AIDR_EL1, Auxiliary ID Register

The AIDR_EL1 characteristics are:

Purpose

Provides implementation defined identification information.

The value of this register must be interpreted in conjunction with the value of MIDR_EL1.

Configuration

AArch64 System register AIDR_EL1 bits [31:0] are architecturally mapped to AArch32 System register AIDR[31:0].

Attributes

AIDR_EL1 is a 64-bit register.

Field descriptions

63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
IMPLEMENTATION DEFINED																															
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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

IMPLEMENTATION DEFINED, bits [63:0]

implementation defined.

Accessing AIDR_EL1

Accesses to this register use the following encodings in the System register encoding space:

```
MRS <Xt>, AIDR_EL1
```

op0	op1	CRn	CRm	op2
0b11	0b001	0b0000	0b0000	0b111

```
if PSTATE.EL == EL0 then
```

```
    if IsFeatureImplemented(FEAT_IDST) then
        if EL2Enabled() && HCR_EL2.TGE == '1' then
            AArch64.SystemAccessTrap(EL2, 0x18);
        else
            AArch64.SystemAccessTrap(EL1, 0x18);
    else
        UNDEFINED;
elsif PSTATE.EL == EL1 then
    if EL2Enabled() && HCR_EL2.TID1 == '1' then
        AArch64.SystemAccessTrap(EL2, 0x18);
    elsif EL2Enabled() &&
IsFeatureImplemented(FEAT_FGT) && (!HaveEL(EL3) ||
SCR_EL3.FGTEn == '1') && HFGRTR_EL2.AIDR_EL1 == '1'
then
        AArch64.SystemAccessTrap(EL2, 0x18);
    else
        X[t, 64] = AIDR_EL1;
elsif PSTATE.EL == EL2 then
    X[t, 64] = AIDR_EL1;
elsif PSTATE.EL == EL3 then
    X[t, 64] = AIDR_EL1;
```

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