4.2.3 Simulation Control Inputs

Record (line) Number   <u>1</u>:3[+]

iv0   Course type flag, integer in column 8:   <u>0</u>:8[+]

> = -1, Open course starting at station 1 with initial speed v0. (Dragstrips or hillclimbs.)
>
> = 0, Closed course with an apex start. One lap. The program selects the apex at which calculations begin automatically. This is the minimum speed corner on the course. Output, however, is referenced to the S/F line if identified in the track data. (Minimum lap time for a closed circuit with at least one cornering limited turn.)
>
> = 1, Closed course starting at station 1 with initial speed v0. One lap. (Standing or flying start around a closed circuit.)
>
> = 2, Closed course starting with station 1 with initial speed v0. Two laps, the ending speed for the first lap is the new starting speed for the second lap. (Minimum lap time for a power limited course.)

v0   Forward Velocity   mph   9:<u>60.0</u>   [+]
             Starting speed for above options, not used for iv0 = 0.

ibbal   Indicator for fixed or optimized braking forces.   17:<u>0.0</u>   [+]
             A value of 0 sets the rear brake balance at values from tables on lines 101-105.
             A value of 1 implies a variable optimum front/rear braking distribution such as might be provided by anti-lock brakes.
             Also, this can be used to select a good compromise for fixed brake balance.

—   Not used (blank).   25:<u> xxxx </u>

AXLE   Drive axle code   33:<u>3.0</u>   [+]
             1.0 for front wheel drive
             3.0 for rear wheel drive

—   Not used (blank).   41:<u> xxxx </u>

ISYM   Vehicle/maneuver symmetry code   49:<u>0.0</u>   [+]
             0.0 — symmetric car
             1.0 — asymmetric car

uglob   Global friction coefficient multiplier   57:<u>1.0</u>   [+]
             Applies to the entire track, see Assumptions, page 19, #2.

ISUS   Suspension option code   65:<u>0.0</u>   [+]
             0.0 — independent front, solid axle rear
             1.0 — independent front and rear
      ISUS 2.0 and 3.0 are not allowed in LTS 3.10.