

MEVTP (.TRJ) to [Sec ECEF]

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This format implements a generic ASCII representation of the profile data as follows.

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,

NOTE: the angular units are Degrees

Time X Y Z Vx Vy Vz Ax Ay Az Jx Jy Jz θ_r θ_p θ_h ω_r ω_p ω_h $\ddot{\theta}_r$ $\ddot{\theta}_p$ $\ddot{\theta}_h$

Seconds into Week (1 sec)

ECEF Position (m)

ECEF Velocity (m/s)

ECEF Acceleration (m/s²)

ECEF Jerk (m/s³)

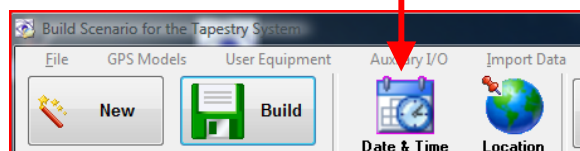
Roll Pitch Heading (Deg)

Accel(Roll Pitch Head) °/s²

Rate(Roll Pitch Head) °/s

NOTE: there is no Week in the MEVTP data

- The Time tag is read in as an integer since the data is on 1 second epoch.
- If you do not have Attitude data (θ_r ...) 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.
- This format does NOT explicitly contain the week. The Week keyed into the **Date & Time Control** will be used. If you want to change the time, do so after you've imported the file using the Time Icon 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*). **Build Scenario** will extrapolate this file to 10 Hz and import it directly into the Scenario. **No further action by the user is required.**