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Pseu

MOV (register)

Move (register) copies the value in a source register to the destination register.

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

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

```
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  

sf 0 1 0 1 0 1 0 0 0 0 Rm 0 0 0 0 0 1 1 1 1 1 Rd

opc shift N imm6 Rn
```

32-bit (sf == 0)

```
MOV <Wd>, <Wm> is equivalent to
```

and is always the preferred disassembly.

64-bit (sf == 1)

```
MOV <Xd>, <Xm>
```

is equivalent to

and is always the preferred disassembly.

Assembler Symbols

<wd></wd>	Is the 32-bit name of the general-purpose destination register, encoded in the "Rd" field.
<wm></wm>	Is the 32-bit name of the general-purpose source register, encoded in the "Rm" field.
<xd></xd>	Is the 64-bit name of the general-purpose destination register, encoded in the "Rd" field.
<xm></xm>	Is the 64-bit name of the general-purpose source register, encoded in the "Rm" field.

Operation

The description of <u>ORR (shifted register)</u> 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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