How to Relay
D You could hypothetically guess no's until something works
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Delays in Assembly follow the general pattern of
Delays in Assembly follow the general pottern of a loop: Delay SUBS - #1 -> 1 cycle BNE Delay - 3 cycles
We want to find a count value to subtract from ? that will let us stay in the delay loop for . a specific amount of real-world time. What we want to calculate We use the formula:
What we want to calculate
We use the formula: NC = FT N- no. of cycles taken to execute instructions. (4) G- the count value we are truine to find 4 only if yours
C- the count value we are trying to find 4 only if your
F - the clock frequency (80 mHz, set by TExas Init)
F- the clock frequency (80 MHz, bet by TExas_Init) T- the time delay (150 ms as an example)
Delay SUBS ~ + 1 cycle 3 N=4
Now you have all the values, just plug thour in to solve for C. (Use Hz & seconds when calculating C).
Hints: MOV can only be used for 16 bit values up to
65535
LDR R2, = number, can be used to local up to
32 bit values LA ex. LDR R2, = 1000000.

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