Block Parameters: IMU		×
IMU		
Simulate accelerometer, gyroscope, and magnetomete	er 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 (rad/s):	4.3633	
Resolution ((rad/s)/LSB):	0.0011	
Constant offset bias (rad/s):	[0.0545 0.0545 0.0545]	
Axes skew (%):	1.5	
Bias from acceleration ((rad/s)/(m/s²)):	[0 0 0]	
Noise		
Angle random walk ((rad/s)/√Hz):	[0.00043633 0.00043633 0.00043633]	
Bias instability (rad/s):	[0 0 0]	
Bias instability filter numerator coefficients:	fractalcoef().Numerator	
Bias instability filter denominator coefficients:	fractalcoef().Denominator [1,-0.5]	
Rate random walk ((rad/s)*√Hz):	[0 0 0]	
Noise type:	double-sided v	
Temperature Effects		
Bias from temperature ((rad/s)/°C):	[0 0 0]	
Temperature scale factor (%/°C):	[0 0 0]	
	OK Cancel Help Apply	