

# EventSum Quick Reference

## Version 4.0.5

Syntax:

***EventSum [-flag] [control\_file] [partition]***

Purpose:

1. Summarize the differences between scheduled and actual start times, arrival times, and travel times;
2. Generate difference distribution reports and data file by time period;
3. Generate travel time statistics for individual traveler trips and merge these data with the results of a previous run to quantify and summarize the travel time impacts of a given alternative on individual travelers.
4. Use a household list to select a subset of travelers to summarize;
5. Update the travel times recorded in the plan file based on the actual travel times generated by the Microsimulator;
6. Use schedule constraints from a trip or activity file to adjust the start times in the plan file to enable the trip to reach the destination on-time given the simulated travel time.
7. Use percent difference criteria to generate a list of households with significant difference between scheduled and actual travel time for re-routing; and
8. Report the travelers with the top 100 travel time differences.

## Required Keys

EVENT_FILE	[project_directory]filename[.partition]
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## Optional Keys

TITLE	Text
REPORT_FILE	<i>Filename</i>
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	<i>Pathname</i>
DEFAULT_FILE_FORMAT	VERSION3 {(3)}
TRAVELER_SCALING_FACTOR	100 {2..100}
TRAVEL_TIME_FILE	[project_directory]filename
NET_DIRECTORY	<i>Pathname</i>
NET_LINK_TABLE	[net_directory]filename
NET_ACTIVITY_LOCATION_TABLE	[net_directory]filename
TIME_OF_DAY_FORMAT	HOURS {(1)}
SUMMARY_TIME_PERIODS	All (2)
SUMMARY_TIME_INCREMENT	15 minutes {0..240}
HOUSEHOLD_LIST	[project_directory]filename[.partition]

TRIP_FILE	[project_directory]/filename
ACTIVITY_FILE	[project_directory]/filename
PLAN_FILE	[project_directory]/filename[.partition]
PLAN_FORMAT	VERSION3 {VERSION3/BINARY}
NODE_LIST_PATHS	TRUE {true/false/yes/no/1/0}
NEW_PLAN_FILE	[project_directory]/filename
NEW_PLAN_FORMAT	VERSION3 {VERSION3/BINARY}
NEW_HOUSEHOLD_LIST	[project_directory]/filename[.partition]
NEW_TRAVEL_TIME_FILE	[project_directory]/filename
NEW_TIME_SUMMARY_FILE	[project_directory]/filename
NEW_DISTRIBUTION_FILE	[project_directory]/filename
PERCENT_TIME_DIFFERENCE	10 percent {0.1..100.0}
MINIMUM_TIME_DIFFERENCE	1 minute {0..120}
MAXIMUM_TIME_DIFFERENCE	60 minutes {[minimum_time_difference]..1440}
SELECTION_PERCENTAGE	100 percent {0.1..100.0}
MAXIMUM_PERCENT_SELECTED	100 percent {1.0..100.0}
NET_DEFAULT_FORMAT	[default_file_format] {(3)}
NET_LINK_FORMAT	[net_default_format] {(3)}
NET_ACTIVITY_LOCATION_FORMAT	[net_default_format] {(3)}
DEMAND_FILE_FORMAT	[default_file_format] {(3)}
TRIP_FORMAT	[demand_file_format] {(3)}
ACTIVITY_FORMAT	[demand_file_format] {(3)}
EVENT_FORMAT	[demand_file_format] {(3)}
TRAVEL_TIME_FORMAT	[default_file_format] {(3)}
NEW_TRAVEL_TIME_FORMAT	[default_file_format] {(3)}
NEW_TIME_SUMMARY_FORMAT	[default_file_format] {(3)}

## Reports

EVENTSUM_REPORT_#	TOP_100_TRAVEL_TIME_DIFFERENCES
	TOTAL_DIFFERENCE_DISTRIBUTION
	TIME_DIFFERENCE_DISTRIBUTION
	TIME_PERIOD_SUMMARY

## Notes

1	{HOURS, SECONDS, 24_HOUR_CLOCK, 12_HOUR_CLOCK}
2	Time Range (e.g., 0:00..6:00, 18:00..23:00)
3	{VERSION3, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, LANL, SQLITE3}