ERRIDR_EL1, Error Record ID Register

The ERRIDR_EL1 characteristics are:

Purpose

Defines the highest numbered index of the error records that can be accessed through the Error Record System registers.

Configuration

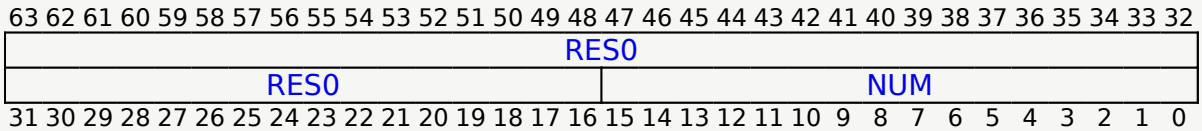
AArch64 System register ERRIDR_EL1 bits [31:0] are architecturally mapped to AArch32 System register ERRIDR[31:0].

This register is present only when FEAT_RAS is implemented. Otherwise, direct accesses to ERRIDR_EL1 are undefined.

Attributes

ERRIDR_EL1 is a 64-bit register.

Field descriptions



Bits [63:16]

Reserved, res0.

NUM, bits [15:0]

Highest numbered index of the records that can be accessed through the Error Record System registers plus one. Zero indicates no records can be accessed through the Error Record System registers.

Each implemented record is owned by a node. A node might own multiple records.

Accessing ERRIDR_EL1

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

MRS <Xt>, ERRIDR_EL1

op0	op1	CRn	CRm	op2
0b11	0b000	0b0101	0b0011	0b000

```
if PSTATE.EL == EL0 then
    UNDEFINED;
elsif PSTATE.EL == EL1 then
    if Halted() && HaveEL(EL3) && EDSCR.SDD == '1'
&& boolean IMPLEMENTATION_DEFINED "EL3 trap priority
when SDD == '1'" && SCR_EL3.TERR == '1' then
        UNDEFINED;
    elsif EL2Enabled() && HCR_EL2.TERR == '1' then
        AArch64.SystemAccessTrap(EL2, 0x18);
    elsif EL2Enabled() &&
IsFeatureImplemented(FEAT_FGT) && (!HaveEL(EL3) ||
SCR_EL3.FGTEn == '1') && HFGRTR_EL2.ERRIDR_EL1 ==
'1' then
        AArch64.SystemAccessTrap(EL2, 0x18);
    elsif HaveEL(EL3) && SCR_EL3.TERR == '1' then
        if Halted() && EDSCR.SDD == '1' then
            UNDEFINED;
        else
            AArch64.SystemAccessTrap(EL3, 0x18);
    else
        X[t, 64] = ERRIDR_EL1;
elsif PSTATE.EL == EL2 then
    if Halted() && HaveEL(EL3) && EDSCR.SDD == '1'
&& boolean IMPLEMENTATION_DEFINED "EL3 trap priority
when SDD == '1'" && SCR_EL3.TERR == '1' then
        UNDEFINED;
    elsif HaveEL(EL3) && SCR_EL3.TERR == '1' then
        if Halted() && EDSCR.SDD == '1' then
            UNDEFINED;
        else
            AArch64.SystemAccessTrap(EL3, 0x18);
    else
        X[t, 64] = ERRIDR_EL1;
elsif PSTATE.EL == EL3 then
    X[t, 64] = ERRIDR_EL1;
```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