PMPIDR4, Performance Monitors Peripheral Identification Register 4

The PMPIDR4 characteristics are:

Purpose

Provides information to identify a Performance Monitor component.

For more information, see 'About the Peripheral identification scheme'.

Configuration

This register is present only when FEAT_PMUv3_EXT is implemented and an implementation implements PMPIDR4. Otherwise, direct accesses to PMPIDR4 are res0.

If FEAT_DoPD is implemented, this register is in the Core power domain. If FEAT_DoPD is not implemented, this register is in the Debug power domain.

This register is required for CoreSight compliance.

Attributes

PMPIDR4 is a 32-bit register.

This register is part of the PMU block.

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	SIZE	DES_2

Bits [31:8]

Reserved, res0.

SIZE, bits [7:4]

Size of the component. Log_2 of the number of 4KB pages from the start of the component to the end of the component ID registers.

Reads as `0b0000`.

Access to this field is **RO**.

DES_2, bits [3:0]

Designer, JEP106 continuation code, least significant nibble. For Arm Limited, this field is `0b0100`.

This field has an implementation defined value.

Access to this field is **RO**.

Accessing PMPIDR4

Accesses to this register use the following encodings:

Accessible at offset 0xFD0 from PMU

- When FEAT_DoPD is implemented and !IsCorePowered(), accesses to this register generate an error response.
- Otherwise, accesses to this register are **RO**.

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