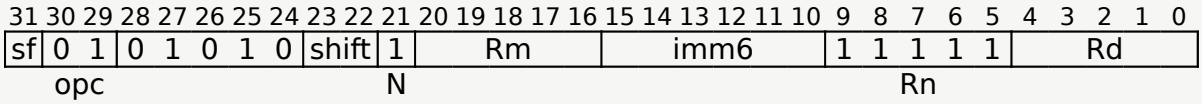
MVN

Bitwise NOT writes the bitwise inverse of a register value to the destination register.

This is an alias of ORN (shifted register). This means:

- The encodings in this description are named to match the encodings of ORN (shifted register).
- The description of ORN (shifted register) gives the operational pseudocode, any constrained unpredictable behavior, and any operational information for this instruction.



32-bit (sf == 0)

```
MVN <Wd>, <Wm>{, <shift> #<amount>}
```

is equivalent to

```
ORN <Wd>, WZR, <Wm>{, <shift> #<amount>}
```

and is always the preferred disassembly.

64-bit (sf == 1)

```
MVN <Xd>, <Xm>{, <shift> #<amount>}
```

is equivalent to

```
ORN <Xd>, XZR, <Xm>{, <shift> #<amount>}
```

and is always the preferred disassembly.

Assembler Symbols

<Wd>	Is the 32-bit name of the general-purpose destination register, encoded in the "Rd" field.
<Wm>	Is the 32-bit name of the general-purpose source register, encoded in the "Rm" field.
<Xd>	Is the 64-bit name of the general-purpose destination register, encoded in the "Rd" field.
<Xm>	Is the 64-bit name of the general-purpose source register, encoded in the "Rm" field.

<shift>

Is the optional shift to be applied to the final source, defaulting to LSL and encoded in “shift”:

shift	<shift>
00	LSL
01	LSR
10	ASR
11	ROR

<amount>

For the 32-bit variant: is the shift amount, in the range 0 to 31, defaulting to 0 and encoded in the "imm6" field.

For the 64-bit variant: is the shift amount, in the range 0 to 63, defaulting to 0 and encoded in the "imm6" field,

Operation

The description of ORN (shifted register) gives the operational pseudocode for this instruction.

Operational information

If PSTATE.DIT is 1:

- The execution time of this instruction is independent of:
  - The values of the data supplied in any of its registers.
  - The values of the NZCV flags.
- The response of this instruction to asynchronous exceptions does not vary based on:
  - The values of the data supplied in any of its registers.
  - The values of the NZCV flags.

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