PlanSum - Quick Reference

Version 5.0.15

Usage

PlanSum [-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

1. Summarize the link demands generated by the Router.
2. Apply volume-delay equations to estimate link travel times.
3. Produce link volume, link delay, and turning movement files by time of day.
4. Produce zone or district trip tables and skim files by mode and time of day.
5. Summarize transit ridership demand by transit route, run, and stop.
6. Generate V/C ratio reports by link and link groups by time of day.
7. Create diurnal distributions of the start, end, and mid-trip times of each plan.
8. Expand travel statistics from survey plans to the total population.
9. Summarize transit transfer details.
10. Calculate intrazonal skim values based on a nearest neighbor factor.

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

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
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	1..24
PLANSUM_REPORT_*	Text		program report name

System File Keys

REQ?	KEY	TYPE	DEFAULT	VALUE RANGES
☑	PLAN_FILE	File		[project_directory]filename.*
	NODE_FILE	File		[project_directory]filename
	LINK_FILE	File		[project_directory]filename
	LANE_USE_FILE	File		[project_directory]filename
	CONNECTION_FILE	File		[project_directory]filename
	SELECTION_FILE	File		[project_directory]filename.*
	LINK_DELAY_FILE	File		[project_directory]filename
	VEHICLE_TYPE_FILE	File		[project_directory]filename
	NEW_LINK_DELAY_FILE	File		[project_directory]filename

File Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
ZONE_EQUIVALENCE_FILE	File		[project_directory]filename
LINK_EQUIVALENCE_FILE	File		[project_directory]filename
STOP_EQUIVALENCE_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, 0..97200 seconds, 0.0..27.0 hours, 0:00..27:00
SUMMARY_TIME_INCREMENT	Time	15 minutes	0, 2..240 minutes
PERIOD_CONTROL_POINT	Text	MID-TRIP	START, END, MID-TRIP

Select Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
SELECT_HOUSEHOLDS	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
SELECT_MODES	List	ALL	e.g., ALL or 1, 12..14 or WALK, HOV2..HOV4
SELECT_PURPOSES	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
SELECT_START_TIMES	List	ALL	e.g., ALL, 0..97200 seconds, 0.0..27.0 hours, 0:00..27:00
SELECT_END_TIMES	List	ALL	e.g., ALL, 0..97200 seconds, 0.0..27.0 hours, 0:00..27:00
SELECT_ORIGINS	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
SELECT_DESTINATIONS	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
SELECT_TRAVELER_TYPES	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
SELECT_LINKS_*	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
SELECT_NODES_*	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
SELECT_SUBAREA_POLYGON	File		[project_directory]filename
SELECTION_PERCENTAGE	Dec.	100.0 percent	0.01..100.0 percent

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
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_FLOW_FACTOR	Dec.	1.0	1..100000
EQUATION_PARAMETERS_*	List	BPR, 0.15, 4.0, 0.75	BPR, 0.15, 4.0, 0.75

Control Keys

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