

marswrmx

		<p>marswrmx.mexmaci64 is a Matlab mex driver for Fortran subroutine MARSWR</p> <p>Ref.: NRL Report 7448</p> <p>A Fortran Computer Program to Calculate the Range of a Pulse Radar</p> <p>L. V. Blake August 28, 1972</p> <p>Fehlner's MARCUM subroutine renamed MARSWR and adapted by L.V. Blake for the RGCALC program</p> <p>Matlab 2022a update 7 Intel oneapi 2023.2.0 (ifort) fortran compiler Mac OS Monterey v. 12.6.8</p>					
	marswrmx	marswrmx					
	Input array	Output array	Data type	Fortran/mex variable	Parameter description	Value	Note
	x(1,1)	y(1,1)	Real	SNDB	Signal-to-Noise Ratio (dB)		
	x(1,2)	y(1,2)	Integer	N	Number of Pulses Integrated	> 0	
	x(1,3)	y(1,3)	Real	FA	False-Alarm Probability (Negative Power of Ten)	> 0	
	x(1,4)	y(1,4)	Integer	KASE	Swerling Fluctuation Case	0-4	
		y(2,1)	Real	PN	Probability of Detection		
		y(2,2)	Real	YB	Detector Threshold(dB)		
		y(2,3)	Integer	IERR	Error flag - Fortran MARSWR input paramaters range error	0-1	0 = no error 1 = Input parameter range error (PN, FA or KASE)