

Command	Description	Usage	Argument types	Function
ADDNODES	Add a simulation instance/node	ADDNODES number	['int']	Simulation.addNodes of bluesky.simulation.qtgl.simulation.Simulation object
ADDWPT	Add a waypoint to route of aircraft (FMS)	ADDWPT acid,	['acid', 'wpt', 'alt/txt', 'spd', 'wpinroute',	
AFTER	After waypoint, add a waypoint to route of aircraft (FMS)	acid AFTER afterwp ADDWPT	['acid', 'wpinroute', 'txt', 'wpt', 'alt', 'spd']	
AIRWAY	Get info on airway or connections of a waypoint	AIRWAY wp/airway	['txt']	Traffic.airwaycmd of bluesky.traffic.traffic.Traffic object
ALT	Altitude command (autopilot)	ALT acid, alt, [vspd]	['acid', 'alt', 'vspd']	Autopilot.selaltcmd of bluesky.traffic.autopilot.Autopilot object
ASAS	Airborne Separation Assurance System switch	ASAS ON/OFF/VMIN/VMAX	['onoff']	ASAS.toggle of bluesky.traffic.asas.asas.ASAS object
ASASV	Airborne Separation Assurance System Speed	ASASV MAX/MIN SPD (TAS in kts)	['txt', 'float']	ASAS.SetVLimits of bluesky.traffic.asas.asas.ASAS object
AT	Edit, delete or show spd/alt constraints at a waypoint in the route	acid AT wpname [DEL] SPD/ALT [spd/alt]	['acid', 'wpinroute', 'txt', 'txt']	
BATCH	Start a scenario file as batch simulation	BATCH filename	['string']	Simulation.batch of bluesky.simulation.qtgl.simulation.Simulation object
BEFORE	Before waypoint, add a waypoint to route of aircraft (FMS)	acid BEFORE beforewp ADDWPT	['acid', 'wpinroute', 'txt', 'wpt', 'alt', 'spd']	
BENCHMARK	Run benchmark	BENCHMARK [scenfile,time]	['txt', 'time']	Simulation.benchmark of bluesky.simulation.qtgl.simulation.Simulation object
BOX	Define a box-shaped area	BOX name,lat,lon,lat,lon,[top,bottom]	['txt', 'latlon', 'latlon', 'alt', 'alt']	
CALC	Simple in-line math calculator, evaluates expression	CALC expression	['string']	function calculator
CDMETHOD	Set conflict detection method	CDMETHOD [method]	['txt']	ASAS.SetCDmethod of bluesky.traffic.asas.asas.ASAS object
CIRCLE	Define a circle-shaped area	CIRCLE name,lat,lon,radius,[top,bottom]	['txt', 'latlon', 'float', 'alt', 'alt']	
CRE	Create an aircraft	CRE acid,type,lat,lon,hdg,alt,spd	['txt', 'txt', 'latlon', 'hdg', 'alt', 'spd']	Traffic.create of bluesky.traffic.traffic.Traffic object
CRECONFS	Create an aircraft that is in conflict with 'targetid'	CRECONFS id, type, targetid, dps, cpa, tlos_hor,	['txt', 'txt', 'acid', 'hdg', 'float', 'time', 'alt']	Traffic.creconfs of bluesky.traffic.traffic.Traffic object
DATAFEED	Select an ADS-B data source for traffic	DATAFEED [ON/OFF]	['onoff']	Modesbeast.toggle of adsbfeed.Modesbeast object
DEFWPT	Define a waypoint only for this scenario/run	DEFWPT wpname,lat,lon,[FIX/VOR/DME/NDB]	['txt', 'latlon', 'txt', 'txt', 'txt']	Navdatabase.defwpt of bluesky.navdatabase.navdatabase.Navdatabase object
DEL	Delete command (aircraft, wind, area)	DEL acid/ALL/wind/shape	['acid/txt']	
DELAY	Add a delayed command to stack	DELAY time offset, COMMAND+ARGS	['time', 'string']	
DELRT	Delete for this a/c the complete route/dest/orig (FMS)	DELRT acid	['acid']	
DELWPT	Delete a waypoint from a route (FMS)	DELWPT acid,wpname	['acid', 'wpinroute']	
DEST	Set destination of aircraft, aircraft wil fly to this airport	DEST acid, latlon/airport	['acid', 'wpt/latlon']	
DIRECT	Go direct to specified waypoint in route (FMS)	DIRECT acid wpname	['acid', 'txt']	
DIST	Distance and direction calculation between two positions	DIST lat0, lon0, lat1, lon1	['latlon', 'latlon']	function distcalc
DOC	Show extended help window for given command, or the main documentation page	DOC [command]	['txt']	ScreenIO.show_cmd_doc of bluesky.simulation.qtgl.screenio.ScreenIO object
DT	Set simulation time step	DT dt	['float']	Simulation.setDt of bluesky.simulation.qtgl.simulation.Simulation object
DTLOOK	Set lookahead time in seconds for conflict detection	DTLOOK [time]	['float']	ASAS.SetDtLook of bluesky.traffic.asas.asas.ASAS object
DTMULT	Sel multiplication factor for fast-time simulation	DTMULT multiplier	['float']	Simulation.setDtMultiplier of bluesky.simulation.qtgl.simulation.Simulation object
DTNOLOOK	Set interval for conflict detection	DTNOLOOK [time]	['float']	ASAS.SetDtNoLook of bluesky.traffic.asas.asas.ASAS object
DUMPRTE	Write route to output/routelog.txt	DUMPRTE acid	['acid']	
ECHO	Show a text in command window for user to read	ECHO txt	['string']	ScreenIO.echo of bluesky.simulation.qtgl.screenio.ScreenIO object
ENG	Specify a different engine type	ENG acid,[engine_id]	['acid', 'txt']	PerfBADA.engchange of bluesky.traffic.performance.legacy.perfbada.PerfBADA object
FF	Fast forward the simulation	FF [timeinsec]	['time']	Simulation.fastforward of bluesky.simulation.qtgl.simulation.Simulation object
FILTERALT	Display aircraft on only a selected range of altitudes	FILTERALT ON/OFF,[bottom,top]	['bool', 'alt', 'alt']	ScreenIO.filteralt of bluesky.simulation.qtgl.screenio.ScreenIO object
FIXDT	Fix the time step	FIXDT ON/OFF [tend]	['onoff', 'time']	Simulation.setFixdt of bluesky.simulation.qtgl.simulation.Simulation object
GETWIND	Get wind at a specified position (and optionally at altitude)	GETWIND lat,lon,[alt]	['latlon', 'alt']	WindSim.get of bluesky.traffic.windsim.WindSim object
HDG	Heading command (autopilot)	HDG acid,hdg (deg,True)	['acid', 'float']	Autopilot.selhdgcmd of bluesky.traffic.autopilot.Autopilot object
HELP	Show help on a command, show pdf or write list of commands to file	HELP [command]/pdf/>filename	['txt']	
HOLD	Pause(hold) simulation	HOLD	[]	Simulation.pause of bluesky.simulation.qtgl.simulation.Simulation object
IC	Initial condition: (re)start simulation and open scenario file	IC [IC/filename]	['string']	function ic
INSEDT	Insert text op edit line in command window	INSEDT txt	['string']	ScreenIO.cmdline of bluesky.simulation.qtgl.screenio.ScreenIO object
INSTLOG	INSTLOG data logging on	INSTLOG ON/OFF,[dt] or LISTVARS or SELECTVARS var1,...,varn	['txt', 'float/txt', '...']	CSVLogger.stackio of bluesky.tools.datalog.CSVLogger object
LINE	Draw a line on the radar screen	LINE name,lat,lon,lat,lon	['txt', 'latlon', 'latlon']	
LISTRTE	Show list of route in window per page of 5 waypoints	LISTRTE acid, [pagenr]	['acid', 'int']	
LNAV	LNAV (lateral FMS mode) switch for autopilot	LNAV acid,[ON/OFF]	['acid', 'onoff']	Autopilot.setLNAV of bluesky.traffic.autopilot.Autopilot object
MAKEDOC	Make markdown templates for all stack functions that don't have a doc page yet.	MAKEDOC	[]	function makedoc
MCRE	Multiple random create of n aircraft in current view	MCRE n, [type/*, alt/*, spd/*, dest/*]	['int', 'txt', 'alt', 'spd', 'txt']	Traffic.mcreate of bluesky.traffic.traffic.Traffic object
MOVE	Move an aircraft to a new position	MOVE acid,lat,lon,[alt,hdg,spd,vspd]	['acid', 'latlon', 'alt', 'hdg', 'spd', 'vspd']	Traffic.move of bluesky.traffic.traffic.Traffic object
ND	Show navigation display with CDTI	ND acid	['txt']	
NOISE	Turbulence/noise switch	NOISE [ON/OFF]	['onoff']	Traffic.setNoise of bluesky.traffic.traffic.Traffic object
NOM	Set nominal acceleration for this aircraft (perf model)	NOM acid	['acid']	Traffic.nom of bluesky.traffic.traffic.Traffic object
NORES	Switch off conflict resolution for this aircraft	NORES [acid]	['string']	ASAS.SetNoreso of bluesky.traffic.asas.asas.ASAS object
OP	Start/Run simulation or continue after pause	OP	[]	Simulation.start of bluesky.simulation.qtgl.simulation.Simulation object
ORIG	Set origin airport of aircraft	ORIG acid, latlon/airport	['acid', 'wpt/latlon']	
PAN	Pan screen (move view) to a waypoint, direction or aircraft	PAN latlon/acid/airport/waypoint/LEFT/RIGHT/ABOVE/DOWN	['pandir/latlon']	ScreenIO.pan of bluesky.simulation.qtgl.screenio.ScreenIO object
PCALL	Call commands in another scenario file	PCALL filename [REL/ABS]	['txt', 'txt']	

PLOT	Create a graph of variables x versus y.	PLOT x, y [,dt,color,figure]	['txt', 'txt', 'txt', 'txt', 'txt']	function plot
PLUGINS	List all plugins, load a plugin, or remove a loaded plugin.	PLUGINS LIST or LOAD plugin or REMOVE plugin	['txt', 'txt']	function manage
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	POLYALT name,top,bottom,lat,lon,lat,lon, ...	['txt', 'alt', 'alt', 'latlon', '...']	
POS	Get info on aircraft, airport or waypoint	POS acid/waypoint	['acid/wpt']	Traffic.poscommand of bluesky.traffic.traffic.Traffic object
PRIORULES	Define priority rules (right of way) for conflict resolution	PRIORULES [ON/OFF PRIORCODE]	['onoff', 'txt']	ASAS.SetPrio of bluesky.traffic.asas.asas.ASAS object
QUIT	Quit program/Stop simulation	QUIT	[]	Simulation.stop of bluesky.simulation.qtgl.simulation.Simulation object
RESET	Reset simulation	RESET	[]	Simulation.reset of bluesky.simulation.qtgl.simulation.Simulation object
RESO	Set resolution method	RESO [method]	['txt']	ASAS.SetCRmethod of bluesky.traffic.asas.asas.ASAS object
RESOOFF	Switch for conflict resolution module	RESOOFF [acid]	['string']	ASAS.SetResooff of bluesky.traffic.asas.asas.ASAS object
RFACH	Set resolution factor horizontal (to add a margin)	RFACH [factor]	['float']	ASAS.SetResoFACH of bluesky.traffic.asas.asas.ASAS object
RFACV	Set resolution factor vertical (to add a margin)	RFACV [factor]	['float']	ASAS.SetResoFacV of bluesky.traffic.asas.asas.ASAS object
RMETHH	Set resolution method to be used horizontally	RMETHH [method]	['txt']	ASAS.SetResoHoriz of bluesky.traffic.asas.asas.ASAS object
RMETHV	Set resolution method to be used vertically	RMETHV [method]	['txt']	ASAS.SetResoVert of bluesky.traffic.asas.asas.ASAS object
RSZONEDH	Set half of vertical dimension of resolution zone in ft	RSZONEDH [height]	['float']	ASAS.SetPZHm of bluesky.traffic.asas.asas.ASAS object
RSZONER	Set horizontal radius of resolution zone in nm	RSZONER [radius]	['float']	ASAS.SetPZrm of bluesky.traffic.asas.asas.ASAS object
SAVEIC	Save current situation as IC	SAVEIC filename	['string']	function saveic
SCEN	Give current situation a scenario name	SCEN scenname	['string']	function scenarioint
SCHEDULE	Schedule a stack command at a given time	SCHEDULE time, COMMAND+ARGS	['time', 'string']	
SEED	Set seed for all functions using a randomizer (e.g.mcre,noise)	SEED value	['int']	function setSeed
SKYLOG	SKYLOG data logging on	SKYLOG ON/OFF[,dt] or LISTVARS or SELECTVARS var1,...,varn	['txt', 'float/txt', '...']	CSVLogger.stackio of bluesky.tools.datalog.CSVLogger object
SNAPLOG	SNAPLOG data logging on	SNAPLOG ON/OFF[,dt] or LISTVARS or SELECTVARS var1,...,varn	['txt', 'float/txt', '...']	CSVLogger.stackio of bluesky.tools.datalog.CSVLogger object
SPD	Speed command (autopilot)	SPD acid,spd [CAS-kts/Mach]	['acid', 'spd']	Autopilot.selspdcmd of bluesky.traffic.autopilot.Autopilot object
SSD	Show state-space diagram (=conflict prevention display/predictive ASAS)	SSD ALL/CONFLICTS/OFF or SSD acid0, acid1, ...	['txt', '...']	ScreenIO.showssd of bluesky.simulation.qtgl.screenio.ScreenIO object
SWRAD	Switch on/off elements and background of map/radar view	SWRAD GEO/GRID/APT/VOR/WPT/LABEL/ADSBCOVERA GE/TRAIL [dt]/[value]	['txt', 'float']	ScreenIO.feature of bluesky.simulation.qtgl.screenio.ScreenIO object
SYMBOL	Toggle aircraft symbol	SYMBOL	[]	ScreenIO.symbol of bluesky.simulation.qtgl.screenio.ScreenIO object
SYN	Macro for generating synthetic (geometric) traffic scenarios	SYN: Possible subcommands: HELP, SIMPLE, SIMPLD, DIFG, SUPER,MATRIX, FLOOR, TAKEOVER, WALL, ROW, COLUMN, DISP	['txt', '...']	function process
TIME	Set simulated clock time	TIME RUN(default) / HH:MM:SS.hh / REAL / UTC	['txt']	Simulation.setclock of bluesky.simulation.qtgl.simulation.Simulation object
TRAIL	Toggle aircraft trails on/off	TRAIL ON/OFF, [dt] OR TRAIL acid color	['acid/bool', 'float/txt']	Trails.setTrails of bluesky.traffic.trails.Trails object
VNAV	Switch on/off VNAV mode, the vertical FMS mode (autopilot)	VNAV acid,[ON/OFF]	['acid', 'onoff']	Autopilot.setVNAV of bluesky.traffic.autopilot.Autopilot object
VS	Vertical speed command (autopilot)	VS acid,vspd (ft/min)	['acid', 'vspd']	Autopilot.selsvpcmd of bluesky.traffic.autopilot.Autopilot object
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', '...', '...', '...']	WindSim.add of bluesky.traffic.windsim.WindSim object
ZONEDH	Set half of the vertical protected zone dimensions in ft	ZONEDH [height]	['float']	ASAS.SetPZH of bluesky.traffic.asas.asas.ASAS object
ZONER	Set the radius of the horizontal protected zone dimensions in nm	ZONER [radius]	['float']	ASAS.SetPZR of bluesky.traffic.asas.asas.ASAS object
ZOOM	Zoom display in/out, you can also use +++ or ----	ZOOM IN/OUT or factor	['float/txt']	

Synonyms (equivalent commands)		
?	HELP	Show help on a command, show pdf or write list of commands to file
ADDAIRWAY	ADDAWY	
AIRPORT	POS	Get info on aircraft, airport or waypoint
AIRWAYS	AIRWAY	Get info on airway or connections of a waypoint
AWY	POS	Get info on aircraft, airport or waypoint
CALL	PCALL	Call commands in another scenario file
CLOSE	QUIT	Quit program/Stop simulation
CONTINUE	OP	Start/Run simulation or continue after pause
CREATE	CRE	Create an aircraft
DEBUG	CALC	Simple in-line math calculator, evaluates expression
DELETE	DEL	Delete command (aircraft, wind, area)

DELROUTE	DEL RTE	Delete for this a/c the complete route/dest/orig (FMS)
DELWP	DELWPT	Delete a waypoint from a route (FMS)
DIRECTTO	DIRECT	Go direct to specified waypoint in route (FMS)
DIRTO	DIRECT	Go direct to specified waypoint in route (FMS)
DISP	SWRAD	Switch on/off elements and background of map/radar view
END	QUIT	Quit program/Stop simulation
EXIT	QUIT	Quit program/Stop simulation
FWD	FF	Fast forward the simulation
HEADING	HDG	Heading command (autopilot)
HMETH	RMETHH	Set resolution method to be used horizontally
HRESOM	RMETHH	Set resolution method to be used horizontally
HRESOMETH	RMETHH	Set resolution method to be used horizontally
LOAD	IC	Initial condition: (re)start simulation and open scenario file
OPEN	IC	Initial condition: (re)start simulation and open scenario file
PAUSE	HOLD	Pause(hold) simulation
Q	QUIT	Quit program/Stop simulation
RESOFACH	RFACH	Set resolution factor horizontal (to add a margin)
RESOFACV	RFACV	Set resolution factor vertical (to add a margin)
RTF	DTMULT	Set multiplication factor for fast-time simulation
RUN	OP	Start/Run simulation or continue after pause
RUNWAYS	POS	Get info on aircraft, airport or waypoint
SAVE	SAVEIC	Save current situation as IC
SPEED	SPD	Speed command (autopilot)
START	OP	Start/Run simulation or continue after pause
STOP	QUIT	Quit program/Stop simulation
TRAILS	TRAIL	Toggle aircraft trails on/off
TURN	HDG	Heading command (autopilot)
VMETH	RMETHV	Set resolution method to be used vertically
VRESOM	RMETHV	Set resolution method to be used vertically
VRESOMETH	RMETHV	Set resolution method to be used vertically