bits [31:20]

Product Identifier.

This field has an implementation defined value.

Access to this field is **RO**.

Architecture_version, bits [19:16]

The version of the GIC architecture that is implemented.

Architecture_version	Meaning
0b0001	GICv1.
0b0010	GICv2.

0b0011	GICv3 memory-mapped interface supported. Support for the System register interface is discoverable from PE registers ID_PFR1 and ID_AA64PFR0_EL1.
0b0100	GICv4 memory-mapped interface supported. Support for the System register interface is discoverable from PE registers ID_PFR1 and ID_AA64PFR0_EL1.

Other values are reserved.

Revision, bits [15:12]

Revision number for the CPU interface.

This field has an implementation defined value.

Access to this field is **RO**.

Implementer, bits [11:0]

Contains the JEP106 code of the company that implemented the CPU interface.

- Bits [11:8] are the JEP106 continuation code of the implementer. For an Arm implementation, this field is `0x4`.
- Bit [7] is always 0.
- Bits [6:0] are the JEP106 identity code of the implementer. For an Arm implementation, bits [7:0] are therefore `0x3B`.

Accessing GICV_IIDR

GICV_IIDR can be accessed through the memory-mapped interfaces:

Component	Offset	Instance
GIC Virtual CPU interface	`0x00FC`	GICV_IIDR

This interface is accessible as follows:

- When GICD_CTLR.DS == 0, accesses to this register are **RO**.
- When an access is Secure, accesses to this register are **RO**.
- When an access is Non-secure, accesses to this register are **RO**.

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