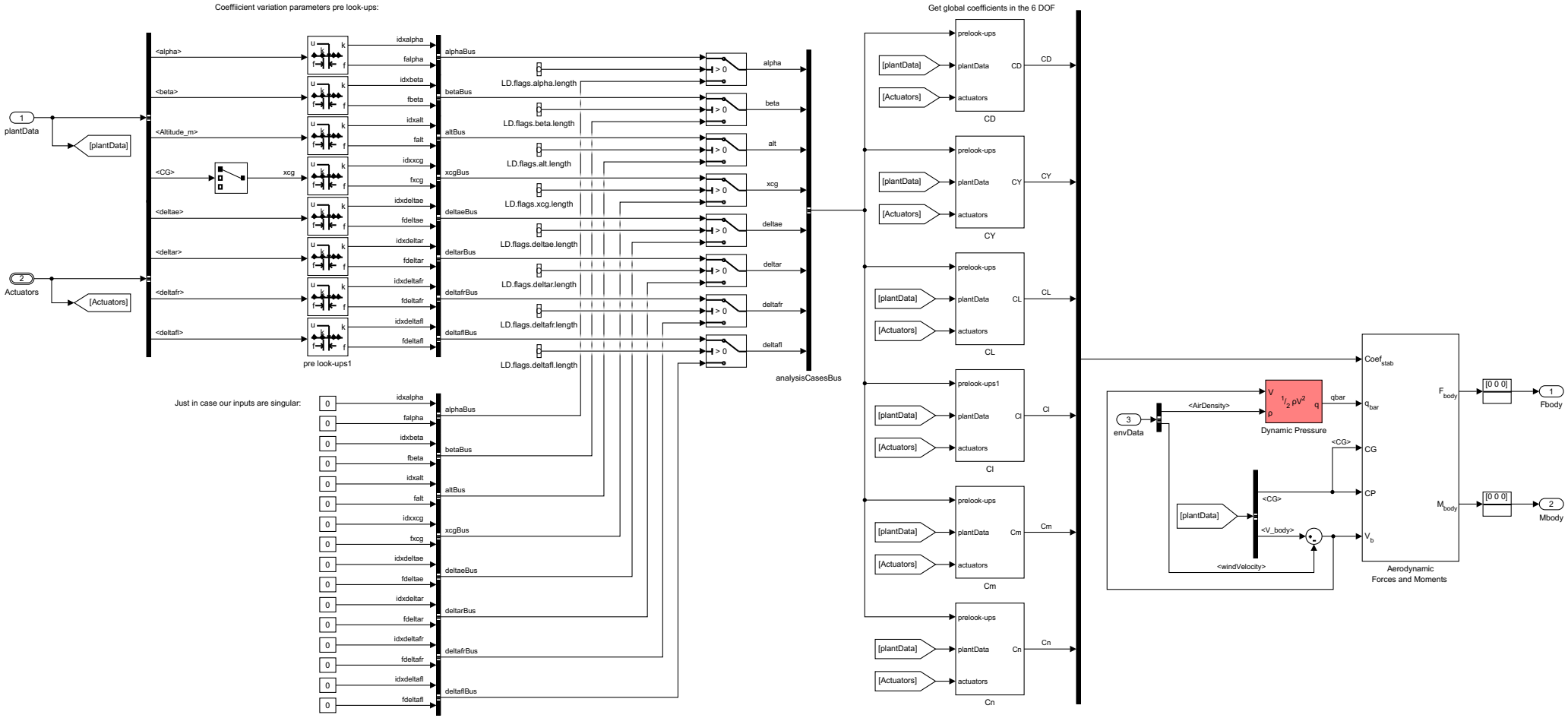
Coefficient variation parameters pre look-ups:
Get global coefficients in the 6 DOF
1
plantData
[plantData]
2
Actuators
[Actuators]
<alpha>
<beta>
<Altitude_m>
<CG>
xcg
<deltae>
<deltar>
<deltafr>
<deltafl>
pre look-ups1
idxalpha
falpha
idxbeta
fbeta
idxalt
falt
idxxcg
fxcg
idxdeltae
fdeltae
idxdeltar
fdeltar
idxdeltafr
fdeltafr
idxdeltafl
fdeltafl
alphaBus
betaBus
altBus
xcgBus
deltaeBus
deltarBus
deltafrBus
deltaflBus
LD.flags.alpha.length
LD.flags.beta.length
LD.flags.alt.length
LD.flags.xcg.length
LD.flags.deltae.length
LD.flags.deltar.length
LD.flags.deltafr.length
LD.flags.deltafl.length
> 0
alpha
beta
alt
xcg
deltae
deltar
deltafr
deltafl
analysisCasesBus
Just in case our inputs are singular:
0
prelook-ups
plantData
actuators
CD
CY
CL
Cl
Cm
Cn
prelook-ups1
Coef_stab
q_bar
CG
CP
V_b
F_body
M_body
3
envData
<AirDensity>
V
p
1/2 ρV²
q
Dynamic Pressure
qbar
<CG>
<V_body>
<windVelocity>
Aerodynamic
Forces and Moments
[0 0 0]
1
Fbody
2
Mbody