

StreamDevice: mbboDirect 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):

If $MASK == 0$ (because NOBT is not set):

Output: $x = VAL$

Input: $VAL = x$

If $MASK != 0$:

Output: $x = RVAL \& MASK$

Input: $RBV = x \& MASK$

$MASK$ is initialized to NOBT 1-bits shifted left by SHFT.

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

Not allowed.

STRING format (e.g. %s):

Not allowed.

Initialization

During initialization, the @init handler is executed, if present. In contrast to normal operation, input is put to RVAL as well as to RBV and converted by the record if $MASK != 0$.

aai aao ai ao bi bo mbbi mbbo mbbiDirect longin longout stringin stringout waveform calcout scalcout

Dirk Zimoch, 2005