

Chart originally published by Susan Ashlock, MSFS Team Member 27/11/05

Column 'Example in GPS?' indicates whether or not there is an example of how these variables are used in the GPS. *NOTE* that variables that are not used in the GPS *may not work at all*. Further info will be added later, for example, values for enum.

How to access GPS variables:

Get: (C:fs9gps:VARNAME, UNITS)

Set: (>C:fs9gps:VARNAME, UNITS)

Airport Data

Var name	String?	Units	Example in GPS?	Get?	Set?
WaypointAirportICAO	X	string	X	X	X
WaypointAirportIdent	X	string	X	X	
WaypointAirportKind		enum	X	X	
WaypointAirportLongestRunwayDirection		degrees	X	X	
WaypointAirportType		enum	X	X	
WaypointAirportName	X	string	X	X	
WaypointAirportCity	X	string	X	X	
WaypointAirportRegion	X	string	X	X	
WaypointAirportLatitude		degrees	X	X	
WaypointAirportLongitude		degrees	X	X	
WaypointAirportElevation		meters	X	X	
WaypointAirportFuel1	X	string	X	X	
WaypointAirportFuel2	X	string	X	X	
WaypointAirportBestApproachEnum		enum		X	
WaypointAirportBestApproach	X	string	X	X	
WaypointAirportRadarCoverage		enum	X	X	
WaypointAirportAirspace	X	string	X	X	
WaypointAirportTowered		bool		X	
WaypointAirportCurrentFrequency		number	X	X	X
WaypointAirportFrequenciesNumber		number	X	X	
WaypointAirportFrequencyName	X	number	X	X	
WaypointAirportFrequencyLimit		enum	X	X	
WaypointAirportFrequencyValue		hz	X	X	
WaypointAirportFrequencyType		enum	X	X	
WaypointAirportCurrentRunway		number	X	X	X
WaypointAirportRunwaysNumber		number	X	X	
WaypointAirportRunwayLatitude		degrees	X	X	
WaypointAirportRunwayLongitude		degrees	X	X	
WaypointAirportRunwayElevation		meters		X	
WaypointAirportRunwayDirection		degrees		X	
WaypointAirportRunwayDesignation	X	string		X	
WaypointAirportRunwayLength		meters	X	X	
WaypointAirportRunwayWidth		meters	X	X	
WaypointAirportRunwaySurface		enum	X	X	
WaypointAirportRunwayLighting		enum	X	X	
WaypointAirportCurrentApproach		number	X	X	X
WaypointAirportApproachesNumber		number	X	X	
WaypointAirportApproachName	X	number	X	X	
WaypointAirportApproachGps		bool	X	X	
WaypointAirportApproachTransitionsNumber		number	X	X	

WaypointAirportApproachCurrentTransition		number	X	X	X
WaypointAirportApproachTransitionName	X	string	X	X	
WaypointAirportApproachTransitionLatitude		degrees	X	X	
WaypointAirportApproachTransitionLongitude		degrees	X	X	
WaypointAirportApproachTransitionSize		meters	X	X	

Intersection Data

Var name	String?	Units	Example ?	Get?	Set?
WaypointIntersectionICAO	X	string	X	X	X
WaypointIntersectionIdent	X	string	X	X	
WaypointIntersectionCity	X	string		X	
WaypointIntersectionRegion	X	string	X	X	
WaypointIntersectionLatitude		degrees	X	X	
WaypointIntersectionLongitude		degrees	X	X	
WaypointIntersectionType		enum		X	
WaypointIntersectionNearestVorIdent	X	string	X	X	
WaypointIntersectionNearestVorType		enum		X	
WaypointIntersectionNearestVorTrueRadial		degrees		X	
WaypointIntersectionNearestVorMagneticRadial		degrees	X	X	
WaypointIntersectionNearestVorDistance		meters	X	X	

NDB Data

Var name	String?	Units	e.g. in GPS	Get?	Set?
WaypointNdbICAO	X	string	X	X	X
WaypointNdbIdent	X	string	X	X	
WaypointNdbType		enum	X	X	
WaypointNdbName	X	string	X	X	
WaypointNdbCity	X	string	X	X	
WaypointNdbRegion	X	string	X	X	
WaypointNdbLatitude		degrees	X	X	
WaypointNdbLongitude		degrees	X	X	
WaypointNdbElevation		meters		X	
WaypointNdbFrequency		hz	X	X	
WaypointNdbWeatherBroadcast		enum	X	X	
WaypointNdbMagneticVariation		degrees		X	

VOR Data

Var name	String?	Units	Example in GPS?	Get?	Set?
WaypointVorICAO	X	string	X	X	X
WaypointVorIdent	X	string	X	X	
WaypointVorType		enum	X	X	
WaypointVorClass		enum	X	X	
WaypointVorName	X	string	X	X	
WaypointVorCity	X	string	X	X	
WaypointVorRegion	X	string	X	X	
WaypointVorLatitude		degrees	X	X	
WaypointVorLongitude		degrees	X	X	
WaypointVorElevation		meters		X	
WaypointVorFrequency		hz	X	X	
WaypointVorWeatherBroadcast		enum	X	X	
WaypointVorMagneticVariation		degrees	X	X	

Nearest Airport Data

Var name	String?	Units	Example in GPS	Get?	Set?
NearestAirportCurrentLatitude		degrees	X	X	X
NearestAirportCurrentLongitude		degrees	X	X	X
NearestAirportMaximumItems		number	X	X	X
NearestAirportMaximumDistance		meters	X	X	X
NearestAirportItemsNumber		number	X	X	
NearestAirportCurrentLine		number	X	X	X
NearestAirportCurrentICAO	X	string	X	X	
NearestAirportCurrentIdent	X	string	X	X	
NearestAirportCurrentAirportKind		enum	X	X	
NearestAirportCurrentLongestAirportDirection		meters	X	X	
NearestAirportCurrentDistance		meters	X	X	
NearestAirportCurrentTrueBearing		degrees	X	X	
NearestAirportCurrentBestApproachEnum		enum		X	
NearestAirportCurrentBestApproach	X	string	X	X	
NearestAirportCurrentComFrequencyName	X	string	X	X	
NearestAirportCurrentComFrequencyValue		hz	X	X	
NearestAirportCurrentLongestRunwayLength		meters	X	X	

Nearest Intersection Data

Var name	String?	Units	Example?	Get?	Set?
NearestIntersectionCurrentLatitude		degrees	X	X	X
NearestIntersectionCurrentLongitude		degrees	X	X	X
NearestIntersectionMaximumItems		number	X	X	X
NearestIntersectionMaximumDistance		meters	X	X	X
NearestIntersectionCurrentFilter		enum		X	X
NearestIntersectionAddIntersectionType		enum			X
NearestIntersectionRemoveIntersectionType		enum			X
NearestIntersectionSetDefaultFilter		enum			X
NearestIntersectionItemsNumber		number	X	X	
NearestIntersectionCurrentLine		number	X	X	X
NearestIntersectionCurrentICAO	X	string	X	X	
NearestIntersectionCurrentIdent	X	string	X	X	
NearestIntersectionCurrentType		enum		X	
NearestIntersectionCurrentDistance		meters	X	X	
NearestIntersectionCurrentTrueBearing		degrees	X	X	

Nearest VOR Data

Var name	String?	Units	Example?	Get?	Set?
NearestVorCurrentLatitude		degrees	X	X	X
NearestVorCurrentLongitude		degrees	X	X	X
NearestVorMaximumItems		number	X	X	X
NearestVorMaximumDistance		meters	X	X	X
NearestVorCurrentFilter		enum		X	X
NearestVorAddVorType		enum			X
NearestVorRemoveVorType		enum			X
NearestVorSetDefaultFilter		enum			X
NearestVorItemsNumber		number	X	X	
NearestVorCurrentLine		number	X	X	X
NearestVorCurrentICAO	X	string	X	X	
NearestVorCurrentIdent	X	string	X	X	
NearestVorCurrentType		enum	X	X	

NearestVorCurrentFrequency		hz	X	X	
NearestVorCurrentDistance		meters	X	X	
NearestVorCurrentTrueBearing		degrees	X	X	

Nearest NDB Data

Var name	String?	Units	Example?	Get?	Set?
NearestNdbCurrentLatitude		degrees	X	X	X
NearestNdbCurrentLongitude		degrees	X	X	X
NearestNdbMaximumItems		number	X	X	X
NearestNdbMaximumDistance		meters	X	X	X
NearestNdbItemsNumber		number	X	X	
NearestNdbCurrentLine		number	X	X	X
NearestNdbCurrentICAO	X	string	X	X	
NearestNdbCurrentIdent	X	string	X	X	
NearestNdbCurrentType		enum		X	
NearestNdbCurrentFrequency		hz	X	X	
NearestNdbCurrentDistance		meters	X	X	
NearestNdbCurrentTrueBearing		degrees	X	X	

Nearest Airspace Data

Var name	String?	Units	Example?	Get?	Set?
NearestAirspaceCurrentLatitude		degrees	X	X	X
NearestAirspaceCurrentLongitude		degrees	X	X	X
NearestAirspaceCurrentAltitude		meters	X	X	X
NearestAirspaceTrueGroundTrack		degrees	X	X	X
NearestAirspaceGroundSpeed		meters per second	X	X	X
NearestAirspaceNearDistance		meters	X	X	X
NearestAirspaceNearAltitude		meters	X	X	X
NearestAirspaceAheadTime		seconds	X	X	X
NearestAirspaceQuery		number	X	X	X
NearestAirspaceMaximumItems		number	X	X	X
NearestAirspaceMaximumDistance		meters	X	X	X
NearestAirspaceItemsNumber		number	X	X	
NearestAirspaceCurrentLine		number	X	X	X
NearestAirspaceCurrentName	X	string	X	X	
NearestAirspaceCurrentType		enum		X	
NearestAirspaceCurrentFrequency		hz		X	
NearestAirspaceCurrentFrequencyName	X	string		X	
NearestAirspaceCurrentMinAltitude		meters		X	
NearestAirspaceCurrentMaxAltitude		meters		X	
NearestAirspaceCurrentStatus		enum	X	X	
NearestAirspaceCurrentNearDistance		meters	X	X	
NearestAirspaceCurrentAheadTime		meters	X	X	

Message Data

Var name	String?	Units	Example?	Get?	Set?
MessageItemsNumber		number	X	X	
MessageCurrentLine		number	X	X	X
MessageCurrentType		enum	X	X	
NewMessagesNumber		number	X	X	
NewMessagesConfirm		number	X		X

IcaoSearch Data

Var name	String?	Units	Example	Get?	Set?
IcaoSearchInitialIcao	X	string	X	X	X
IcaoSearchStartCursor	X	string	X		X
IcaoSearchStopCursor		number	X		X
IcaoSearchAdvanceCursor		number	X		X
IcaoSearchAdvanceCharacter		number	X		X
IcaoSearchEnterChar	X	string	X		X
IcaoSearchBackupChar		number	X		X
IcaoSearchCursorPosition		number	X	X	
IcaoSearchCurrentIdent	X	string	X	X	
IcaoSearchCurrentIcao	X	string	X	X	X
IcaoSearchCurrentIcaoType	X	string	X	X	
IcaoSearchCurrentIcaoRegion	X	string	X	X	
IcaoSearchMatchedIcaosNumber		number	X	X	
IcaoSearchMatchedIcao		number	X	X	X

NameSearch Data

Var name	String?	Units	Example	Get?	Set?
NameSearchInitialIcao	X	string	X	X	X
NameSearchInitialName	X	string	X	X	X
NameSearchStartCursor	X	string	X		X
NameSearchStopCursor		number	X		X
NameSearchAdvanceCursor		number	X		X
NameSearchAdvanceCharacter		number	X		X
NameSearchEnterChar	X	string	X		X
NameSearchBackupChar		number	X		X
NameSearchCursorPosition		number	X	X	
NameSearchCurrentName	X	string	X	X	X
NameSearchCurrentMatch		number	X	X	
NameSearchCurrentIcao	X	string	X	X	
NameSearchCurrentIcaoType	X	string		X	
NameSearchCurrentIcaoRegion	X	string		X	

FlightPlan Data

Var name	String?	Units	Example?	Get?	Set?
FlightPlanTitle	X	string	X	X	
FlightPlanDescription	X	string		X	
FlightPlanIsActiveFlightPlan		bool	X	X	
FlightPlanIsLoadedApproach		bool	X	X	
FlightPlanIsActiveApproach		bool	X	X	X
FlightPlanIsActiveWaypoint		bool	X	X	X
FlightPlanIsDirectTo		bool	X	X	X
FlightPlanDirectToWaypoint		number	X	X	
FlightPlanActiveWaypoint		number	X	X	
FlightPlanActiveApproachWaypoint		number	X	X	
FlightPlanIsActiveWaypointLocked		bool	X	X	X
FlightPlanWaypointsNumber		number	X	X	
FlightPlanRouteType		enum		X	
FlightPlanFlightPlanType		enum		X	
FlightPlanDepartureAirportIdent	X	string		X	
FlightPlanDepartureName	X	string		X	
FlightPlanDepartureLatitude		degrees		X	
FlightPlanDepartureLongitude		degrees		X	

FlightPlanDepartureAltitude		meters		X	
FlightPlanDestinationAirportIdent	X	string		X	
FlightPlanDestinationName	X	string		X	
FlightPlanDestinationLatitude		degrees		X	
FlightPlanDestinationLongitude		degrees		X	
FlightPlanDestinationAltitude		meters		X	
FlightPlanAlternateAirportIdent	X	string		X	
FlightPlanAlternateName	X	string		X	
FlightPlanAlternateLatitude		degrees		X	
FlightPlanAlternateLongitude		degrees		X	
FlightPlanAlternateAltitude		meters		X	
FlightPlanCruisingAltitude		meters		X	
FlightPlanApproachWaypointType		enum		X	
FlightPlanApproachMode		enum		X	
FlightPlanApproachSegmentType		enum		X	
FlightPlanApproachSegmentDistance		meters		X	
FlightPlanApproachSegmentLength		meters		X	
FlightPlanApproachIsWaypointRunway		bool		X	
FlightPlanApproachAirportIdent	X	string	X	X	
FlightPlanApproachIndex		number		X	
FlightPlanApproachName	X	string	X	X	
FlightPlanApproachTransitionIndex		number	X	X	
FlightPlanApproachTransitionName	X	string	X	X	
FlightPlanIsApproachFinal		bool		X	
FlightPlanIsApproachMissed		bool		X	
FlightPlanActiveApproachWaypoint		number	X	X	
FlightPlanApproachWaypointsNumber		number	X	X	
FlightPlanApproachType		enum		X	
FlightPlanWaypointIndex		number	X	X	X
FlightPlanWaypointLatitude		degrees		X	
FlightPlanWaypointLongitude		degrees		X	
FlightPlanWaypointAltitude		meters		X	
FlightPlanWaypointICAO	X	string	X	X	
FlightPlanWaypointIdent	X	string	X	X	
FlightPlanWaypointAirwayIdent	X	string		X	
FlightPlanWaypointType		enum		X	
FlightPlanWaypointMinAltitude		meters		X	
FlightPlanWaypointFrequency		hz		X	
FlightPlanWaypointMagneticHeading		degrees	X	X	
FlightPlanWaypointSpeedEstimate		meters per second		X	
FlightPlanWaypointDistance		meters		X	
FlightPlanWaypointDistanceTotal		meters		X	
FlightPlanWaypointDistanceRemaining		meters		X	
FlightPlanWaypointRemainingDistance		meters	X	X	
FlightPlanWaypointRemainingTotalDistance		meters	X	X	
FlightPlanWaypointTimeZoneDeviation		seconds		X	
FlightPlanWaypointETE		seconds		X	
FlightPlanWaypointATE		seconds		X	
FlightPlanWaypointEstimatedTimeRemaining		seconds		X	
FlightPlanWaypointETA		seconds		X	
FlightPlanWaypointFuelRemainedAtArrival		gallons		X	
FlightPlanWaypointEstimatedFuelConsumption		gallons		X	

FlightPlanWaypointActualFuelConsumption		gallons		X	
FlightPlanWaypointApproachIndex		number	X	X	X
FlightPlanWaypointApproachType		enum	X	X	
FlightPlanWaypointApproachMode		enum		X	
FlightPlanWaypointApproachName	X	string	X	X	
FlightPlanWaypointApproachICAO	X	string		X	
FlightPlanWaypointApproachLatitude		degrees		X	
FlightPlanWaypointApproachLongitude		degrees		X	
FlightPlanWaypointApproachAltitude		meters		X	
FlightPlanWaypointApproachTarget		meters	X	X	
FlightPlanWaypointApproachLegDistance		meters		X	
FlightPlanWaypointApproachLegTotalDistance		meters		X	
FlightPlanWaypointApproachLegFromDistance		meters		X	
FlightPlanWaypointApproachRemainingDistance		meters	X	X	
FlightPlanWaypointApproachRemainingTotalDistance		meters	X	X	
FlightPlanWaypointApproachCourse		degrees	X	X	
FlightPlanNewWaypointLatitude		degrees			X
FlightPlanNewWaypointLongitude		degrees			X
FlightPlanNewWaypointIdent	X	string			X
FlightPlanNewWaypointICAO	X	string	X		X
FlightPlanDirectToDestination		bool	X		X
FlightPlanAddWaypoint		number			X
FlightPlanDeleteWaypoint		number			X
FlightPlanCancelDirectTo		bool			X
FlightPlanNewApproachAirport	X	string	X		X
FlightPlanNewApproachApproach		number	X		X
FlightPlanNewApproachTransition		number	X		X
FlightPlanNewApproachMissed		bool	X		X
FlightPlanNewApproachAddInitialLeg		enum	X		X
FlightPlanLoadApproach		bool	X		X

Facility Data

Var name	String?	Units	Example?	Get?	Set?
FacilityICAO	X	string	X	X	X
FacilityCode	X	string	X	X	
FacilityIdent	X	string	X	X	
FacilityValid		bool	X	X	
FacilityName	X	string	X	X	
FacilityCity	X	string	X	X	
FacilityRegion	X	string	X	X	
FacilityLatitude		degrees	X	X	
FacilityLongitude		degrees	X	X	
FacilityMagneticVariation		degrees		X	

Geocalc Data

Var name	String?	Units	Example?	Get?	Set?
GeoCalcLatitude1		degrees	X	X	X
GeoCalcLongitude1		degrees	X	X	X
GeoCalcAzimuth1		degrees		X	X
GeoCalcLatitude2		degrees	X	X	X
GeoCalcLongitude2		degrees	X	X	X
GeoCalcAzimuth2		degrees		X	X
GeoCalcLength		meters		X	X
GeoCalcCrossTrack		meters		X	

GeoCalcBearing		degrees	X	X	
GeoCalcDistance		meters		X	
GeoCalcIsIntersect		bool		X	
GeoCalcIntersectionLatitude		degrees		X	
GeoCalcIntersectionLongitude		degrees		X	
GeoCalcExtrapolationLatitude		degrees		X	
GeoCalcExtrapolationLongitude		degrees		X	