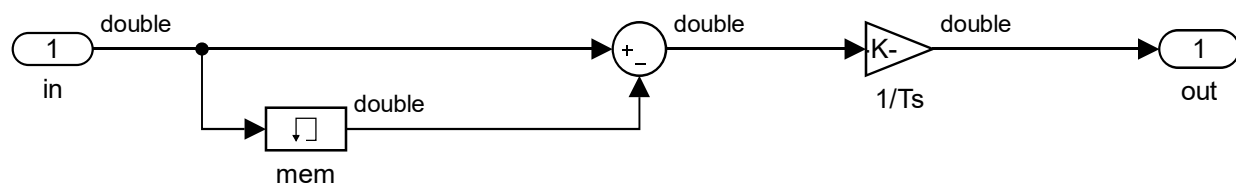
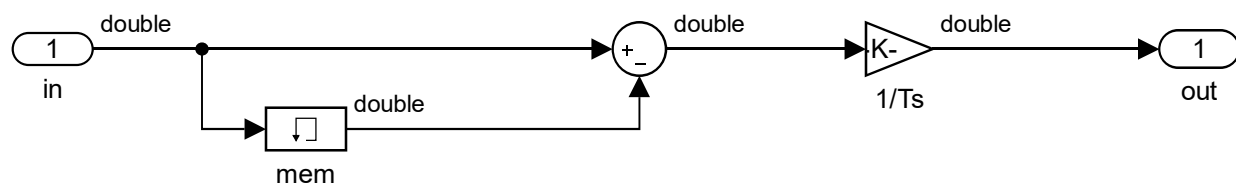
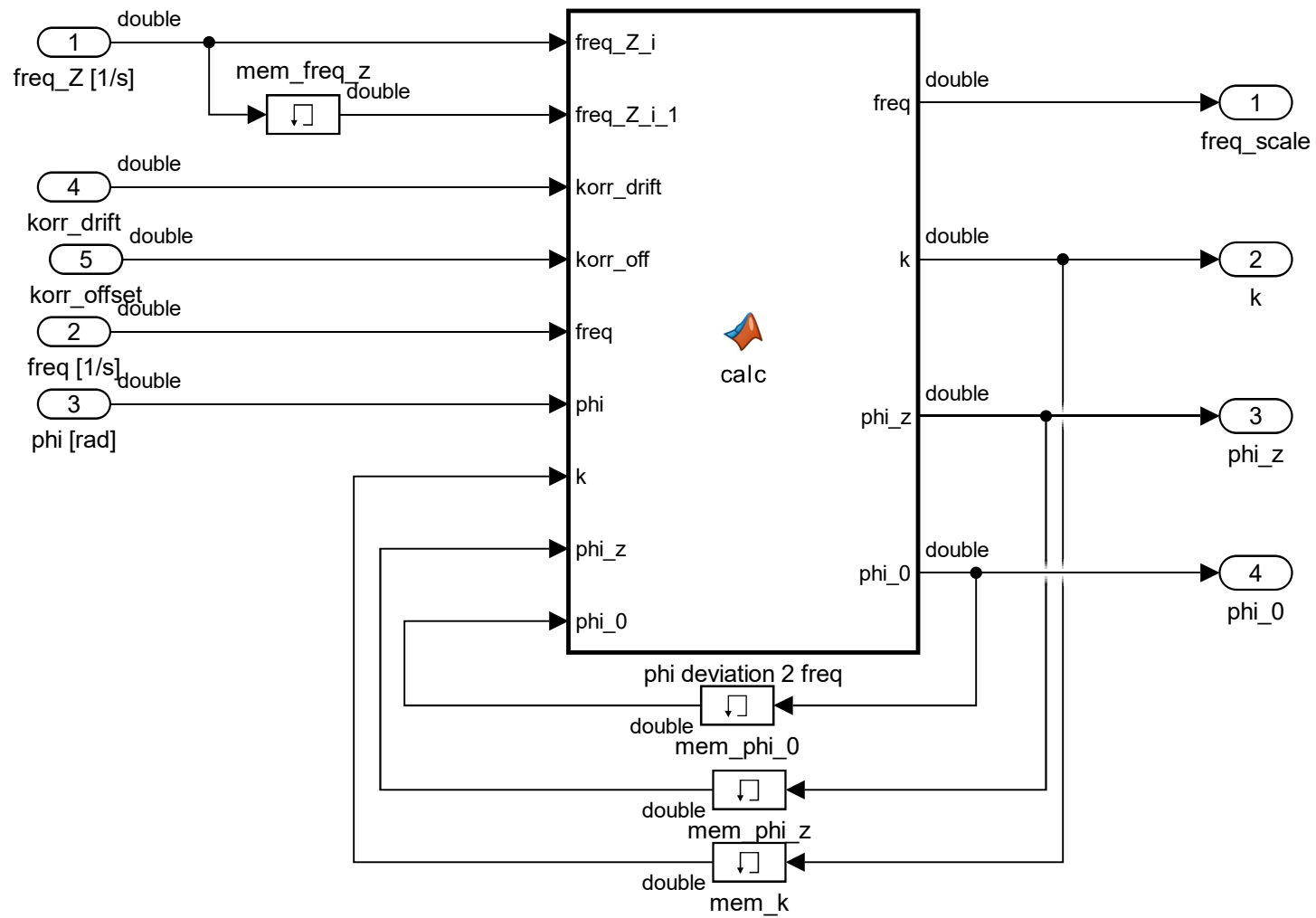


```
function T_CW = calc(T_CW)
if(abs(T_CW) < 250.0)
    T_CW = 330;
end
```







```

function [freq, k, phi_z, phi_0] = calc(freq_Z_i, freq_Z_i_1, korr_drift, korr_off, freq, phi, k, Ts, phi_z, phi_0)
if(abs(freq_Z_i - freq_Z_i_1) > 1e-3)
    if(phi > 2*pi) % not engine cycle but "per rotation"
        phi = phi - 2*pi;
    end
    if(phi > pi) % calibrate phi to be around 0
        phi = phi - 2*pi;
    end
    % drift
    k = k + korr_drift*(phi-phi_z)/(2*pi); % higher freq leads to higher phi offset
    % offset
    k = k - korr_off*((phi_z-phi_0)/(2*pi));
    if(abs(k-1)>0.05)
        k=sign(k)*1.05;
    end
    phi_z=phi;
    if(phi_0 > 2*pi) %init to first phi val
        phi_0=phi;
    end
end
freq = freq * k;

```