Change List: FlatEarth Verson 9.5 4-17-2009

Make\_Constants:

* added function call [temp,press,rho,Hgeopvector]=atmosphere4(altitude,1) to determine density and temperature at altitude
* Added constants R=1716.55 ft^2/(sec^2degR) and gamma=1.4 (air)S
* Calculate speed of sound based on altitude given by sqrt(R\*gamma\*temp)
* Corrected Vh to use c\_w instead of c\_h
* Moved CL, Cd at trim calculations to Make\_Constants from Basic\_Constants
* Constant(28) added kappa\_h lambda\_c2\_h inputs

CL\_0

* Added outputs for CL\_0\_h and CL\_0\_wf
* Corrected CL\_alpha\_h to use kappa\_h and lambda\_c2\_h

Basic\_Constants

* Removed Mach, CL, Cd calculations
* Corrected U1 to U=u/1.687808

Linearize\_MATLAB7\_min

* Added copy of linearization step with different linearization objectives

Make\_Constants\_2

* Added Make\_Constants\_2 which is stripped down version of Make\_Constants created for faster flying qualities code execution

Thrust2

* Added input for engine offset used for calculated asymmetric thrust forces

Step\_5\_Linearize\_MATLAB7

* Removed extra call for Quicktrim2
* Change x1 & u1 to xIC & uIC