```
sys_open = tf([1],[1 2 1 0]);
sys_closed = feedback(sys_open,1,-1)
figure(1)
margin(sys_open)
[Gm,Pm,Wcg,Wcp] = margin(sys_open)
figure(2)
step(sys_closed)
S = stepinfo(sys_closed)
```

```
sys_closed =

           1
  --------------------
  s^3 + 2 s^2 + s + 1

Continuous-time transfer function.


Gm =

     2


Pm =

   21.3877


Wcg =

     1


Wcp =

    0.6823


S =

  struct with fields:

        RiseTime: 1.7271
    SettlingTime: 30.9388
     SettlingMin: 0.6759
     SettlingMax: 1.5435
       Overshoot: 54.3517
      Undershoot: 0
            Peak: 1.5435
        PeakTime: 4.7761
```