

LocationData - Quick Reference

Version 5.0.3



Usage

LocationData [-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 or update fields in the activity location file.
2. Assign activity locations to a zone number based on the point-in-polygon equivalence to an ArcView zone boundary file.
3. Create transit accessibility weights based on the number of transit runs within a specified distance of each activity location.
4. Create trip distribution flags based on the use codes of the link attached to the activity location.
5. Create trip distribution weights based on the location of subzone centroids and a subzone data field.
6. Copy data fields from a zone file based on a zone number in the activity location file.
7. Apply custom data processing scripts to manipulate and calculate fields in the activity location file based on inputs from several related files.
8. Access fields in an ArcView polygon boundary file based on a point-in-polygon match to the activity location coordinates.

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

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
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
NUMBER_OF_THREADS	Int.	1	1..24
LOCATIONDATA_REPORT_*	Text		program report name

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"/> LOCATION_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_LOCATION_FILE	File		[project_directory]filename
ZONE_FILE	File		[project_directory]filename
SHAPE_FILE	File		[project_directory]filename
ACCESS_FILE	File		[project_directory]filename
TRANSIT_STOP_FILE	File		[project_directory]filename
TRANSIT_ROUTE_FILE	File		[project_directory]filename
TRANSIT_SCHEDULE_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

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

Projection, Smooth Data, Difference Data Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
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
COPY_EXISTING_FIELDS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
NEW_WALK_ACCESS_FIELD	Text		
MAX_WALK_DISTANCE	Int.	1000 meters	10..3000 meters
WALK_ACCESS_TIME_RANGE	Text		
NEW_USE_FLAG_FIELD_*	Text		
LINK_USE_FLAG_TYPES_*	Text		
SUBZONE_ZONE_FACTOR_FILE	File		[project_directory]filename
NEW_SUBZONE_FIELD_*	Text		NAME, INTEGER, 10
MAX_SUBZONE_DISTANCE_*	Int.	1000 meters	0, 10..10000 meters
SUBZONE_DATA_FILE_*	File		[project_directory]filename
SUBZONE_DATA_FIELD_*	Text		
SUBZONE_ZONE_FIELD_*	Text		
NEW_LOCATION_FIELD_*	Text		NAME, INTEGER, 10
CONVERSION_SCRIPT	File		[project_directory]filename
DATA_FILE_*	File		[project_directory]filename
DATA_JOIN_FIELD_*	Text		
LOCATION_JOIN_FIELD_*	Text		
BOUNDARY_POLYGON_FILE_*	File		[project_directory]filename
NEW_ZONE_LOCATION_MAP_FILE	File		[project_directory]filename
MINIMUM_ZONE_LOCATIONS	Int.	4	2..20

Control Keys

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

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