

9 Appendix

9.1 Flight Control commands available

- SetElevatorCmd(cmd)
- SetAileronCmd(cmd)
- SetRudderCmd(cmd)
- SetSpeedbrakesCmd(cmd)
- SetSpoilerCmd(cmd)
- SetPitchTrimCmd(cmd)
- SetYawTrimCmd(cmd)
- SetRollTrimCmd(cmd)

9.2 JSBSim Property List

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| <ul style="list-style-type: none"> • accelerations/Nz • accelerations/a-pilot-x-ft_sec2 • accelerations/a-pilot-y-ft_sec2 • accelerations/a-pilot-z-ft_sec2 • accelerations/n-pilot-x-norm • accelerations/n-pilot-y-norm • accelerations/n-pilot-z-norm • accelerations/pdot-rad_sec2 • accelerations/qdot-rad_sec2 • accelerations/rdot-rad_sec2 • accelerations/udot-ft_sec2 • accelerations/vdot-ft_sec2 • accelerations/wdot-ft_sec2 • aero/alpha-deg • aero/alpha-max-rad • aero/alpha-min-rad • aero/alpha-rad • aero/alpha-wing-rad • aero/alphadot-deg_sec • aero/alphadot-rad_sec • aero/beta-deg • aero/beta-rad • aero/betadot-deg_sec • aero/betadot-rad_sec • aero/bi2vel • aero/ci2vel • aero/cl-squared • aero/h_b-cg-ft • aero/h_b-mac-ft • aero/mag-beta-deg • aero/mag-beta-rad • aero/qbar-area • aero/qbar-psf | <ul style="list-style-type: none"> • aero/qbarUV-psf • aero/qbarUW-psf • aero/stall-hyst-norm • atmosphere/P-psf • atmosphere/P-sl-psf • atmosphere/T-R • atmosphere/T-sl-R • atmosphere/T-sl-dev-F • atmosphere/a-fps • atmosphere/a-ratio • atmosphere/a-sl-fps • atmosphere/crosswind-fps • atmosphere/delta • atmosphere/delta-T • atmosphere/density-altitude • atmosphere/gust-down-fps • atmosphere/gust-east-fps • atmosphere/gust-north-fps • atmosphere/headwind-fps • atmosphere/p-turb-rad_sec • atmosphere/psiw-rad • atmosphere/q-turb-rad_sec • atmosphere/r-turb-rad_sec • atmosphere/rho-sl-slugs_ft3 • atmosphere/rho-slugs_ft3 • atmosphere/sigma • atmosphere/theta • atmosphere/turb-gain • atmosphere/turb-rate • atmosphere/turb-rhythmicity • atmosphere/wind-from-cw • attitude/heading-true-rad • attitude/phi-rad • attitude/pitch-rad |
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| <ul style="list-style-type: none"> • attitude/psi-rad • attitude/roll-rad • attitude/theta-rad • fcs/aileron-cmd-norm • fcs/center-brake-cmd-norm • fcs/elevator-cmd-norm • fcs/elevator-pos-deg • fcs/elevator-pos-norm • fcs/elevator-pos-rad • fcs/flap-cmd-norm • fcs/flap-pos-deg • fcs/flap-pos-norm • fcs/flap-pos-rad • fcs/left-aileron-pos-deg • fcs/left-aileron-pos-norm • fcs/left-aileron-pos-rad • fcs/left-brake-cmd-norm • fcs/mag-elevator-pos-rad • fcs/mag-left-aileron-pos-rad • fcs/mag-right-aileron-pos-rad • fcs/mag-rudder-pos-rad • fcs/mag-speedbrake-pos-rad • fcs/mag-spoiler-pos-rad • fcs/pitch-trim-cmd-norm • fcs/right-aileron-pos-deg • fcs/right-aileron-pos-norm • fcs/right-aileron-pos-rad • fcs/right-brake-cmd-norm • fcs/roll-trim-cmd-norm • fcs/rudder-cmd-norm • fcs/rudder-pos-deg • fcs/rudder-pos-norm • fcs/rudder-pos-rad • fcs/speedbrake-cmd-norm • fcs/speedbrake-pos-deg • fcs/speedbrake-pos-norm • fcs/speedbrake-pos-rad • fcs/spoiler-cmd-norm • fcs/spoiler-pos-deg • fcs/spoiler-pos-norm • fcs/spoiler-pos-rad • fcs/steer-cmd-norm • fcs/yaw-trim-cmd-norm • flight-path/gamma-rad • flight-path/psi-gt-rad • forces/fbx-aero-lbs • forces/fbx-gear-lbs | <ul style="list-style-type: none"> • forces/fbx-prop-lbs • forces/fbx-total-lbs • forces/fby-aero-lbs • forces/fby-gear-lbs • forces/fby-prop-lbs • forces/fby-total-lbs • forces/fbz-aero-lbs • forces/fbz-gear-lbs • forces/fbz-prop-lbs • forces/fbz-total-lbs • forces/fwx-aero-lbs • forces/fwy-aero-lbs • forces/fwz-aero-lbs • forces/hold-down • forces/lod-norm • gear/gear-cmd-norm • gear/gear-pos-norm • gear/num-units • ic/alpha-deg ic/alpha-rad • ic/beta-deg ic/beta-rad • ic/gamma-deg • ic/gamma-rad • ic/h-agl-ft • ic/h-sl-ft • ic/lat-gc-deg • ic/lat-gc-rad • ic/long-gc-deg • ic/long-gc-rad • ic/mach • ic/p-rad_sec • ic/phi-deg • ic/phi-rad • ic/psi-true-deg • ic/psi-true-rad • ic/q-rad_sec • ic/r-rad_sec • ic/roc-fpm ic/roc-fps • ic/sea-level-radius-ft • ic/terrain-altitude-ft • ic/theta-deg • ic/theta-rad • ic/u-fps • ic/v-fps • ic/vc-kts • ic/vd-fps • ic/ve-fps • ic/ve-kts |
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| <ul style="list-style-type: none"> • ic/vg-fps • ic/vg-kts • ic/vn-fps • ic/vt-fps • ic/vt-kts • ic/vw-bx-fps • ic/vw-by-fps • ic/vw-bz-fps • ic/vw-dir-deg • ic/vw-down-fps • ic/vw-east-fps • ic/vw-mag-fps • ic/vw-north-fps • ic/w-fps inertia/cg-x-in • inertia/cg-y-in • inertia/cg-z-in • inertia/empty-weight-lbs • inertia/mass-slugs • inertia/weight-lbs • metrics/Sh-sqft • metrics/Sv-sqft • metrics/Sw-sqft • metrics/aero-rp-x-in • metrics/aero-rp-y-in • metrics/aero-rp-z-in • metrics/bw-ft • metrics/cbarw-ft • metrics/eyepoint-x-in • metrics/eyepoint-y-in • metrics/eyepoint-z-in • metrics/iw-deg • metrics/iw-rad • metrics/lh-ft • metrics/lh-norm • metrics/lv-ft • metrics/lv-norm • metrics/runway-radius • metrics/vbarh-norm • metrics/vbarv-norm • metrics/visualrefpoint-x-in • metrics/visualrefpoint-y-in • metrics/visualrefpoint-z-in • moments/l-aero-lbsft • moments/l-gear-lbsft • moments/l-prop-lbsft • moments/l-total-lbsft • moments/m-aero-lbsft | <ul style="list-style-type: none"> • moments/m-gear-lbsft • moments/m-prop-lbsft • moments/m-total-lbsft • moments/n-aero-lbsft • moments/n-gear-lbsft • moments/n-prop-lbsft • moments/n-total-lbsft • output-norm • position/distance-from-start-lat-mt • position/distance-from-start-lon-mt • position/distance-from-start-mag-mt • position/epa-rad • position/geod-alt-ft • position/h-agl-ft • position/h-sl-ft • position/h-sl-meters • position/lat-gc-deg • position/lat-gc-rad • position/lat-geod-deg • position/lat-geod-rad • position/long-gc-deg • position/long-gc-rad • position/radius-to-vehicle-ft • position/terrain-elevation-asl-ft • propulsion/active_engine • propulsion/cutoff_cmd • propulsion/fuel_dump • propulsion/magneto_cmd • propulsion/pt-lbs_sqft • propulsion/refuel • propulsion/set-running • propulsion/starter_cmd • propulsion/starter_cmd • propulsion/tat-c • propulsion/tat-r • propulsion/total-fuel-lbs • sim-time-sec • simulation/cycle_duration • simulation/do_simple_trim • simulation/do_trim_analysis • simulation/frame_start_time • simulation/integrator/position/rotational • simulation/integrator/position/translational • simulation/integrator/rate/rotational |
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- simulation/integrator/rate/translatio
nal
- simulation/terminate
- simulation/write-state-file
- systems/stall-warn-norm
- velocities/eci-velocity-mag-fps
- velocities/h-dot-fps
- velocities/mach
- velocities/machU
- velocities/p-aero-rad_sec
- velocities/p-rad_sec
- velocities/phidot-rad_sec
- velocities/psidot-rad_sec
- velocities/q-aero-rad_sec
- velocities/q-rad_sec
- velocities/r-aero-rad_sec
- velocities/r-rad_sec
- velocities/thetadot-rad_sec
- velocities/u-aero-fps
- velocities/u-fps
- velocities/v-aero-fps
- velocities/v-down-fps
- velocities/v-east-fps
- velocities/v-fps
- velocities/v-north-fps
- velocities/vc-fps
- velocities/vc-kts
- velocities/ve-fps
- velocities/ve-kts
- velocities/vg-fps
- velocities/vt-fps
- velocities/w-aero-fps
- velocities/w-fps