RVBAR_EL2, Reset Vector Base Address Register (if EL3 not implemented)

The RVBAR_EL2 characteristics are:

Purpose

If EL2 is the highest Exception level implemented, contains the implementation defined address that execution starts from after reset when executing in AArch64 state.

Configuration

This register is present only when the highest implemented Exception level is EL2. Otherwise, direct accesses to RVBAR_EL2 are undefined.

Attributes

RVBAR_EL2 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
ResetAddress																															
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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

ResetAddress, bits [63:0]

The implementation defined address that execution starts from after reset when executing in 64-bit state. Bits[1:0] of this register are 00, as this address must be aligned, and the address must be within the physical address size supported by the PE.

This field has an implementation defined value.

Access to this field is **RO**.

Accessing RVBAR_EL2

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

MRS <Xt>, RVBAR_EL2

op0	op1	CRn	CRm	op2
0b11	0b100	0b1100	0b0000	0b001

```
if PSTATE.EL == EL1 && EL2Enabled() &&
IsHighestEL(EL2) && HCR_EL2.NV == '1' then
    AArch64.SystemAccessTrap(EL2, 0x18);
elsif PSTATE.EL == EL2 && IsHighestEL(EL2) then
    X[t, 64] = RVBAR_EL2;
else
    UNDEFINED;
```

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