PathSkim - Quick Reference

Version 5.0.12

Usage



PathSkim [-flag] [control_file] [partition]

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

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
NUMBER_OF_THREADS	Int.	1	124
PATHSKIM_REPORT_*	Text		program report name



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REQ? KEY	TYPE DEFAULT	VALUE RANGES
✓ NODE_FILE	File	[project_directory]filename
✓ LINK_FILE	File	[project_directory]filename
✓ CONNECTION_FILE	File	[project_directory]filename
✓ LOCATION_FILE	File	[project_directory]filename
ZONE_FILE	File	[project_directory]filename
POCKET_FILE	File	[project_directory]filename
LANE_USE_FILE	File	[project_directory]filename
TURN_PENALTY_FILE	File	[project_directory]filename
PARKING_FILE	File	[project_directory]filename
ACCESS_FILE	File	[project_directory]filename
TRANSIT_STOP_FILE	File	[project_directory]filename
TRANSIT_FARE_FILE	File	[project_directory]filename
TRANSIT_ROUTE_FILE	File	[project_directory]filename
TRANSIT_SCHEDULE_FILE	File	[project_directory]filename
SELECTION_FILE	File	[project_directory]filename.*
HOUSEHOLD_FILE	File	[project_directory]filename.*
LINK_DELAY_FILE	File	[project_directory]filename
VEHICLE_TYPE_FILE	File	[project_directory]filename
VEHICLE_FILE	File	[project_directory]filename.*
NEW_LINK_DELAY_FILE	File	[project_directory]filename
NEW_PROBLEM_FILE	File	[project_directory]filename.*
NEW_PLAN_FILE	File	[project_directory]filename.*
NEW_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





File Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
SKIM_OD_UNITS	Text	ZONES	DISTRICTS, ZONES, LOCATIONS
SKIM_TIME_PERIODS	List	ALL	e.g., ALL, 097200 seconds, 0.027.0 hours, 0:0027:00
SKIM_TIME_INCREMENT	Time	0 minutes	0, 2240 minutes
SKIM_TOTAL_TIME_FLAG	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
NEAREST_NEIGHBOR_FACTOR	Dec.	0.0	0.01.0
MERGE_TIME_PERIODS	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

Data Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
DAILY_WRAP_FLAG	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
SUMMARY_TIME_RANGES	Text	ALL	e.g., ALL, 097200 seconds, 0.027.0 hours, 0:0027:00
SUMMARY_TIME_INCREMENT	Time	15 minutes	0, 2240 minutes

Flow, Time Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
UPDATE_FLOW_RATES	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
UPDATE_TURNING_MOVEMENTS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
CLEAR_INPUT_FLOW_RATES	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
UPDATE_TRAVEL_TIMES	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
LINK_DELAY_UPDATE_RATE	Int.	0	-15000
LINK_DELAY_FLOW_FACTOR	Dec.	1.0	1100000
EQUATION_PARAMETERS_*	List	BPR, 0.15, 4.0, 0.75	BPR, 0.15, 4.0, 0.75





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REQ? KEY	TYPE	DEFAULT	VALUE RANGES
IMPEDANCE_SORT_METHOD	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
SAVE_ONLY_SKIMS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
WALK_PATH_DETAILS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
IGNORE_VEHICLE_ID	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
LIMIT_PARKING_ACCESS	Bool	TRUE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
IGNORE_TIME_CONSTRAINTS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
END_TIME_CONSTRAINT	Time	0 minutes	0360 minutes
IGNORE_ROUTING_PROBLEMS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
PERCENT_RANDOM_IMPEDANCE	Dec.	0.0 percent	0.0100.0 percent
HOUSEHOLD_TYPE_SCRIPT	File		[project_directory]filename
WALK_SPEED	Dec.	1.0 mps	0.54.0 mps
BICYCLE_SPEED	Dec.	4.0 mps	1.010.0 mps
WALK_TIME_VALUES_*	List	20.0 impedance/second	01000.0
BICYCLE_TIME_VALUES_*	List	15.0 impedance/second	01000.0
FIRST_WAIT_VALUES_*	List	20.0 impedance/second	01000.0
TRANSFER_WAIT_VALUES_*	List	20.0 impedance/second	01000.0
PARKING_TIME_VALUES_*	List	0.0 impedance/second	0.01000.0
VEHICLE_TIME_VALUES_*	List	10.0 impedance/second	01000.0
DISTANCE_VALUES_*	List	0.0 impedance/meter	0.01000.0
COST_VALUES_*	List	0.0 impedance/cent	0.01000.0
FACILITY_BIAS_FACTORS_*	List	1.0	0.52.0
LEFT_TURN_PENALTIES_*	List	0 impedance	010000
RIGHT_TURN_PENALTIES_*	List	0 impedance	010000
U_TURN_PENALTIES_*	List	0 impedance	010000
PARKING_PENALTY_FILE	File		[project_directory]filename
TRANSIT_PENALTY_FILE	File		[project_directory]filename
TRANSFER_PENALTIES_*	List	0 impedance	0100000





Router Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
STOP_WAITING_PENALTIES_*	List	0 impedance	0100000
STATION_WAITING_PENALTIES_*	List	0 impedance	0100000
BUS_BIAS_FACTORS_*	List	1.0	1.03.0
BUS_BIAS_CONSTANTS_*	List	0 impedance	010000
RAIL_BIAS_FACTORS_*	List	1.0	0.11.0
RAIL_BIAS_CONSTANTS_*	List	0 impedance	-10000
MAX_WALK_DISTANCES_*	List	2000 meters	10020000 meters
WALK_PENALTY_DISTANCES_*	List	2000 meters	10010000 meters
WALK_PENALTY_FACTOR	Dec.	0.0	0.025.0
MAX_BICYCLE_DISTANCES_*	List	10000 meters	100040000 meters
BIKE_PENALTY_DISTANCES_*	List	10000 meters	100020000 meters
BIKE_PENALTY_FACTOR	Dec.	0.0	0.025.0
MAX_WAIT_TIMES_*	List	60 minutes	5400 minutes
WAIT_PENALTY_TIMES_*	List	60 minutes	5200 minutes
WAIT_PENALTY_FACTOR	Dec.	0.0	0.025.0
MIN_WAIT_TIMES_*	List	0 seconds	03600 seconds
MAX_NUMBER_OF_TRANSFERS_*	Int.	3	010
MAX_NUMBER_OF_PATHS_*	Int.	4	110
MAX_PARK_RIDE_PERCENTAGE_*	Int.	50 percent	1100 percent
MAX_KISS_RIDE_PERCENTAGE_*	Int.	35 percent	1100 percent
KISS_RIDE_TIME_FACTOR_*	Dec.	2.5	1.04.4
KISS_RIDE_STOP_TYPES	Text	EXTERNAL	
MAX_KISS_RIDE_DROPOFF_WALK	Dec.	100 meters	10500 meters
MAX_LEGS_PER_PATH	Int.	1000	1010000
FARE_CLASS_DISTRIBUTION	List	0	
DEFAULT_PARKING_DURATION	List	0.0 hours	0.024.0 hours
LOCAL_ACCESS_DISTANCE	Dec.	2000 meters	1007500 meters





Router Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
LOCAL_FACILITY_TYPE	Text	EXTERNAL	MAJORLOCAL, EXTERNAL
LOCAL_IMPEDANCE_FACTOR	Dec.	0.0	0.025.0
MAX_CIRCUITY_RATIO	Dec.	0.0	0.010.0
MIN_CIRCUITY_DISTANCE	Dec.	2000 meters	010000 meters
MAX_CIRCUITY_DISTANCE	Dec.	20000 meters	0100000 meters
MIN_DURATION_FACTORS	List	0.1, 0.5, 0.8, 1.0	0.01.0

Control Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
ROUTE_FROM_SPECIFIED_LOCATIONS	List	ALL	
ROUTE_TO_SPECIFIED_LOCATIONS	List	ALL	
ROUTE_AT_SPECIFIED_TIMES	List	ALL	e.g., ALL, 097200 seconds, 0.027.0 hours, 0:0027:00
ROUTE_BY_TIME_INCREMENT	Time	0 minutes	0, 2240 minutes
ROUTE_WITH_TIME_CONSTRAINT	Text	START_TIME	NONE, START, ARRIVE, FIXED, DURATION, PASSENGER
ROUTE_WITH_SPECIFIED_MODE	Text	DRIVE	WALK, BIKE, DRIVE, RIDE, TRANSIT, PNR_OUT, PNR_IN, KNR_OUT, KNR_IN, TAXI, OTHER, HOV2, HOV3, HOV4
ROUTE_WITH_SPECIFIED_USE_TYPE	Text	CAR	ANY, WALK, BIKE, CAR, TRUCK, BUS, RAIL, SOV, HOV2, HOV3, HOV4, LIGHTTRUCK, HEAVYTRUCK, TAXI, RESTRICTED, NONE
ROUTE_FROM_SPECIFIED_ZONES	List	ALL	
ROUTE_TO_SPECIFIED_ZONES	List	ALL	
ORIGIN_LOCATIONS_PER_ZONE	Int.	0	0100
DESTINATION_LOCATIONS_PER_ZONE	Int.	0	0100
LOCATION_SELECTION_METHOD	Text	RANDOM	USER, RANDOM, CENTROID, DISTRIBUTED
ORIGIN_ZONE_FILE	File		[project_directory]filename
DESTINATION_ZONE_FILE	File		[project_directory]filename
ORIGIN_LOCATION_FILE	File		[project_directory]filename
DESTINATION_LOCATION_FILE	File		[project_directory]filename
NEW_ORIGIN_LOCATION_FILE	File		[project_directory]filename



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Control Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
NEW_DESTINATION_LOCATION_FILE	File		[project_directory]filename

Notes

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

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

