EulerSolver\_Master\_20170103 Testing

**Test Case:** Single Axis Rotation

**Expected Result:** Simulation will maintain a constant angular velocity about the axis of rotation.

**Conditions:** N = [0 0 0] (N-m), I = [3 3 7] (kg\*m^2), t = 20 (s)

**3-axis:** w = [0 0 10] (rad/s)

**1-axis:** w = [10 0 0] (rad/s)

**2-axis:** w = [0 10 0] (rad/s)

**Test Case:** Double Axis Rotation (Symmetric Axes)

**Expected Result:** No acceleration on any axis, w remains constant

**Conditions:** N = [0 0 0] (N-m), I = [3 3 7] (kg\*m^2), t = 20 (s), w = [5 3 0]

**Test Case:** Triple Axis Rotation

**Expected Result:** Constant value for w3, w1 and w2 oscillating sinusoidally. The value of the angular velocity in the 1-2 plane, where , remains constant