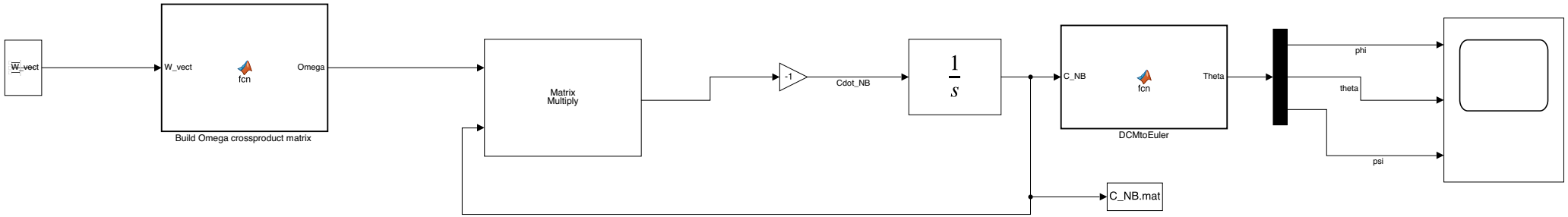
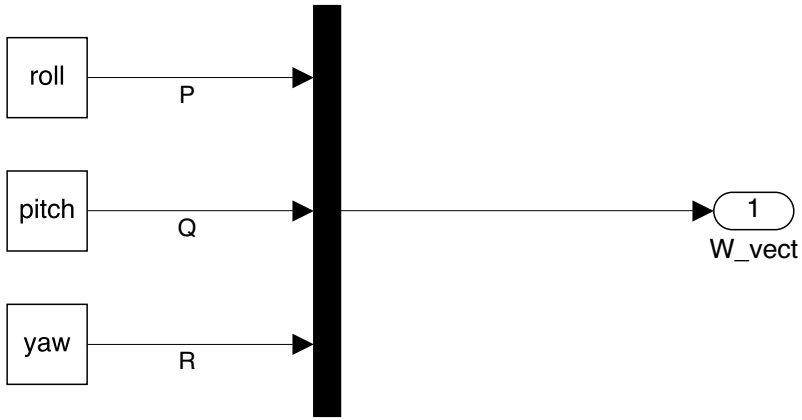

W_vect
W_vect
fcn
Omega
Build Omega crossproduct matrix
Matrix
Multiply
-1
Cdot_NB
1
s
C_NB
fcn
Theta
DCMtoEuler
phi
theta
psi
C_NB.mat

```
function Omega = fcn(W_vect)

p = W_vect(1);
q = W_vect(2);
r = W_vect(3);


Omega = [0 -r q;
    r 0 -p;
    -q p 0];
```

```
function Theta = fcn(C_NB)

c11 = C_NB(1,1);
c12 = C_NB(1,2);
c13 = C_NB(1,3);
c23 = C_NB(2,3);
c33 = C_NB(3,3);

roll = atan2(c23,c33);
pitch = -asin(c13);
yaw = atan2(c12,c11);

Theta = [roll;pitch;yaw];
```


roll
P
pitch
Q
yaw
R
1
W_vect

Sample Times for 'PoissonKinematics'

Color	Annotation	Description	Value
	Cont	Continuous	0
	FiM	Fixed in Minor Step	[0,1]
	Inf	Constant	Inf