

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

CONTEXTIDR_EL1

CONTEXTIDR_EL1, bits [31:0]

Context ID. The value of CONTEXTIDR that is associated with the most recent PMU.PMPCSR sample. When the most recent PMU.PMPCSR sample is generated:

- If EL1 is using AArch64, then the Context ID is sampled from [CONTEXTIDR_EL1](#).
- If EL1 is using AArch32, then the Context ID is sampled from [CONTEXTIDR](#).
- If EL3 is implemented and is using AArch32, then [CONTEXTIDR](#) is a banked register and this register samples the current banked copy of [CONTEXTIDR](#) for the Security state that is associated with the most recent PMU.PMPCSR sample.

Because the value written to this register is an indirect read of CONTEXTIDR, it is constrained unpredictable whether this register is set to the original or new value if PMU.PMPCSR samples:

- An instruction that writes to CONTEXTIDR.
- The next Context synchronization event.
- Any instruction executed between these two instructions.

The reset behavior of this field is:

- On a Cold reset, this field resets to an architecturally unknown value.

Accessing PMCID1SR

implementation defined extensions to external debug might make the value of this register unknown, see 'Permitted behavior that might make the PC Sample-based profiling registers UNKNOWN'.

Accesses to this register use the following encodings:

Accessible at offset 0x208 from PMU

- When DoubleLockStatus(), or !IsCorePowered() or OSLockStatus(), accesses to this register generate an error response.
- Otherwise, accesses to this register are **RO**.

Accessible at offset 0x228 from PMU

- When DoubleLockStatus(), or !IsCorePowered() or OSLockStatus(), accesses to this register generate an error response.

- Otherwise, accesses to this register are **RO**.

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