SIMULATION CONTROL

Command	Description	Usage	Argument types
HELP	Show help on a command, a pdf or write commands to file	HELP [command] or PDF or >filename	[txt]
IC	Initial condition: (re)start simulation and open scenario file	IC [IC/filename]	[string]
OP	Start/Run simulation or continue after pause	OP	
HOLD	Pause(hold) simulation	HOLD	
FF	Fast forward the simulation	FF [tend]	[time]
QUIT	Quit program/Stop simulation	QUIT	
SAVEIC	Save current situation as IC	SAVEIC filename	string
RESET	Reset simulation	RESET	
SCEN	Give current situation a scenario name	SCEN scenname	string
TIME	Set simulated clock time	TIME RUN(default) / HH:MM:SS.hh / REAL / UTC	[txt]
DT	Set simulation time step	DT dt	float
DTMULT	Sel multiplication factor for fast-time simulation	DTMULT multiplier	float
FIXDT	Fix the time step	FIXDT ON/OFF [tend]	onoff,[time]
PCALL	Call commands in another scenario file	PCALL filename [REL/ABS]	txt,[txt]
SEED	Set seed for all functions using a randomizer (e.g.mcre,noise)	SEED value	int
TAXI	Switch on/off ground/low altitude mode, prevents auto-delete at 1500 ft	TAXI ON/OFF : OFF auto deletes traffic below 1500 ft	onoff
AREA	Define experiment area (area of interest)	AREA Shapename/OFF or AREA lat,lon,lat,lon,[top,bottom]	[float/txt,float,float,float,alt,alt]
DATAFEED	Select an ADS-B data source for traffic	DATAFEED [ON/OFF]	[onoff]
ADDNODES	Add a simulation instance/node (Qt version only)	ADDNODES number	int
BATCH	Start a scenario file as batch simulation	BATCH filename	string
BENCHMARK	Run benchmark	BENCHMARK [scenfile,time]	[txt,time]

DISPLAY

Command	Description	Usage	Argument types
PAN	Pan screen (move view) to a waypoint, direction or aircraft	PAN latlon/acid/airport/waypoint/LEFT/RIGHT/ABOVE/DOWN	pandir/latlon
ZOOM	Zoom display in/out, you can also use +++ or -----	ZOOM IN/OUT or factor	float/txt
BOX	Define a box-shaped area	BOX name,lat,lon,lat,lon,[top,bottom]	txt,latlon,latlon,[alt,alt]
CIRCLE	Define a circle-shaped area	CIRCLE name,lat,lon,radius,[top,bottom]	txt,latlon,float,[alt,alt]
ECHO	Show a text in command window for user to read	ECHO txt	string
INSEDIT	Insert text op edit line in command window	INSEDIT txt	string
RUNWAYS	List available runways on an airport	RUNWAYS ICAO	txt
SWRAD	Switch on/off elements and background of map/radar view	SWRAD GEO/GRID/APT/VOR/WPT/LABEL/ADSB COVERAGE/TRAIL [dt]/[value]	txt,[float]
SYMBOL	Toggle aircraft symbol	SYMBOL	
TRAIL	Toggle aircraft trails on/off	TRAIL ON/OFF, [dt] OR TRAIL acid color	acid/bool,[float/txt]
LINE	Draw a line on the radar screen	LINE name,lat,lon,lat,lon	txt,latlon,latlon
POLY	Define a polygon-shaped area	POLY name,lat,lon,lat,lon, ...	txt,latlon,...
POLYALT	Define a polygon-shaped area in 3D: between two altitudes	POLY name,top,bottom,lat,lon,lat,lon, ...	txt,alt,alt,latlon,...
ND	Show navigation display with CDTI	ND acid	txt
SSD	Show state-space diagram (=conflict prevention display/predictive ASAS) (Qt version only)	SSD acid/ALL/OFF	txt

TRAFFIC COMMANDS

Command	Description	Usage	Argument types
CRE	Create an aircraft	CRE acid,type,lat,lon,hdg,alt,spd	txt,txt,latlon,hdg,alt,
DEL	Delete command (aircraft, wind, area)	DEL acid/WIND/shape	txt
ALT	Altitude command (autopilot)	ALT acid, alt, [vspd]	acid,alt,[vspd]
VS	Vertical speed command (autopilot)	VS acid,vspd (ft/min)	acid,vspd
HDG	Heading command (autopilot)	HDG acid,hdg (deg,True)	acid,float
SPD	Speed command (autopilot)	SPD acid,spd (CAS-kts/Mach)	acid,spd
LNAV	LNAV (lateral FMS mode) switch for autopilot	LNAV acid,[ON/OFF]	acid,[onoff]
VNAV	Switch on/off VNAV mode, the vertical FMS mode (autopilot)	VNAV acid,[ON/OFF]	acid,[onoff]
MCRE	Multiple random create of n aircraft in current view	MCRE n, [type/*, alt/*, spd/*, dest/*]	int,[txt,alt,spd,txt]
MOVE	Move an aircraft to a new position	MOVE acid,lat,lon,[alt,hdg,spd,vspd]	acid,latlon,[alt,hdg,s
NOISE	Turbulence/noise switch	NOISE [ON/OFF]	[onoff]
POS	Get info on aircraft	POS acid	txt
ENG	Specify a different engine type	ENG acid,[engine_id]	acid,[txt]
NOM	Set nominal acceleration for this aircraft (perf model)	NOM acid	acid
SYN	Macro for generating synthetic (geometric) traffic scenarios	SYN: Possible subcommands: HELP, SIMPLE, SIMPLED, DIFG, SUPER,MATRIX, FLOOR, TAKEOVER, WALL, ROW, COLUMN, DISP	txt,[...]
WIND	Define a wind vector as part of the 2D or 3D wind field	WIND lat,lon,alt/*,dir,spd[,alt,dir,spd,alt,...]	latlon,[alt],float,float ,...,...,...
GETWIND	Get wind at a specified position (and optionally at altitude)	GETWIND lat,lon[,alt]	latlon,[alt]

FMS / FLIGHT PLAN

Command	Description	Usage	Argument types
ADDWPT	Add a waypoint to route of aircraft (FMS)	ADDWPT acid, (wpname/lat,lon),[alt],[spd],[afterwp]	acid,wpt,[alt,spd,txt]
DIRECT	Go direct to specified waypoint in route (FMS)	DIRECT acid wpname	acid,txt
DELWPT	Delete a waypoint from a route (FMS)	DELWPT acid,wpname	acid,txt
ORIG	Set origin airport of aircraft	ORIG acid, latlon/airport	acid,wpt/latlon
DEST	Set destination of aircraft, aircraft wil fly to this airport	DEST acid, latlon/airport	acid,wpt/latlon
LISTRTE	Show list of route in window per page of 5 waypoints	LISTRTE acid, [pagenr]	acid,[int]

CONFLICT DETECTION & RESOLUTION / ASAS

Command	Description	Usage	Argument types
ASAS	Airborne Separation Assurance System switch	ASAS ON/OFF	[onoff]
CDMETHOD	Set conflict detection method	CDMETHOD [method]	[txt]
DTLOOK	Set lookahead time in seconds for conflict detection	DTLOOK [time]	[float]
DTNOLOOK	Set interval for conflict detection	DTNOLOOK [time]	[float]
NORESO	Switch off conflict resolution for this aircraft	NORESO [acid]	[string]
PRIORULES	Define priority rules (right of way) for conflict resolution	PRIORULES [ON/OFF PRIOCODE]	[onoff, txt]
RESO	Set resolution method	RESO [method]	[txt]
RESOOFF	Switch for conflict resolution module	RESOOFF [acid]	[string]
RFACH	Set resolution factor horizontal (to add a margin)	RFACH [factor]	[float]
RFACV	Set resolution factor vertical (to add a margin)	RFACV [factor]	[float]
RMETHH	Set resolution method to be used horizontally	RMETHH [method]	[txt]
RMETHV	Set resolution method to be used vertically	RMETHV [method]	[txt]
RSZONEDH	Set half of vertical dimension of resolution zone in ft	RSZONEDH [height]	[float]
RSZONER	Set horizontal radius of resolution zone in nm	RSZONER [radius]	[float]
ZONEDH	Set half of the vertical protected zone dimensions in ft	ZONEDH [height]	[float]
ZONER	Set the radius of the horizontal protected zone dimensions in nm	ZONER [radius]	[float]

MISCELLANEOUS

Command	Description	Usage	Argument types
CALC	Simple in-line math calculator, evaluates expression	CALC expression	string
DIST	Distance and direction calculation between two positions	DIST lat0, lon0, lat1, lon1	latlon,latlon
DUMPRTE	Write route to output/routelog.txt	DUMPRTE acid	acid
INSTLOG	INSTLOG data logging on	INSTLOG ON/OFF,[dt] or LISTVARS or SELECTVARS var1,...,varn	[txt,float/txt,...]
METRIC	Complexity metrics module	METRIC OFF/0/1/2, [dt]	onoff/int,[float]
SKYLOG	SKYLOG data logging on	SKYLOG ON/OFF,[dt] or LISTVARS or SELECTVARS var1,...,varn	[txt,float/txt,...]
SNAPLOG	SNAPLOG data logging on	SNAPLOG ON/OFF,[dt] or LISTVARS or SELECTVARS var1,...,varn	[txt,float/txt,...]