

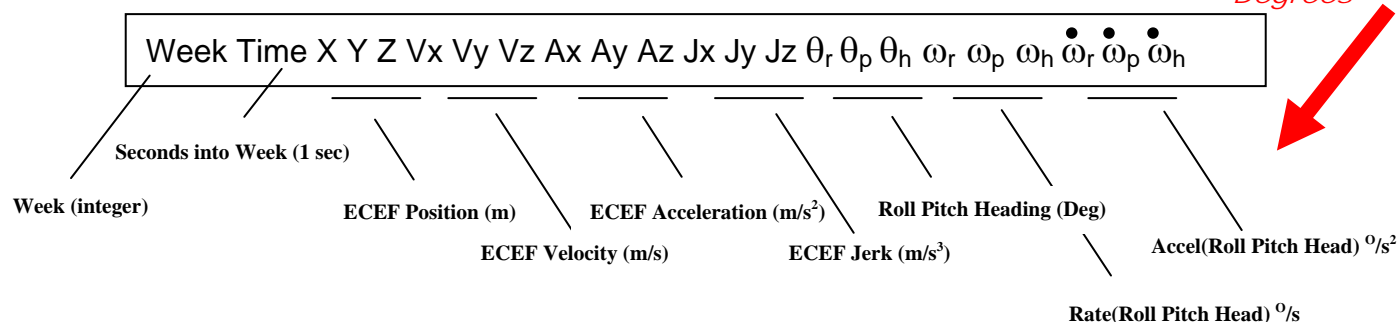
## (1 Hz) Motion File [Week Sec ECEF]

### (1 HZ) MOTION FILE [Week Seconds ECEF]

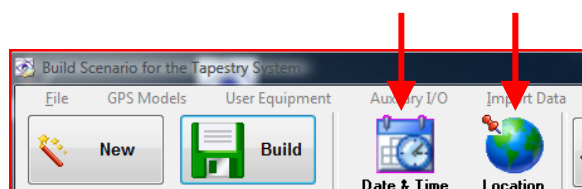
This control provides an extrapolation of 1 HZ input data to 10 HZ suitable for importation into the Scenario. The 1HZ file is created in Week Seconds-Into-Week ECEF format and imported into the Scenario.

#### Convention/Restrictions

- The data file you import must start at least 1 second into the simulated week.
- The file must be a 1 Hz with no data gaps.
- The file contains time sequential space delimited records comprised of,



- The Time tag is read in as an integer since the data is on 1 seconds epoch.
- If you do not have Attitude data ( θ<sub>r</sub> ... ) then omit these items and the program will use the velocity vector to compute attitude.
- This data must be based upon a continuous and differentiable model.
- The first record in the file is used as the initial state replacing the value programmed into the scenario. If you want to change the time or Location of the imported data, do so after you've imported the file using the Time and Location Icons located on the main Build Scenario menu.



Build Scenario will copy the input 1 Hz file into the local Scenario folder (*you may remove the original file as it is no longer needed*) and import it directly into the Scenario. **No further steps are necessary.**