

Microcontroller Solutions

```
DELAY:MOV R3,#150          1 machine cycle
HERE:NOP                    1 mc
NOP                          1
NOP                          1
DJNZ R3,HERE                2 mc
    RET                    2
```

The time delay of the HERE loop is $[150(2+1+1+1)] \times 1.085\mu\text{sec} = 0.813\text{msec}$

Now for the instruction outside the loop (mov and ret),

$$(2+1) \times 1.085\mu\text{sec} = 3.25\mu\text{sec}$$

$$\text{Now } 0.813\text{ms} + 3.25\mu\text{sec} = 0.8162\text{msec}$$

33. $F = 16\text{MHz}$
 $F = 16\text{MHz}/12 = 1.33333\text{MHz}$
 $T = 1/F = 1/1.33333\text{MHz}$
 $T = 0.75\mu\text{sec}$

```
DELAY:MOV R3,#200          1
HERE:NOP                    1
    NOP                    1
    NOP                    1
    DJNZ R3,HERE            2
    RET                    2
```

The time delay of the HERE loop is $[200(2+1+1+1)] \times 0.75\mu\text{sec} = 0.75\text{msec}$

Now for the instruction outside the loop (mov and ret),

$$(2+1) \times 0.75\mu\text{sec} = 2.25\mu\text{sec}$$

$$\text{Now } 0.75\text{ms} + 2.25\mu\text{sec} = 0.75225\text{msec}$$

34. $F = 11.0592\text{MHz}$
 $F = 11.0592\text{MHz}/12 = 921.6\text{KHz}$
 $T = 1/F = 1/921.6\text{KHz}$
 $T = 1.085\mu\text{sec}$

Microcontroller Solution Manual

Michel Renovell



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Microcontroller Databook National Semiconductor Corporation,1988 XIII SBMicro, International Conference on Microelectronics and Packaging, ICMP'98: Technical papers Ivan Jorge Chueiri,Carlos Alberto dos Reis Filho,1998

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