PlanSum Quick Reference

Version 4.0.52

Revision History
1/8/2010 Edited by AECOM Consult, Inc.
4/15/2010 Edited by RSG, Inc.

Syntax:

PlanSum [-flag] [control_file] [partition]

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, and/or
10. Calculate intrazonal skim values based on a nearest neighbor factor.

Required Keys

PLAN_FILE	[project_directory]*filename*[.partition]

Optional Keys

TITLE	Text
REPORT_FILE	*Filename*
REPORT_FLAG	FALSE {true/false/yes/no/1/0}
MAX_WARNING_MESSAGES	100,000
MAX_WARNING_EXIT_FLAG	TRUE {true/false/yes/no/1/0}
PROJECT_DIRECTORY	*Pathname*
DEFAULT_FILE_FORMAT	VERSION3 {(4)}
TRAVELER_SCALING_FACTOR	100 {2..100}
NET_DIRECTORY	*Pathname*
NET_NODE_TABLE	[net_directory]*filename*
NET_LINK_TABLE	[net_directory]*filename*
NET_PARKING_TABLE	[net_directory]*filename*
NET_ACTIVITY_LOCATION_TABLE	[net_directory]*filename*
NET_LANE_CONNECTIVITY_TABLE	[net_directory]*filename*
NET_LANE_USE_TABLE	[net_directory]*filename*

NET_TRANSIT_STOP_TABLE	[net_directory]*filename*
NET_TRANSIT_ROUTE_TABLE	[net_directory]*filename*
NET_TRANSIT_SCHEDULE_TABLE	[net_directory]*filename*
NET_TRANSIT_DRIVER_TABLE	[net_directory]*filename*
SUMMARY_TIME_PERIODS	All (1)
SUMMARY_TIME_INCREMENT	15 minutes {0..240}
HOUSEHOLD_LIST	[project_directory]*filename*[.partition]
HOUSEHOLD_PERSON_COUNT (7)	[project_directory]*filename*[.partition]
LINK_DELAY_FILE	[project_directory]*filename*
VEHICLE_TYPE_FILE	[project_directory]*filename*
PLAN_FORMAT	VERSION3 {VERSION3/BINARY}
NODE_LIST_PATHS	TRUE {true/false/yes/no/1/0}
NEW_PLAN_FILE	[project_directory]*filename*
NEW_LINK_DELAY_FILE	[project_directory]*filename*
NEW_RIDERSHIP_FILE	[project_directory]*filename*
NEW_LINK_VOLUME_FILE	[project_directory]*filename*
OUTPUT_ALL_TRANSIT_STOPS	FALSE {true/false/yes/no/1/0} (11)
EQUATION_PARAMETERS_# (2)	BPR, 0.15, 4.0, 0.75 (3)
LINK_EQUIVALENCE_FILE	[project_directory]*filename*
NEW_TRIP_TIME_FILE	[project_directory]*filename*
NEW_ZONE_SKIM_FILE	[project_directory]*filename*
SKIM_TOTAL_TIME (8)	FALSE {true/false/yes/no/1/0}
SKIM_TRIP_LENGTH (8)	FALSE {true/false/yes/no/1/0}
SKIM_MODE_SELECTION	{1,2,3,4,5,6,7,8,9,10,11,12,13,14}
NEAREST_NEIGHBOR_FACTOR (9)	0.0 (disabled) {0.01..1.0}
NEW_TRIP_TABLE_FILE	[project_directory]*filename*
TRIP_MODE_SELECTION	{1,2,3,4,5,6,7,8,9,10,11,12,13,14}
ZONE_EQUIVALENCE_FILE (10)	[project_directory]*filename*
NEW_TURN_MOVEMENT_FILE	[project_directory]*filename*
TURN_NODE_RANGE	All {0..[node ID]} (5)
STOP_EQUIVALENCE_FILE	[project_directory]*filename*
NET_DEFAULT_FORMAT	[default_file_format] {(4)}
NET_NODE_FORMAT	[net_default_format] {(4)}
NET_LINK_FORMAT	[net_default_format] {(4)}
NET_PARKING_FORMAT	[net_default_format] {(4)}
NET_ACTIVITY_LOCATION_FORMAT	[net_default_format] {(4)}
NET_PROCESS_LINK_FORMAT	[net_default_format] {(4)}
NET_LANE_USE_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_STOP_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_ROUTE_FORMAT	[net_default_format] {(4)}

NET_TRANSIT_SCHEDULE_FORMAT	[net_default_format] {(4)}
DEMAND_FILE_FORMAT	[default_file_format] {(4)}
NEW_LINK_DELAY_FORMAT	[demand_file_format] {(4)}
NEW_RIDERSHIP_FORMAT	[demand_file_format] {(4)}
NEW_LINK_VOLUME_FORMAT	[default_file_format] {(4)}
NEW_ZONE_SKIM_FORMAT	[default_file_format] {(4)}
NEW_TRIP_TABLE_FORMAT	[default_file_format] {(4)}
NEW_TURN_MOVEMENT_FORMAT	[default_file_format] {(4)}

Reports

PLANSUM_REPORT_#	TOP_100_V/C_RATIOS
	ALL_V/C_RATIOS_GREATER_THAN_* (6)
	LINK_GROUP_V/C_RATIOS_* (6)
	PRINT_LINK_EQUIVALENCIES
	PRINT_ZONE_EQUIVALENCIES
	PRINT_STOP_EQUIVALENCIES
	TRANSIT_RIDERSHIP_SUMMARY
	TRANSIT_STOP_SUMMARY
	TRANSIT_TRANSFER_SUMMARY
	TRANSIT_STOP_GROUP_SUMMARY
	TRANSIT_PASSENGER_SUMMARY
	TRANSIT_LINK_GROUP_SUMMARY
	TRIP_TIME_REPORT
	TRAVEL_SUMMARY_REPORT
	TRANSIT_TRANSFER_DETAILS

Notes

1	Time Range (e.g., 0:00..6:00, 18:00..23:00)
2	# equals facility type code {1 = freeway, 2 = expressway, 3 = principal arterial, etc.}
3	{BPR, BPR_PLUS, EXPONENTIAL, CONICAL, BPR+, EXP, CON}, *A, B, C, D*
4	{VERSION3, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, LANL, SQLITE3}
5	ID Range (e.g., 1000, 2000, 3000..3100)
6	The "*" is replaced by a floating point V/C ratio criteria (e.g., _GREATER_THAN_1.2).
7	This file provided a replication count by household and person to generated weighted summary statistics for routed survey activity files.
8	By default, the zone skim file contains travel times by mode (walk, wait, drive, transit, other). If the total time key is true, a single time field is included in the output file with the total of the mode travel times. By default, the zone skim file also includes the travel cost, but not the travel distance. If the trip length key is true, the output file will include a trip length field.
9	By default, the intrazonal skims are based on the travel between origin and destination activity

	locations within the same zone. If only one activity location per zone is included plan file, all intrazonal values will be zero. This key permits the user to estimate the intrazonal values as a fraction of the travel times, distances, and costs to the nearest neighboring zone.
10	The zone equivalence file aggregates trips or skim values into summary districts.
11	For controlling the additional output of transit stop records in the new ridership file that have no passenger boardings and alightings at transit stops. These records may be useful to note the scheduled and estimated arrivals at such transit stops.