(\* Following taken directly from the IEC 61131.3 draft standard \*)

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\* An IEC 61131-3 IL and ST compiler.

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\* Based on the

\* FINAL DRAFT - IEC 61131-3, 2nd Ed. (2001-12-10)

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\* This is part of the library conatining the functions

\* and function blocks defined in the standard.

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\* Edge detection function blocks

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FUNCTION\_BLOCK R\_TRIG

VAR\_INPUT CLK: BOOL; END\_VAR

VAR\_OUTPUT Q: BOOL; END\_VAR

VAR RETAIN M: BOOL; END\_VAR

Q := CLK AND NOT M;

M := CLK;

END\_FUNCTION\_BLOCK

FUNCTION\_BLOCK F\_TRIG

VAR\_INPUT CLK: BOOL; END\_VAR

VAR\_OUTPUT Q: BOOL; END\_VAR

VAR RETAIN M: BOOL; END\_VAR

Q := NOT CLK AND NOT M;

M := NOT CLK;

END\_FUNCTION\_BLOCK