AMCNTENCLR0, Activity Monitors Count Enable Clear Register 0

The AMCNTENCLR0 characteristics are:

Purpose

Disable control bits for the architected activity monitors event counters, AMEVCNTR0<n>.

Configuration

External register AMCNTENCLR0 bits [31:0] are architecturally mapped to AArch64 System register AMCNTENCLR0_EL0[31:0].

External register AMCNTENCLR0 bits [31:0] are architecturally mapped to AArch32 System register AMCNTENCLR0[31:0].

It is implementation defined whether AMCNTENCLR0 is implemented in the Core power domain or in the Debug power domain.

This register is present only when FEAT_AMUv1 is implemented. Otherwise, direct accesses to AMCNTENCLR0 are res0.

Attributes

AMCNTENCLR0 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	RAZ/WI	P3	P2	P1	P0

Bits [31:16]

Reserved, res0.

Bits [15:4]

Reserved, RAZ/WI.

This field is reserved for additional architected activity monitor event counters, which Arm might define in a future version of the Activity Monitors architecture.

P<n>, bit [n], for n = 3 to 0

Activity monitor event counter disable bit for AMEVCNTR0<n>.

Note

AMCGCR.CG0NC identifies the number of architected activity monitor event counters. In an implementation that includes FEAT_AMUv1, the number of architected activity monitor event counters is 4.

Possible values of each bit are:

P<n>	Meaning
0b0	When read, means that AMEVCNTR0<n> is disabled.
0b1	When read, means that AMEVCNTR0<n> is enabled.

The reset behavior of this field is:

- On an AMU reset, this field resets to 0.

Accessing AMCNTENCLR0

AMCNTENCLR0 can be accessed through the memory-mapped interfaces:

Component	Offset	Instance
AMU	0xC20	AMCNTENCLR0

Accesses on this interface are **RO**.

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