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LDARB

Load-Acquire Register Byte derives an address from a base register value, loads a byte from memory, zero-extends it and writes it to a register. The instruction also has memory ordering semantics as described in *Load-Acquire*, *Store-Release*. For information about memory accesses, see *Load/Store addressing modes*.

Note

For this instruction, if the destination is WZR/XZR, it is impossible for software to observe the presence of the acquire semantic other than its effect on the arrival at endpoints.

```
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

0 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 (1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)

size

L

Rs

00

Rt2
```

```
integer n = UInt(Rn);
integer t = UInt(Rt);
boolean tagchecked = n != 31;
```

Assembler Symbols

<Wt> Is the 32-bit name of the general-purpose register to be

transferred, encoded in the "Rt" field.

<Xn|SP> Is the 64-bit name of the general-purpose base register or

stack pointer, encoded in the "Rn" field.

Operation

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Operational information

If PSTATE.DIT is 1, the timing of this instruction is insensitive to the value of the data being loaded or stored.

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