

ArcSnapshot - Quick Reference

Version 5.0.4



Usage

ArcSnapshot [-flag] [control_file]

Optional Flags:

- Q[uiet] = execute without screen messages
- H[elp] = show program syntax and control keys
- C[ontrol] = create/update a default control file
- K[eyCheck] = list unrecognized control file keys
- P[ause] = pause before exiting
- N[oPause] = never pause before exiting
- D[etail] = execute with detailed status messages
- X[ML] = write an XML file with control keys

Purpose

1. Create ArcView shapefiles from selected records in TRANSIMS snapshot files.
2. Create ArcView shapefiles from selected records in TRANSIMS occupancy files.
3. Vehicle lane-offset locations can be drawn as polygons or points layers.
4. Output new snapshot files with X, Y, and bearing data updated based on the lane shape.

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
TITLE	Text		
REPORT_FILE	File		filename[_partition][.prn]
REPORT_FLAG	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
PROJECT_DIRECTORY	Path		
MODEL_START_TIME	Time	0:00	>= 0 [seconds], 0.0 [hours], 0:00
MODEL_END_TIME	Time	24:00	> [model_start_time]
UNITS_OF_MEASURE	Text	METRIC	METRIC, ENGLISH
RANDOM_NUMBER_SEED	Int.	0	0 = computer clock, > 0 = fixed
MAX_WARNING_MESSAGES	Int.	100000	>= 0
MAX_WARNING_EXIT_FLAG	Bool	TRUE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
MAX_PROBLEM_COUNT	Int.	0	>= 0

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
NUMBER_OF_THREADS	Int.	1	1..24

System File Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
<input checked="" type="checkbox"/> NODE_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> LINK_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> POCKET_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> VEHICLE_TYPE_FILE	File		[project_directory]filename
SHAPE_FILE	File		[project_directory]filename
CONNECTION_FILE	File		[project_directory]filename

File Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
NOTES_AND_NAME_FIELDS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

Data Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
SUMMARY_TIME_RANGES	Text	ALL	e.g., ALL, 0..97200 seconds, 0.0..27.0 hours, 0:00..27:00
SUMMARY_TIME_INCREMENT	Time	15 minutes	0, 2..240 minutes

Select Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
SELECT_VEHICLE_TYPES	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
SELECT_SUBAREA_POLYGON	File		[project_directory]filename

Draw Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
LANE_WIDTH	Dec.	3.5 meters	0..40 meters
CENTER_ONEWAY_LINKS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
DRAW_VEHICLE_SHAPES	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

Projection, Smooth Data, Difference Data Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
INPUT_COORDINATE_SYSTEM	List		LATLONG, DEGREES/MILLION_DEGREES or STATEPLANE/UTM, code, FEET/METERS/MILES/KILOMETERS
INPUT_COORDINATE_ADJUSTMENT	List		X Offset, Y Offset, X Factor, Y Factor
OUTPUT_COORDINATE_SYSTEM	List		LATLONG, DEGREES/MILLION_DEGREES or STATEPLANE/UTM, code, FEET/METERS/MILES/KILOMETERS
OUTPUT_COORDINATE_ADJUSTMENT	List		X Offset, Y Offset, X Factor, Y Factor
OUTPUT_XYZ_SHAPES	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
OUTPUT_XYM_SHAPES	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

Control Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
SNAPSHOT_FILE	File		[project_directory]filename
OCCUPANCY_FILE	File		[project_directory]filename
NEW_ARC_SNAPSHOT_FILE	File		[project_directory]filename
CELL_SIZE	Dec.	0.0 meters	0, 3..10 meters
ADD_PASSENGER_CIRCLE_SIZE	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
ADD_PASSENGER_SQUARE_SIZE	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
PAD_FILE_TIME_LABEL	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
TIME_PROCESSING_METHOD	Text	AT_INCREMENT	AT_INCREMENT, TOTAL, MAXIMUM
NEW_SNAPSHOT_FILE	File		[project_directory]filename
NEW_LINK_SUMMARY_FILE	File		[project_directory]filename

Notes

Each '_FILE' key has a corresponding '_FORMAT' key. The following file formats can be used for input and output files.

TEXT, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, SQLITE3, VERSION3