

# *StreamDevice: bi Records*

## Normal Operation

Depending on the format type, different record fields are used for output and input. The variable  $x$  stands for the written or read value.

DOUBLE format (e.g. %f):  
Not allowed.

LONG format (e.g. %i):

Output:  $x=RVAL$

Input:  $RVAL=x\&MASK$

$MASK$  can be set in the record definition. Stream Device does not set it. If  $MASK==0$ , it is ignored (i.e.  $RVAL=x$ ). The record sets  $VAL=(RVAL!=0)$ , i.e. 1 if  $RVAL!=0$  and 0 if  $RVAL==0$ .

ENUM format (e.g. %{}):

Output:  $x=VAL$

Input:  $VAL=(x!=0)$

STRING format (e.g. %s):

Output: Depending on  $VAL$ ,  $ZNAM$  or  $ONAM$  is written, i.e.  $x=VAL?ONAM:ZNAM$ .

Input: If input is equal to  $ZNAM$  or  $ONAM$ ,  $VAL$  is set accordingly. Other input strings are not accepted.

## Initialization

During initialization, the `@init` handler is executed, if present. All format converters work like in normal operation.

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