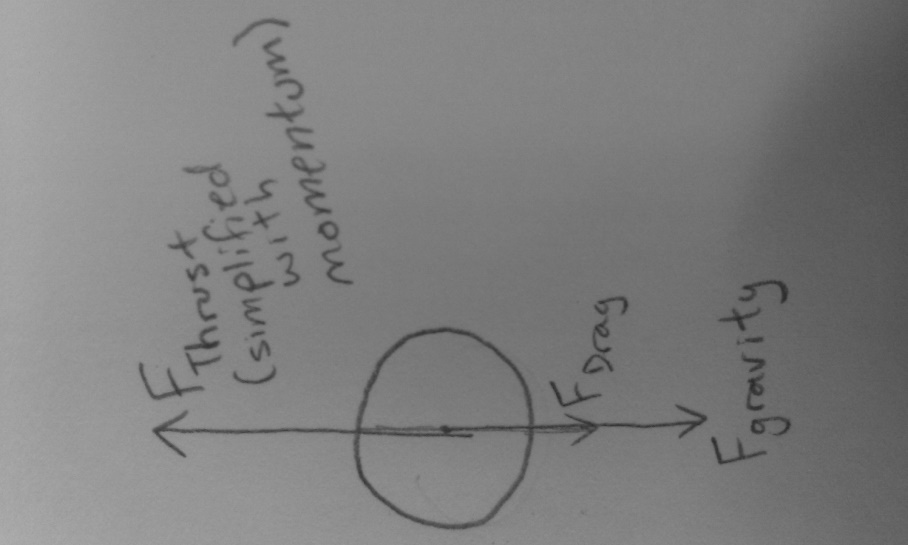
**Question:** How can you cross the Atlantic Ocean with a machine gun jetpack?

**Free Body Diagram:**

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**Equations of Motion:**

Velocity gained from a single bullet firing:

V­Thrust = (-mbullet\*Vbullet at muzzle) / Mgun

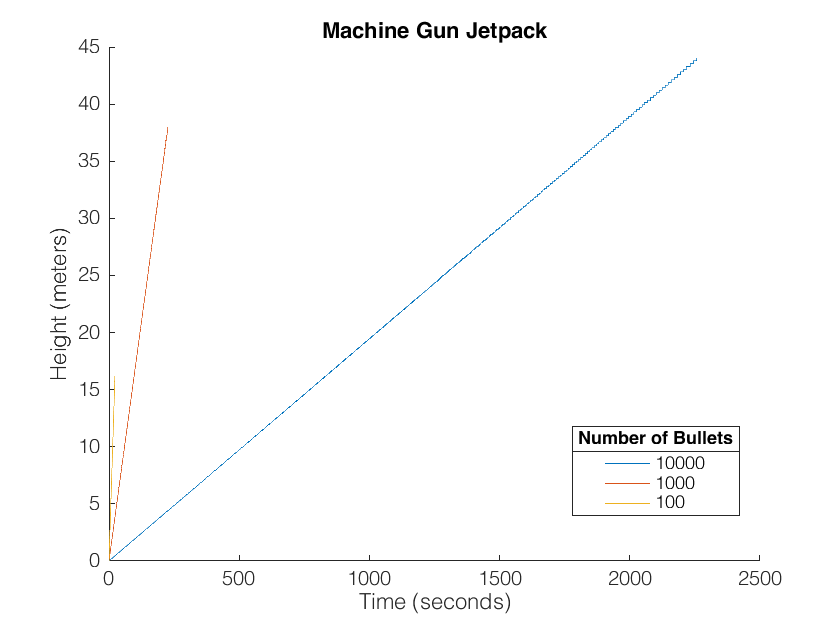
Acceleration between firings:

a = -9.8

(Currently only using gravity, soon to include drag)

Mass lost by firing is the mass of the whole round, not just the bullet; however, only the bullet is imparted a velocity which affects the momentum of the system.

**Graphs:**

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