

ConvertTrips - Quick Reference

Version 5.0.4



Usage

ConvertTrips [-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. Convert multiple zone-to-zone trip tables to trip, vehicle, household, and population files.
2. Assign each trip table to a different trip purpose and vehicle type.
3. Apply different diurnal distribution curves to each trip table or zone range.
4. Apply district-to-district correction factors to the input trips by trip purpose.
5. Append additional trips to existing trip, vehicle, household, and population files.
6. A period field can be included in the input trip tables to limit the time-of-day distribution of the trips.

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

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
MAX_PROBLEM_COUNT	Int.	0	>= 0
NUMBER_OF_THREADS	Int.	1	1..24
CONVERTTRIPS_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"/> ZONE_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> LINK_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> PARKING_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> LOCATION_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> VEHICLE_TYPE_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_HOUSEHOLD_FILE	File		[project_directory]filename.*
<input checked="" type="checkbox"/> NEW_VEHICLE_FILE	File		[project_directory]filename.*
<input checked="" type="checkbox"/> NEW_TRIP_FILE	File		[project_directory]filename.*
SHAPE_FILE	File		[project_directory]filename
ACCESS_FILE	File		[project_directory]filename
HOUSEHOLD_FILE	File		[project_directory]filename.*
VEHICLE_FILE	File		[project_directory]filename.*
TRIP_FILE	File		[project_directory]filename.*
SKIM_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
ZONE_EQUIVALENCE_FILE	File		[project_directory]filename
ZONE_LOCATION_MAP_FILE	File		[project_directory]filename

Control Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
<input checked="" type="checkbox"/> TRIP_TABLE_FILE_*	File		[project_directory]filename
<input checked="" type="checkbox"/> TIME_DISTRIBUTION_FILE_*	File		[project_directory]filename
FIRST_HOUSEHOLD_NUMBER	Int.	1	1..1000000000
ADDITIONAL_TRAVEL_TIME	Time	0 minutes	0..30 minutes
TRIP_SCALING_FACTOR_*	Dec.	1.0	0.001..100.0
TIME_DISTRIBUTION_SCRIPT_*	File		[project_directory]filename
TIME_DISTRIBUTION_FIELD_*	Text		
TIME_DISTRIBUTION_TYPE_*	Text	TRIP_START	TRIP_START, TRIP_END, MID_TRIP
TIME_PERIOD_RANGE_*	List	ALL	e.g., ALL, 0..97200 seconds, 0.0..27.0 hours, 0:00..27:00
TIME_SCHEDULE_CONSTRAINT_*	Text	START_TIME	NONE, START, ARRIVE, FIXED, DURATION, PASSENGER
ORIGIN_WEIGHT_FIELD_*	Text		
DESTINATION_WEIGHT_FIELD_*	Text		
DISTANCE_WEIGHT_FLAG_*	Bool	TRUE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
TRAVELER_TYPE_SCRIPT_*	File		[project_directory]filename
TRAVELER_TYPE_CODE_*	Int.	0	0..100
TRIP_PURPOSE_CODE_*	Int.	0	0..100
TRAVEL_MODE_CODE_*	Text	DRIVE	WALK, BIKE, DRIVE, RIDE, TRANSIT, PNR_OUT, PNR_IN, KNR_OUT, KNR_IN, TAXI, OTHER, HOV2, HOV3, HOV4
RETURN_TRIP_FLAG_*	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
ACTIVITY_DURATION_*	Time	0.0 hours	0.0, 0.25..24.0 hours
TRIP_PRIORITY_CODE_*	Text	MEDIUM	LOW, MEDIUM, HIGH, CRITICAL
VEHICLE_TYPE_CODE_*	Int.	1	0..100
VEHICLE_PASSENGERS_*	Int.	0	0..500
AVERAGE_TRAVEL_SPEED_*	Dec.	30.0 kph	3.0..100.0 kph
TRIP_FACTOR_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