MPAMF_PARTID_NRW_IDR, MPAM PARTID Narrowing ID register

The MPAMF_PARTID_NRW_IDR characteristics are:

Purpose

Indicates the largest internal PARTID for this MSC.

MPAMF_PARTID_NRW_IDR_s indicates the largest Secure internal PARTID. MPAMF_PARTID_NRW_IDR_ns indicates the largest Non-secure internal PARTID.

When FEAT_RME is implemented: MPAMF_PARTID_NRW_rt indicates the largest Root internal PARTID. MPAMF_PARTID_NRW_rl indicates the largest Realm internal PARTID.

PARTID narrowing is global to the MSC and does not vary by resource instance.

Configuration

This register is present only when FEAT_MPAM is implemented and MPAMF_IDR.HAS_PARTID_NRW == 1. Otherwise, direct accesses to MPAMF_PARTID_NRW_IDR are res0.

The power and reset domain of each MSC component is specific to that component.

Attributes

MPAMF_PARTID_NRW_IDR 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
RES0	INTPARTID_MAX

Bits [31:16]

Reserved, res0.

INTPARTID_MAX, bits [15:0]

The largest intPARTID supported in this MSC.

Accessing MPAMF_PARTID_NRW_IDR

This register is within the MPAM feature page memory frames. In a system that supports Secure, Non-secure, Root, and Realm memory maps, there must be MPAM feature pages in all four address maps.

MPAMF_PARTID_NRW_IDR is read-only.

MPAMF_PARTID_NRW_IDR must be readable from the Non-secure, Secure, Root, and Realm MPAM feature pages.

MPAMF_PARTID_NRW_IDR is permitted to have the same contents when read from the Secure, Non-secure, Root, and Realm MPAM feature pages unless the register contents are different for the different versions:

- MPAMF_PARTID_NRW_IDR_s is permitted to have either the same or different contents to MPAMF_PARTID_NRW_IDR_ns, MPAMF_PARTID_NRW_IDR_rt, or MPAMF_PARTID_NRW_IDR_rl.
- MPAMF_PARTID_NRW_IDR_ns is permitted to have either the same or different contents to MPAMF_PARTID_NRW_IDR_rt or MPAMF_PARTID_NRW_IDR_rl.
- MPAMF_PARTID_NRW_IDR_rt is permitted to have either the same or different contents to MPAMF_PARTID_NRW_IDR_rl.

There must be separate registers in the Secure (MPAMF_PARTID_NRW_IDR_s), Non-secure (MPAMF_PARTID_NRW_IDR_ns), Root (MPAMF_PARTID_NRW_IDR_rt), and Realm (MPAMF_PARTID_NRW_IDR_rl) MPAM feature pages.

MPAMF_PARTID_NRW_IDR can be accessed through the memory-mapped interfaces:

Component	Frame	Offset	Instance
MPAM	MPAMF_BASE_s	0x0050	MPAMF_PARTID_NRW_IDR_s

Accesses on this interface are **RO**.

Component	Frame	Offset	Instance
MPAM	MPAMF_BASE_ns	0x0050	MPAMF_PARTID_NRW_IDR_ns

Accesses on this interface are **RO**.

Component	Frame	Offset	Instance
MPAM	MPAMF_BASE_rt	0x0050	MPAMF_PARTID_NRW_IDR_rt

When FEAT_RME is implemented, accesses on this interface are **RO**.

Component	Frame	Offset	Instance

MPAM	MPAMF_BASE_rl	0x0050	MPAMF_PARTID_NRW_IDR_rl

When FEAT_RME is implemented, accesses on this interface are **RO**.

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