STCLRB, STCLRLB

Atomic bit clear on byte in memory, without return, atomically loads an 8-bit byte from memory, performs a bitwise AND with the complement of the value held in a register on it, and stores the result back to memory.

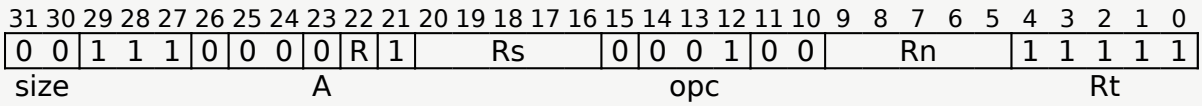
- `STCLRB` does not have release semantics.
- `STCLRLB` stores to memory with release semantics, as described in *Load-Acquire, Store-Release*.

For information about memory accesses, see *Load/Store addressing modes*.

This is an alias of LDCLRB, LDCLRAB, LDCLRALB, LDCLRLB. This means:

- The encodings in this description are named to match the encodings of LDCLRB, LDCLRAB, LDCLRALB, LDCLRLB.
- The description of LDCLRB, LDCLRAB, LDCLRALB, LDCLRLB gives the operational pseudocode, any constrained unpredictable behavior, and any operational information for this instruction.

Integer
(FEAT_LSE)



No memory ordering (R == 0)

```
STCLRB <Ws>, [<Xn|SP>]
```

is equivalent to

```
LDCLRB <Ws>, WZR, [<Xn|SP>]
```

and is always the preferred disassembly.

Release (R == 1)

```
STCLRLB <Ws>, [<Xn|SP>]
```

is equivalent to

```
LDCLRLB <Ws>, WZR, [<Xn|SP>]
```

and is always the preferred disassembly.

Assembler Symbols

<Ws>	Is the 32-bit name of the general-purpose register holding the data value to be operated on with the contents of the memory location, encoded in the "Rs" field.
<Xn|SP>	Is the 64-bit name of the general-purpose base register or stack pointer, encoded in the "Rn" field.

Operation

The description of LDCLRB, LDCLRAB, LDCLRALB, LDCLRLB gives the operational pseudocode for this instruction.

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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