

---

```
deltaT = 0.1;

sysc = ss(2*tf([2 1],[1 3 2]))
[A,B,C,D]=ssdata(sysc)

sysd1 = ss(eye(2)+deltaT*A,deltaT*B,C,D,deltaT)

sysd2 = c2d(sysc,deltaT,'zoh');
```

```
sysc =
```

```
A =
      x1  x2
x1  -3  -2
x2   1   0
```

```
B =
      u1
x1   2
x2   0
```

```
C =
      x1  x2
y1   2   1
```

```
D =
      u1
y1   0
```

```
#####
```

```
A =
```

```
  -3  -2
   1   0
```

```
B =
```

```
  2
  0
```

```
C =
```

```
  2   1
```

```
D =
```

---

0

`sysd1 =`

`A =`

	<code>x1</code>	<code>x2</code>
<code>x1</code>	<code>0.7</code>	<code>-0.2</code>
<code>x2</code>	<code>0.1</code>	<code>1</code>

`B =`

	<code>u1</code>
<code>x1</code>	<code>0.2</code>
<code>x2</code>	<code>0</code>

`C =`

	<code>x1</code>	<code>x2</code>
<code>y1</code>	<code>2</code>	<code>1</code>

`D =`

	<code>u1</code>
<code>y1</code>	<code>0</code>

`#####: 0.1 seconds`

`#####`

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