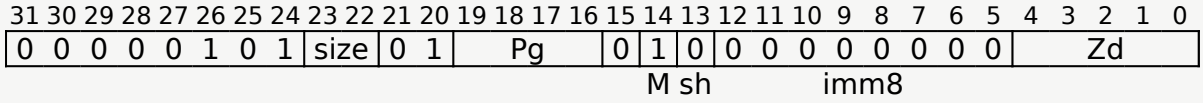
FMOV (zero, predicated)

Move floating-point +0.0 to vector elements (predicated)

Move floating-point constant +0.0 to each active element in the destination vector. Inactive elements in the destination vector register remain unmodified.

This is a pseudo-instruction of CPY (immediate, merging). This means:

- The encodings in this description are named to match the encodings of CPY (immediate, merging).
- The assembler syntax is used only for assembly, and is not used on disassembly.
- The description of CPY (immediate, merging) gives the operational pseudocode, any constrained unpredictable behavior, and any operational information for this instruction.




```
FMOV <Zd>.<T>, <Pg>/M, #0.0
```

is equivalent to

```
CPY <Zd>.<T>, <Pg>/M, #0
```

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	RESERVED
01	H
10	S
11	D

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

Operation

The description of CPY (immediate, merging) 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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