```
def state_space_conv(data):
    from eom import eom
    import numpy as np
    import control.matlab as c

    eoms = eom(data)
    Psym, Qsym, Rsym, Pasym, Qasym, Rasym = eoms
    #Symmetrical Case
    A = np.linalg.inv(Psym)*Qsym
    B = np.linalg.inv(Psym)*Rsym
    C = np.identity(4)
    D = np.zeros((4,1)) #Only elevator
    symsys = c.ss(A,B,C,D)
    symeig = np.linalg.eigvals(A)
    count = 0
    for i in range(len(symeig)):
        if np.real(symeig[i])<0:
            count=count+1
        else:
            break
    if count == len(symeig):
        print("System is stable")
    else:
        print("System is unstable")
    #Asymmetrical Case
    A = np.linalg.inv(Pasym)*Qasym
    B = np.linalg.inv(Pasym)*Rasym
    C = np.identity(4)
    D = np.zeros((4,2)) #Because both aileron and rudder displacement
    asymsys = c.ss(A,B,C,D)
    asymeig = np.linalg.eigvals(A)
    count = 0
    for i in range(len(asymeig)-1):
        if np.real(asymeig[i])<0:
            count=count+1
        else:
            break
    if count == len(asymeig):
        print("System is stable")
    else:
        print("System is unstable")

    return symsys, symeig, asymsys, asymeig
```