

ACTLR_EL3, Auxiliary Control Register (EL3)

The ACTLR_EL3 characteristics are:

Purpose

Provides implementation defined configuration and control options for EL3.

Configuration

This register is present only when EL3 is implemented. Otherwise, direct accesses to ACTLR_EL3 are undefined.

Attributes

ACTLR_EL3 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																															
IMPLEMENTATION DEFINED																															
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.

The reset behavior of this field is:

- On a Warm reset, this field resets to an architecturally unknown value.

Accessing ACTLR_EL3

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

MRS <Xt>, ACTLR_EL3

op0	op1	CRn	CRm	op2
0b11	0b110	0b0001	0b0000	0b001

```

if PSTATE.EL == EL0 then
    UNDEFINED;
elsif PSTATE.EL == EL1 then
    UNDEFINED;
elsif PSTATE.EL == EL2 then
    UNDEFINED;
elsif PSTATE.EL == EL3 then
    X[t, 64] = ACTLR_EL3;

```

MSR ACTLR_EL3, <Xt>

op0	op1	CRn	CRm	op2
0b11	0b110	0b0001	0b0000	0b001

```

if PSTATE.EL == EL0 then
    UNDEFINED;
elsif PSTATE.EL == EL1 then
    UNDEFINED;
elsif PSTATE.EL == EL2 then
    UNDEFINED;
elsif PSTATE.EL == EL3 then
    ACTLR_EL3 = X[t, 64];

```

[AArch32
Registers](#)

[AArch64
Registers](#)

[AArch32
Instructions](#)

[AArch64
Instructions](#)

[Index by
Encoding](#)

[External
Registers](#)

28/03/2023 16:02; 72747e43966d6b97dcbd230a1b3f0421d1ea3d94

Copyright Â© 2010-2023 Arm Limited or its affiliates. All rights reserved. This document is Non-Confidential.