

Festo_Positioning_Basic library – Halt vs. QuickStop vs. Abort

Commissioning of a selected system with the Festo_Positioning_Basic library is explained step by step, so that it's successfully integrated into the user program.

FPosB

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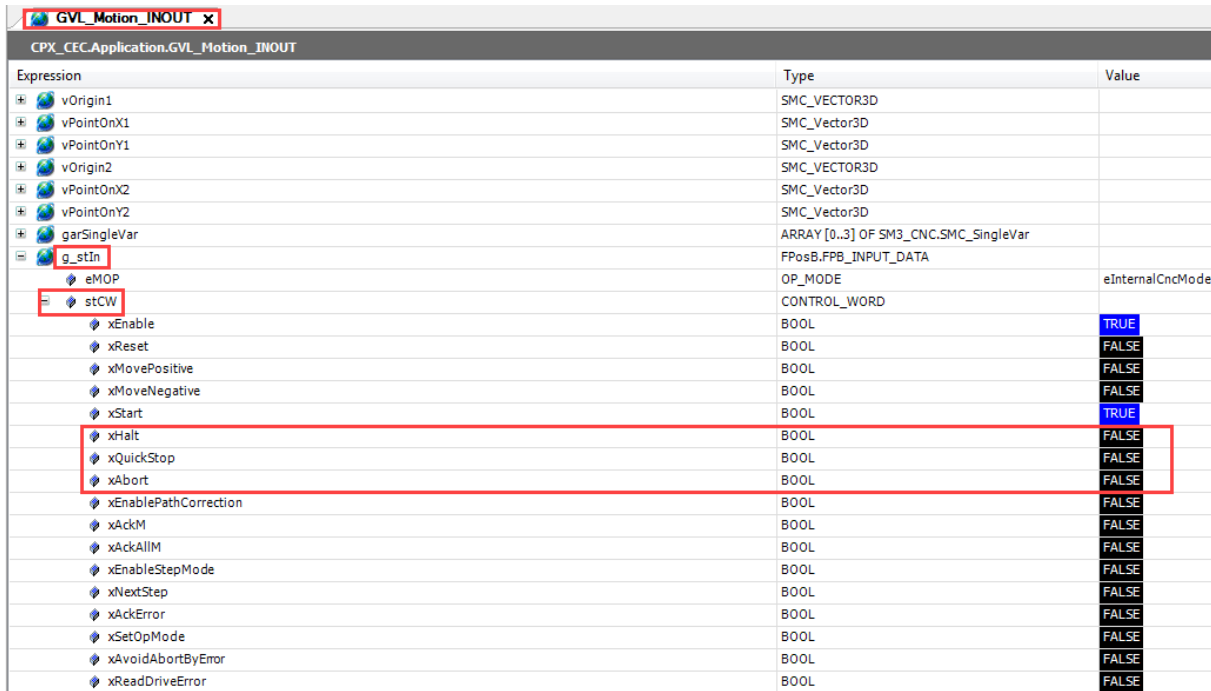
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1 Halt vs. QuickStop vs. Abort

There are 3 different ways to interrupt an ongoing process, which can be for instance a point to point movement or a started CNC.

Depending on the situation and requirements the following 3 inputs are available:

- xHalt
- xQuickStop
- xAbort



Expression	Type	Value
vOrigin1	SMC_VECTOR3D	
vPointOnX1	SMC_Vector3D	
vPointOnY1	SMC_Vector3D	
vOrigin2	SMC_VECTOR3D	
vPointOnX2	SMC_Vector3D	
vPointOnY2	SMC_Vector3D	
garSingleVar	ARRAY [0..3] OF SM3_CNC.SMC_SingleVar	
g_stIn	FPoSB.FPB_INPUT_DATA	
eMOP	OP_MODE	eInternalCncMode
stCW	CONTROL_WORD	
xEnable	BOOL	TRUE
xReset	BOOL	FALSE
xMovePositive	BOOL	FALSE
xMoveNegative	BOOL	FALSE
xStart	BOOL	TRUE
xHalt	BOOL	FALSE
xQuickStop	BOOL	FALSE
xAbsort	BOOL	FALSE
xEnablePathCorrection	BOOL	FALSE
xAckM	BOOL	FALSE
xAckAllIM	BOOL	FALSE
xEnableStepMode	BOOL	FALSE
xNextStep	BOOL	FALSE
xAckError	BOOL	FALSE
xSetOpMode	BOOL	FALSE
xAvoidAbortByError	BOOL	FALSE
xReadDriveError	BOOL	FALSE

Halt: CNC stops with the deceleration used in the active CNC. The CNC stays active and can be continued.

QuickStop: CNC stops with the QuickStop-deceleration and QuickStopJerk, which is defined in the GVL_Config -> g_stDynLimits -> lrQuickStopDec and lrQuickStopJerk.

The CNC stays active and can be continued.

Abort: CNC stops with the QuickStop-deceleration and QuickStopJerk, which is defined in the GVL_Config -> g_stDynLimits -> lrQuickStopDec and lrQuickStopJerk.

The CNC is aborted and cannot be continued.

Function	Deceleration	CNC
xHalt	Value from the active CNC	Stays active
xQuickStop	QuickStopDec (Config->Dynamic)	Stays active
xAbsort	QuickStopDec (Config->Dynamic)	Aborted