

ID_AA64AFR1_EL1, AArch64 Auxiliary Feature Register 1

The ID_AA64AFR1_EL1 characteristics are:

Purpose

Reserved for future expansion of information about the implementation defined features of the PE in AArch64 state.

For general information about the interpretation of the ID registers, see 'Principles of the ID scheme for fields in ID registers'.

Configuration

There are no configuration notes.

Attributes

ID_AA64AFR1_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
RES0																															
RES0																															
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

Bits [63:0]

Reserved, res0.

Accessing ID_AA64AFR1_EL1

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

MRS <Xt>, ID_AA64AFR1_EL1

op0	op1	CRn	CRm	op2
0b11	0b000	0b0000	0b0101	0b101

```

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.TID3 == '1' then
            AArch64.SystemAccessTrap(EL2, 0x18);
        else
            X[t, 64] = ID_AA64AFR1_EL1;
    elsif PSTATE.EL == EL2 then
        X[t, 64] = ID_AA64AFR1_EL1;
    elsif PSTATE.EL == EL3 then
        X[t, 64] = ID_AA64AFR1_EL1;

```

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