Block Parameters: IMU		×
Simulate accelerometer, gyroscope, and magnetometer sensors. The block outputs sensor measurements based on device motion. The inputs are in the local navigation frame. The outputs are in the local sensor body frame. The parameters on the Accelerometer, Gyroscope and Magnetometer tabs can be set to match values on a sensor datasheet.		
Parameters Accelerometer Gyroscope Magnetometer		
Maximum readings (μΤ):	1000]:
Resolution ((μT)/LSB):	0.1]:
Constant offset bias (μT):	0	<u></u>
Axes skew (%):	[0 0 0]]:
Noise		
White Noise PSD ((μT)/√Hz):	[0.0424 0.0424 0.0424]	_]:
Bias instability (μΤ):	[0 0 0]	_]:
Bias instability filter numerator coefficients:	fractalcoef().Numerator	1 :
Bias instability filter denominator coefficients:	fractalcoef().Denominator [1,-0.5]	<u> </u>
Random walk ((µT)*√Hz):	[0 0 0]	
Noise type:	double-sided	~
Temperature Effects		
Bias from temperature ((µT)/°C):	[0 0 0]	
Temperature scale factor (%/°C):	[0 0 0]	
	OK Cancel Help Ap	oply