Chris Thomas

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CST 120

1. Which interrupt was enabled? Which signal was selected to triggered the interrupt? What did sei() do?
   1. The External Interrupt Mask Register was enabled.
   2. The rising edge of INT0 generates an interrupt request.
   3. Enables interrupts by setting the global interrupt mask.
2. What was the name of the interrupt vector? Which Timer/Counter was used in the code? Which prescale value was used?
   1. The INT0 Vector.
   2. The TCCR1B timer was used in this code.
   3. The prescale value is 64.
3. Width of Echo Pulse (t) = 8 mS
4. c (sound speed) = 343 m / S
5. Distance = c x t = (343 m / S) x (8 mS)
6. Distance = 2.744 m (two way distance in meters)
7. One way Distance = Distance to Target
8. One Way Distance = 2.744 m / 2
9. One Way Distance = 1.372 m
10. mS = milliseconds
11. m / S = Meters per second
12. m = meter
13. t = time