

```
% DriverPl.m
% Purpose:  Drives MultivariateNewtonPl.m

clear all; clearvars; close all; clc;

format long;

% Constant
c = 299792.458; % "Speed of Light" [km/sec]

% GPS Receiver Location / Time
%x = 0;y = 0;z = 6370;d = 0;      % "Top-of-the-World"
%x = 0;y = 0;z = 0;d = 0;      % Earth-Centered
%x = 85;y = 80;z = 6370;d = 0.05;
x = 0;y = 0;z = 384399.861;d = 0; % Distance:  Earth-Moon
                                %    238,855 miles = 384,399.861 km

% Satellite Known Positions/times
%      #1      #2      #3      #4
A = [15600, 18760, 17610, 19170]; % x
B = [7540, 2750, 14630, 610]; % y
C = [20140, 18610, 13480, 18390]; % z
t = [0.07074, 0.07220, 0.07690, 0.07242]; % t

%steps = 7;
steps = 10;

xyzt = MultivariateNewtonPl(x,y,z,d,A,B,C,t,c,steps);
xyzt'

% Output to File
save xyzt_dataPl_00.out xyzt -ascii;
%type xyzt_dataPl_00.out
dlmwrite('xyzt_dataPl_01.out', xyzt, ' ');
%type xyzt_dataPl_01.out
```