# EventSum Quick Reference

**Version 4.0.8**

**Revision History**

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

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] |

## *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 {(3)} |
| TRAVELER_SCALING_FACTOR | 100 {2..100} |
| TRAVEL_TIME_FILE | [project_directory]*filename* |
| NET_DIRECTORY | *Pathname* |
| 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} |
| SELECT_TRIP_MODES | All (4) |
| SELECT_PLAN_MODES | All (4) |
| SELECT_HOUSEHOLD_RANGE | All (5) |
| COMBINE_EVENT_LEGS | FALSE {true/false/yes/no/1/0} |
| 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 |

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## *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} |
| 4 | 0 = drive, 1 = transit, 2 = walk, 3 = bike, 4 = activity, 5 = other, 6 = magic move, 7 = carpool, 8 = transit driver |
| 5 | ID Range (e.g., 1000, 2000, 3000..3100) |