



customcodecrafters

Press, Hold or Dbl Press

GENERAL INFORMATION

SIMPLWINDOWS FILE NAME:	C3 press hold or dblPress.umc
CATEGORY:	Digital Logic
CURRENT VERSION:	1.00
PROGRAMMER:	Walt Yao
SUMMARY:	Detects press gestures for press, hold and double press
SYSTEMBUILDER COMPATIBLE	No
GENERAL NOTES:	This module measures the time a button has been held for or repeatedly pressed within a set time. Allows 3 different gestures, triggering 3 different events from one button
REQUIRED AUXILIARY FILES:	None

INPUT DEFINITIONS

input_push	D	Initiate an input push by setting to high, should be tied right to a button under normal conditions
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OUTPUT DEFINITIONS

output_press	D	Will pulse high for 1t if input_push is held high then low within the time valued in hold_time . This output has a delay of dblTap_time from the point that the input_push is pushed because the module monitors for double pressing gestures in order to decide if the gesture was a single or double press
output_hold	D	Will pulse high for 1t if input_push is held high past the time valued in hold_time
output_dblPress	D	Will pulse high for 1t if input_press is tapped twice in succession within the time specified by dblTap_time

PARAMETERS

hold_time	(s)	Number of seconds after input_push is high until output_hold is pulsed high. Default to 0.5s
dblTap_time	(s)	Number of seconds between the first and second press of input_push that must be met to register a double press. Default and minimum value is 0.35s

REVISION NOTES

1.00	WY	<ul style="list-style-type: none">Initial release
COMMENTS:		



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