

```
' File: TB2SX8.bas
' Abstract: Eight Basic Dual (Two-Step) Timers
' Revision: 0.1
' Author: Joe Stone
```

```
SYMBOL PROP1_OUT = 0
OUTPUT PROP1_OUT
SYMBOL prop1_step = BIT0
SYMBOL prop1_timer = B1
```

```
SYMBOL PROP2_OUT = 1
OUTPUT PROP2_OUT
SYMBOL prop2_step = BIT1
SYMBOL prop2_timer = B2
```

```
SYMBOL PROP3_OUT = 2
OUTPUT PROP3_OUT
SYMBOL prop3_step = BIT2
SYMBOL prop3_timer = B3
```

```
SYMBOL PROP4_OUT = 3
OUTPUT PROP4_OUT
SYMBOL prop4_step = BIT3
SYMBOL prop4_timer = B4
```

```
SYMBOL PROP5_OUT = 4
OUTPUT PROP5_OUT
SYMBOL prop5_step = BIT4
SYMBOL prop5_timer = B5
```

```
SYMBOL PROP6_OUT = 5
OUTPUT PROP6_OUT
SYMBOL prop6_step = BIT5
SYMBOL prop6_timer = B6
```

```
SYMBOL PROP7_OUT = 6
OUTPUT PROP7_OUT
SYMBOL prop7_step = BIT6
SYMBOL prop7_timer = B7
```

```
SYMBOL PROP8_OUT = 7
OUTPUT PROP8_OUT
SYMBOL prop8_step = BIT7
SYMBOL prop8_timer = B8
```

```
SYMBOL time = W5
SYMBOL prop = B13
```

```
HIGH PROP1_OUT
HIGH PROP2_OUT
HIGH PROP3_OUT
HIGH PROP4_OUT
HIGH PROP5_OUT
HIGH PROP6_OUT
HIGH PROP7_OUT
HIGH PROP8_OUT
```

```
' *****  
' ***** Begin Basic Dual Timer Block *****  
' *****
```

PROP1:

```
prop1_timer = prop1_timer + 1  
LOOKUP prop1_step, (1, 1), time  
IF prop1_timer <= time THEN NEXT_PROP  
prop1_timer = 1  
TOGGLE PROP1_OUT  
prop1_step = prop1_step + 1  
GOTO NEXT_PROP
```

```
' *****  
' ***** End Basic Dual Timer Block *****  
' *****
```

```
' *****  
' ***** Begin Basic Dual Timer Block *****  
' *****
```

PROP2:

```
prop2_timer = prop2_timer + 1  
LOOKUP prop2_step, (1, 1), time  
IF prop2_timer <= time THEN NEXT_PROP  
prop2_timer = 1  
TOGGLE PROP2_OUT  
prop2_step = prop2_step + 1  
GOTO NEXT_PROP
```

```
' *****  
' ***** End Basic Dual Timer Block *****  
' *****
```

```
' *****  
' ***** Begin Basic Dual Timer Block *****  
' *****
```

PROP3:

```
prop3_timer = prop3_timer + 1  
LOOKUP prop3_step, (1, 1), time
```

```

IF prop3_timer <= time THEN NEXT_PROP

prop3_timer = 1

TOGGLE PROP3_OUT

prop3_step = prop3_step + 1

GOTO NEXT_PROP

' *****
' ***** End Basic Dual Timer Block *****
' *****

' *****
' ***** Begin Basic Dual Timer Block *****
' *****

PROP4:

prop4_timer = prop4_timer + 1

LOOKUP prop4_step, (1, 1), time

IF prop4_timer <= time THEN NEXT_PROP

prop4_timer = 1

TOGGLE PROP4_OUT

prop4_step = prop4_step + 1

GOTO NEXT_PROP

' *****
' ***** End Basic Dual Timer Block *****
' *****

' *****
' ***** Begin Basic Dual Timer Block *****
' *****

PROP5:

prop5_timer = prop5_timer + 1

LOOKUP prop5_step, (1, 1), time

IF prop5_timer <= time THEN NEXT_PROP

prop5_timer = 1

TOGGLE PROP5_OUT

prop5_step = prop5_step + 1

```

GOTO NEXT_PROP

```
' *****  
' ***** End Basic Dual Timer Block *****  
' *****  
  
' *****  
' ***** Begin Basic Dual Timer Block *****  
' *****
```

PROP6:

```
prop6_timer = prop6_timer + 1  
  
LOOKUP prop6_step, (1, 1), time  
  
IF prop6_timer <= time THEN NEXT_PROP  
  
prop6_timer = 1  
  
TOGGLE PROP6_OUT  
  
prop6_step = prop6_step + 1  
  
GOTO NEXT_PROP
```

```
' *****  
' ***** End Basic Dual Timer Block *****  
' *****  
  
' *****  
' ***** Begin Basic Dual Timer Block *****  
' *****
```

PROP7:

```
prop7_timer = prop7_timer + 1  
  
LOOKUP prop7_step, (1, 1), time  
  
IF prop7_timer <= time THEN NEXT_PROP  
  
prop7_timer = 1  
  
TOGGLE PROP7_OUT  
  
prop7_step = prop7_step + 1  
  
GOTO NEXT_PROP
```

```
' *****  
' ***** End Basic Dual Timer Block *****  
' *****  
  
' *****  
' ***** Begin Basic Dual Timer Block *****  
' *****
```

PROP8:

prop8_timer = prop8_timer + 1

LOOKUP prop8_step, (1, 1), time

IF prop8_timer <= time THEN NEXT_PROP

prop8_timer = 1

TOGGLE PROP8_OUT

prop8_step = prop8_step + 1

GOTO NEXT_PROP

```
' *****  
' ***** End Basic Dual Timer Block *****  
' *****
```

TIME_DELAY:

PAUSE 1000

NEXT_PROP:

prop = prop + 1

BRANCH prop, (PROP1, PROP2, PROP3, PROP4, PROP5, PROP6, PROP7, PROP8,
TIME_DELAY)

prop = 0

GOTO PROP1