AMCNTENSET1, Activity Monitors Count Enable Set Register 1

The AMCNTENSET1 characteristics are:

Purpose

Enable control bits for the auxiliary activity monitors event counters, AMEVCNTR1<n>.

Configuration

External register AMCNTENSET1 bits [31:0] are architecturally mapped to AArch64 System register AMCNTENSET1_EL0[31:0].

External register AMCNTENSET1 bits [31:0] are architecturally mapped to AArch32 System register AMCNTENSET1[31:0].

It is implementation defined whether AMCNTENSET1 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 AMCNTENSET1 are res0.

Attributes

AMCNTENSET1 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																P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	P0

Bits [31:16]

Reserved, res0.

P<n>, bit [n], for n = 15 to 0

Activity monitor event counter enable bit for AMEVCNTR1<n>.

When N is less than 16, bits [15:N] are RAZ, where N is the value in AMCGCR.CG1NC.

Possible values of each bit are:

P<n>	Meaning
0b0	When read, means that AMEVCNTR1<n> is disabled.
0b1	When read, means that AMEVCNTR1<n> is enabled.

The reset behavior of this field is:

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

Accessing AMCNTENSET1

If the number of auxiliary activity monitor event counters implemented is zero, reads of AMCNTENSET1 are RAZ. Software must treat reserved accesses as res0. See 'Access requirements for reserved and unallocated registers'.

Note

The number of auxiliary activity monitor counters implemented is zero exactly when AMCFGR.NCG == 0b0000.

AMCNTENSET1 can be accessed through the memory-mapped interfaces:

Component	Offset	Instance
AMU	0xC04	AMCNTENSET1

Accesses on this interface are **RO**.

28/03/2023 16:02; 72747e43966d6b97dcbd230a1b3f0421d1ea3d94