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\* (c) 2011 Edouard Tisserant

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\* Fake semaphore support, for non preemptive implementation.

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\*)

FUNCTION\_BLOCK SEMA

VAR\_INPUT

CLAIM : BOOL;

RELEASE : BOOL;

END\_VAR

VAR\_OUTPUT

BUSY : BOOL;

END\_VAR

VAR

Q\_INTERNAL : BOOL;

END\_VAR

Q\_INTERNAL := CLAIM OR ( Q\_INTERNAL AND (NOT RELEASE));

BUSY := Q\_INTERNAL;

END\_FUNCTION\_BLOCK