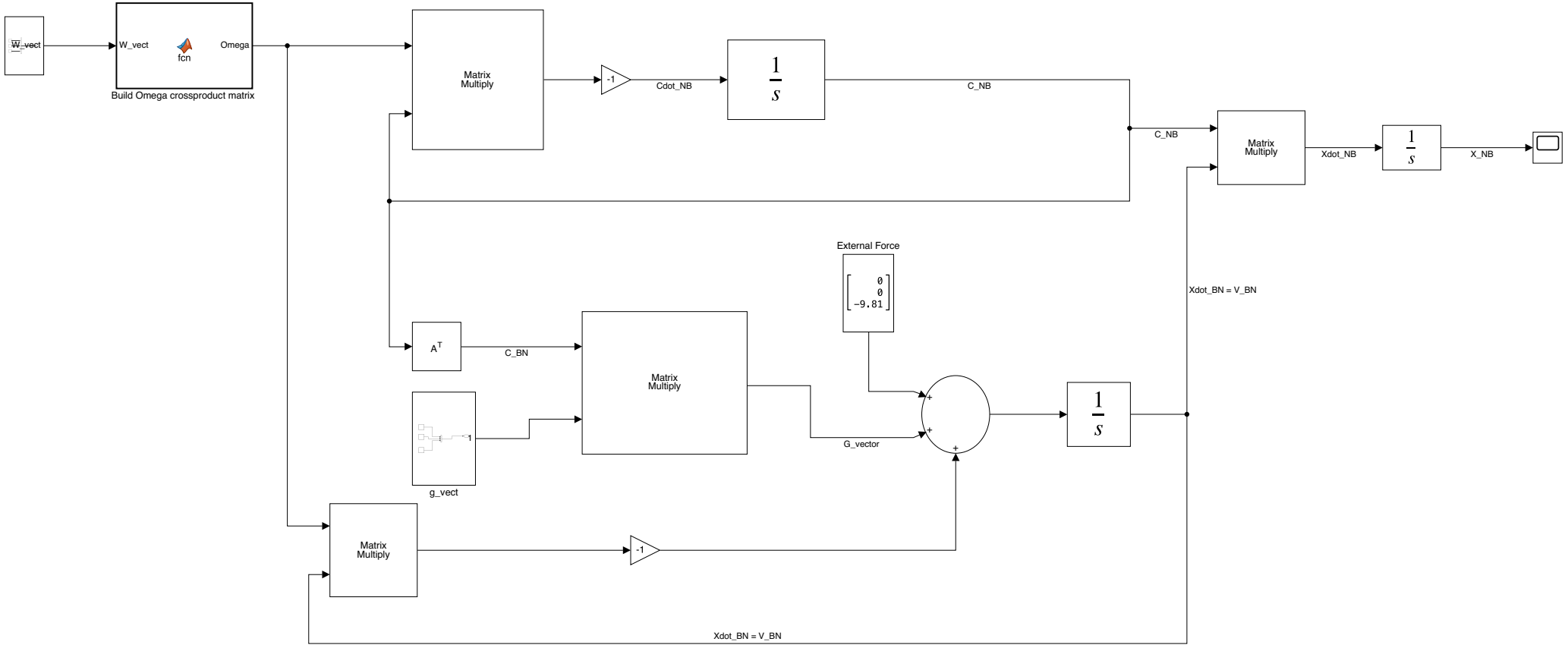
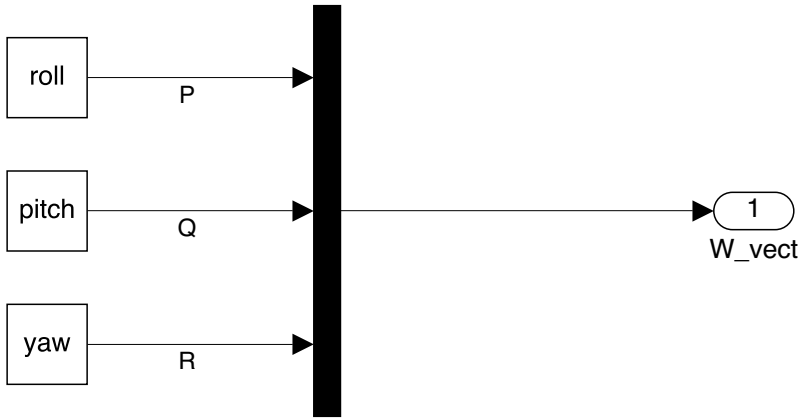
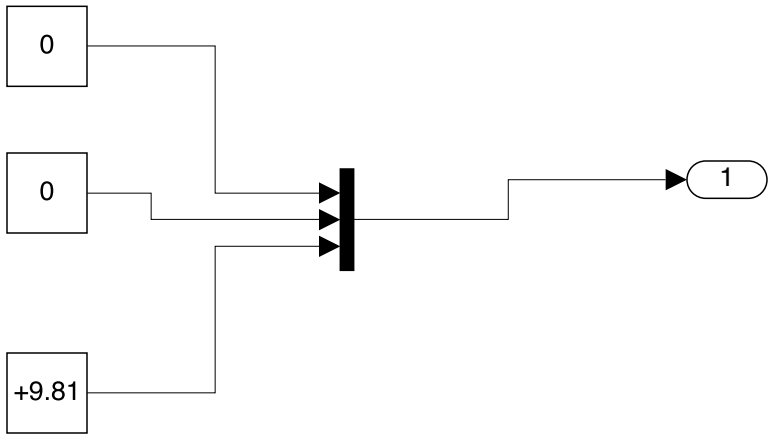

W_vect
W_vect
fcn
Omega
Build Omega crossproduct matrix
Matrix Multiply
-1
Cdot_NB
1/s
C_NB
C_NB
Matrix Multiply
Xdot_NB
1/s
X_NB
External Force
0
0
-9.81
Xdot_BN = V_BN
A^T
C_BN
Matrix Multiply
1
g_vect
G_vector
1/s
Matrix Multiply
-1
Xdot_BN = V_BN

```
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];
```


roll
P
pitch
Q
yaw
R
1
W_vect


0
0
+9.81
1

**Sample Times for 'problem2'**

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