CTIDEVAFF0, CTI Device Affinity register 0

The CTIDEVAFF0 characteristics are:

Purpose

Copy of the low half of the PE MPIDR_EL1 register that allows a debugger to determine which PE in a multiprocessor system the CTI component relates to.

Configuration

CTIDEVAFF0 is in the Debug power domain.

If the CTI is CTIv1, this register is optional. If the CTI is CTIv2, this register is mandatory.

Arm recommends that the CTI is CTIv2.

In an Armv8.5 compliant implementation, the CTI must be CTIv2.

If this register is implemented, then CTIDEVAFF1 must also be implemented. If the CTI of a PE does not implement the CTI Device Affinity registers, the CTI block of the external debug memory map must be located 64KB above the debug registers in the external debug interface.

Attributes

CTIDEVAFF0 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
MPIDR_EL1lo																															

MPIDR_EL1lo, bits [31:0]

MPIDR_EL1 low half. Read-only copy of the low half of MPIDR_EL1, as seen from the highest implemented Exception level.

This field has an implementation defined value.

Access to this field is **RO**.

Accessing CTIDEVAFF0

CTIDEVAFF0 can be accessed through the external debug interface:

Component	Offset	Instance
CTI	0xFA8	CTIDEVAFF0

Accesses on this interface are **RO**.

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