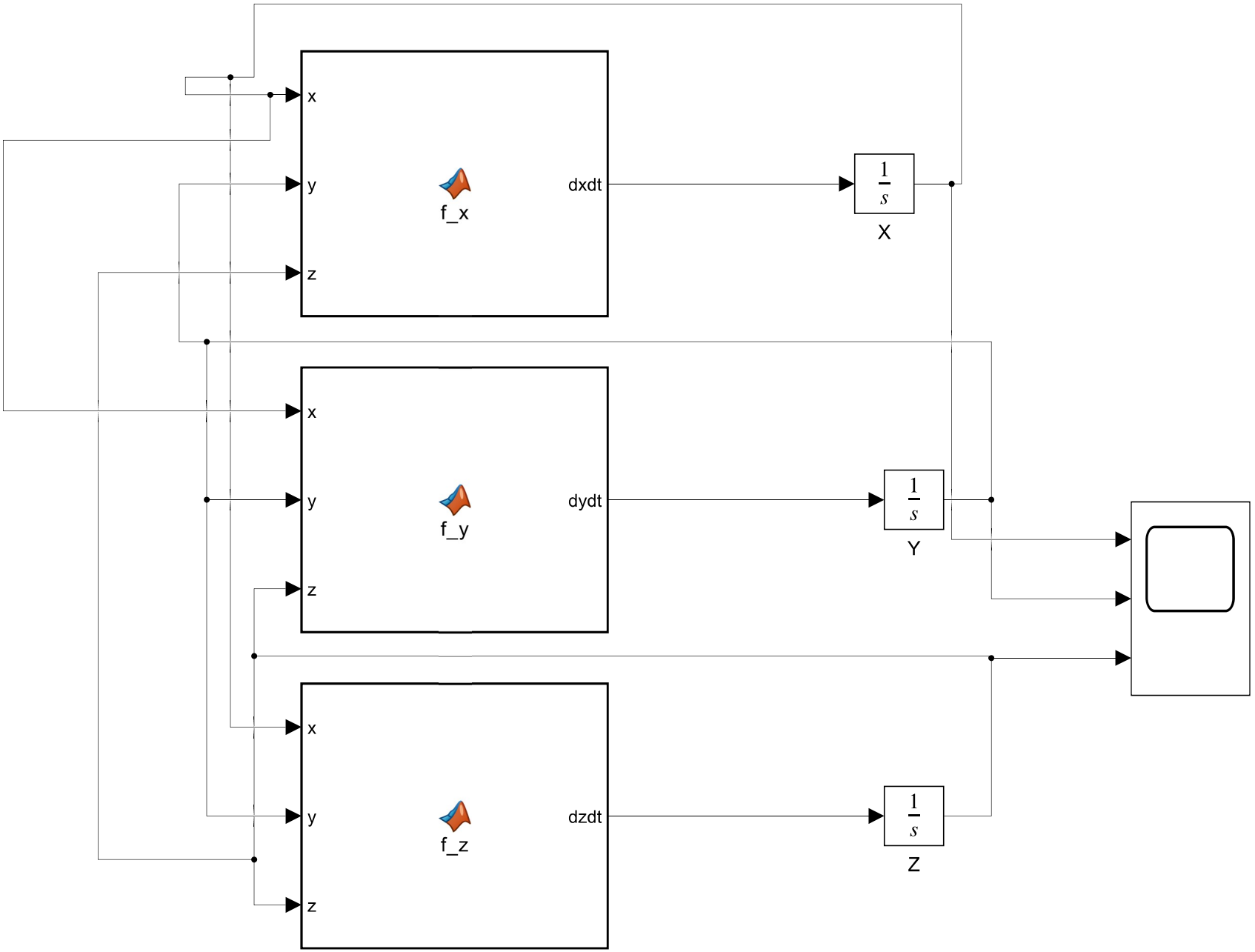
x
y
z
f_x
dxdt
1
s
X
x
y
z
f_y
dydt
1
s
Y
x
y
z
f_z
dzdt
1
s
Z

```
function dxdt = f_x(x, y, z)
    kx = 2;
    x0e = 10;
    alpha = 10;
    beta = 2;
    k1 = alpha - beta * z;
    dxdt = kx * (x0e - x) - k1 * x * y;
end
```

```
function dydt = f_y(x, y, z)
    ky = 3;
    y0e = 6;
    alpha = 10;
    beta = 2;
    k1 = alpha - beta * z;
    dydt = ky * (y0e - y) - k1 * x * y;
end
```

```
function dzdt = f_z(x, y, z)
    alpha = 10;
    beta = 2;
    gamma = 2;
    k1 = alpha - beta * z;
    dzdt = k1 * x * y - gamma * z;
end
```

Sample Times for 'hw2sim2'

Color	Annotation	Description	Value
	Cont	Continuous	0
	D1	Discrete 1	1.1574e-05

Page		System Name
1		hw2sim2
2	(SF)	hw2sim2/MATLAB Function
3	(SF)	hw2sim2/MATLAB Function1
4	(SF)	hw2sim2/MATLAB Function2

Other

1	Sample Time Legend