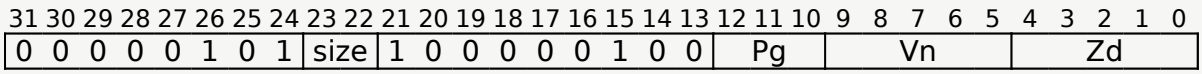
MOV (SIMD&FP scalar, predicated)

Move SIMD&FP scalar register to vector elements (predicated)

Move the SIMD & floating-point scalar source register to each active element in the destination vector. Inactive elements in the destination vector register remain unmodified.

This is an alias of CPY (SIMD&FP scalar). This means:

- The encodings in this description are named to match the encodings of CPY (SIMD&FP scalar).
- The description of CPY (SIMD&FP scalar) gives the operational pseudocode, any constrained unpredictable behavior, and any operational information for this instruction.




```
MOV <Zd>.<T>, <Pg>/M, <V><n>
```

is equivalent to

```
CPY <Zd>.<T>, <Pg>/M, <V><n>
```

and is always the preferred disassembly.

Assembler Symbols

<Zd> Is the name of the destination scalable vector register, encoded in the "Zd" field.

<T> Is the size specifier, encoded in “size”:

size	<T>
00	B
01	H
10	S
11	D

<Pg> Is the name of the governing scalable predicate register P0-P7, encoded in the "Pg" field.

<V>

Is a width specifier, encoded in “size”:

size	<V>
00	B
01	H
10	S
11	D

<n>

Is the number [0-31] of the source SIMD&FP register, encoded in the "Vn" field.

Operation

The description of CPY (SIMD&FP scalar) gives the operational pseudocode for this instruction.

Operational information

If FEAT_SVE2 is implemented or FEAT_SME is implemented, then if PSTATE.DIT is 1:

- The execution time of this instruction is independent of:
  - The values of the data supplied in any of its operand registers when its governing predicate register contains the same value for each execution.
  - 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 operand registers when its governing predicate register contains the same value for each execution.
  - The values of the NZCV flags.

This instruction might be immediately preceded in program order by a `MOVPRFX` instruction. The `MOVPRFX` instruction must conform to all of the following requirements, otherwise the behavior of the `MOVPRFX` and this instruction is unpredictable:

- The `MOVPRFX` instruction must be unpredicated, or be predicated using the same governing predicate register and source element size as this instruction.
- The `MOVPRFX` instruction must specify the same destination register as this instruction.
- The destination register must not refer to architectural register state referenced by any other source operand register of this instruction.

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