

## **ActGen Quick Reference**

#### **Version 4.0.36**

#### **Revision History**

1/8/2010 Edited by AECOM Consult, Inc.

4/15/2010 Edited by RSG, Inc.

Syntax:

## ActGen [-flag] [control\_file] [partition]

#### Purpose:

- 1. Match synthetic households to survey households.
- 2. Assign survey activity patterns to individual members of the synthetic household.
- 3. Coordinate household activities and vehicle usage.
- 4. Apply location choice models to locate activities by purpose
- 5. Adjust activity schedules based on travel times and schedule constraints.
- 6. Create an activity file and a summary of activity generation problems.
- 7. Updated an activity file by regenerating selected household.
- 8. Output an activity pattern file for editing with ActivityPattern and then relocating with LocationChoice
- 9. Apply attraction balancing factors by zone and trip purpose.

## Required Keys

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_PROCESS_LINK_TABLE	[net_directory]filename
HOUSEHOLD_FILE	[project_directory]filename
POPULATION_FILE	[project_directory]filename
Vehicle_File	[project_directory]filename
VEHICLE_TYPE_FILE	[project_directory]filename
SURVEY_HOUSEHOLD_FILE	[project_directory]filename
SURVEY_POPULATION_FILE	[project_directory]filename
SURVEY_ACTIVITY_FILE	[project_directory]filename
NEW_ACTIVITY_FILE	[project_directory]filename
ACTIVITY_PURPOSE_RANGE_# (1)	[project_directory]filename

## **Optional Keys**

TITLE	Text
REPORT_FILE	Filename

MAX_WARNING_MESSAGES  IOQ.000  MAX_WARNING_EXIT_FLAG  TRUE [true/false/yes/no/1/0}  PROJECT_DIRECTORY  ACTIVITY_FILE (9)  [project_directory]filename [project_directory]filename [project_directory]filename  PROJECT_DIPERSOR [project_directory]filename    project_directory]filename   proje	REPORT_FLAG	FALSE {true/false/yes/no/1/0}
MAX_WARNING_EXIT_FLAG PROJECT_DIRECTORY PROJECT_DIRECTORY  DEFAULT_FILE_FORMAT VERSION3 {(2)}  ACTIVITY_FILE {(9)}  HOUSEHOLD_LIST [project_directory]filename [partition]  TIME_OF_DAY_FORMAT 24_HOUR_CLOCK {(3)}  HOUSEHOLD_TYPE_SCRIPT [project_directory]filename  SURVEY_HOUSEHOLD_WEIGHTS [project_directory]filename  SURVEY_HOUSEHOLD_WEIGHTS [project_directory]filename  SURVEY_HOUSEHOLD_MATCH_FILE [project_directory]filename  NEW_PROBLEM_FILE [project_directory]filename  NEW_HOUSEHOLD_PERSON_COUNT [project_directory]filename  NEW_ACTIVITY_PATTERN_FILE [project_directory]filename  NEW_ACTIVITY_PATTERN_FILE [project_directory]filename  NEW_TRIP_TIME_FILE [project_directory]filename  NEW_TRIP_DISTANCE_FILE [project_directory]filename  NEW_TRIP_LINE {(4)}  AVERAGE_TRAVEL_SPEED (8)  AVERAGE_TRAVEL_SPEED (8)  AVERAGE_TRAVEL_SPEED (8)  ANAIMM_MALK_DISTANCE  DOO_10.0.0000 meters  TIME_SCHEDULE_VARIANCE  ACTIVITY_ANCHOR_FLAG_#  FALSE [true/false/yes/no/1/0}  SCHEDULE_CONSTRAINT_#  NONE {(6)}  ZONE_BASED_METHOD_#  TRUE [true/false/yes/no/1/0}  SCHEDULE_CONSTRAINT_#  TRUE [true/false/yes/no/1/0}  AVERAGE_TRAVEL_TRUE_FILED_#  JERIAL JAME  JO {}  JO {}		•
PROJECT_DIRECTORY		· ·
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NEW_PROBLEM_FILE   [project_directory]filename   NEW_HOUSEHOLD_MATCH_FILE   [project_directory]filename   NEW_HOUSEHOLD_PERSON_COUNT   [project_directory]filename   NEW_ACTIVITY_PATTERN_FILE   [project_directory]filename   NEW_TRIP_TIME_FILE   [project_directory]filename   NEW_TRIP_DISTANCE_FILE   NOON_0,600, second (5)   NEW_TRIP_DISTANCE_FILE   NOON_0,600, second (5)   NEW_TRIP_DISTANCE_FILE   NOON_0,600, seconds (5)   NEW_TRIP_DISTANCE_FILE   NEW_TRIP_DISTANCE_FILE   NEW_TRIP_DISTANCE_FILE   NEW_TRIP_DISTANCE_FILE   NOON_0,600, seconds (5)   NOON_0,600, second (5)   NOON_0,600,		
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BALANCING_FACTOR_FIELD_#  LOCATION_WEIGHT_FIELD_#  LOCATION_WEIGHT_FACTOR_#  SKIM_TIME_FIELD_#  MODE_DISTANCE_FACTORS_#  -0.001, -0.001, {> 0 (5)}  MODE_TIME_FACTORS_#  -0.001, -0.001, {> 0 (5)}  ZONE_SKIM_FILE_# (7)  [project_directory]filename  ZONE_SKIM_FORMAT_#  [default_file_format] {(2)}  TIME_PERIOD_EQUIVALANCE_#  [project_directory]filename  SKIM#,field_name		
LOCATION_WEIGHT_FACTOR_#  SKIM_TIME_FIELD_#  SKIM#.field_name  MODE_DISTANCE_FACTORS_#  -0.001, -0.001, {> 0 (5)}  MODE_TIME_FACTORS_#  -0.001, -0.001, {> 0 (5)}  ZONE_SKIM_FILE_# (7)  [project_directory]filename  ZONE_SKIM_FORMAT_#  [default_file_format] {(2)}  TIME_PERIOD_EQUIVALANCE_#  [project_directory]filename  TRAVEL_TIME_FIELD_MODE_# (8)  SKIM#.field_name		field_name
LOCATION_WEIGHT_FACTOR_#  SKIM_TIME_FIELD_#  SKIM#.field_name  MODE_DISTANCE_FACTORS_#  -0.001, -0.001, {> 0 (5)}  MODE_TIME_FACTORS_#  -0.001, -0.001, {> 0 (5)}  ZONE_SKIM_FILE_# (7)  [project_directory]filename  ZONE_SKIM_FORMAT_#  [default_file_format] {(2)}  TIME_PERIOD_EQUIVALANCE_#  [project_directory]filename  TRAVEL_TIME_FIELD_MODE_# (8)  SKIM#.field_name	LOCATION WEIGHT FIELD #	field_name
MODE_DISTANCE_FACTORS_# -0.001, -0.001, {> 0 (5)}  MODE_TIME_FACTORS_# -0.001, -0.001, {> 0 (5)}  ZONE_SKIM_FILE_# (7) [project_directory] filename  ZONE_SKIM_FORMAT_# [default_file_format] {(2)}  TIME_PERIOD_EQUIVALANCE_# [project_directory] filename  TRAVEL_TIME_FIELD_MODE_# (8)  SKIM#.field_name		
MODE_TIME_FACTORS_# -0.001, -0.001, {> 0 (5)}  ZONE_SKIM_FILE_# (7) [project_directory]filename  ZONE_SKIM_FORMAT_# [default_file_format] {(2)}  TIME_PERIOD_EQUIVALANCE_# [project_directory]filename  TRAVEL_TIME_FIELD_MODE_# (8)  SKIM#.field_name		
MODE_TIME_FACTORS_# -0.001, -0.001, {> 0 (5)}  ZONE_SKIM_FILE_# (7) [project_directory]filename  ZONE_SKIM_FORMAT_# [default_file_format] {(2)}  TIME_PERIOD_EQUIVALANCE_# [project_directory]filename  TRAVEL_TIME_FIELD_MODE_# (8)  SKIM#.field_name	MODE_DISTANCE_FACTORS #	-0.001, -0.001, {> 0 (5)}
ZONE_SKIM_FILE_# (7) [project_directory]filename  ZONE_SKIM_FORMAT_# [default_file_format] {(2)}  TIME_PERIOD_EQUIVALANCE_# [project_directory]filename  TRAVEL_TIME_FIELD_MODE_# (8) SKIM#.field_name	MODE TIME FACTORS #	
ZONE_SKIM_FORMAT_# [default_file_format] {(2)}  TIME_PERIOD_EQUIVALANCE_# [project_directory] filename  TRAVEL_TIME_FIELD_MODE_# (8) SKIM#.field_name	ZONE_SKIM_FILE_# (7)	
TIME_PERIOD_EQUIVALANCE_# [project_directory]filename  TRAVEL_TIME_FIELD_MODE_# (8) SKIM#.field_name		
TRAVEL_TIME_FIELD_MODE_# (8) SKIM#.field_name		
, , , , , , , , , , , , , , , , ,		



BALANCING_FACTOR_FILE	[project_directory]filename
BALANCING_FACTOR_FORMAT	[default_file_format] {(2)}
NET_DIRECTORY	Pathname
NET_ZONE_TABLE	[net_directory]filename
NET_TRANSIT_STOP_TABLE	[net_directory]filename
NET_DEFAULT_FORMAT	[default_file_format] {(2)}
NET_NODE_FORMAT	[net_default_format] {(2)}
NET_LINK_FORMAT	[net_default_format] {(2)}
NET_PARKING_FORMAT	[net_default_format] {(2)}
NET_ACTIVITY_LOCATION_FORMAT	[net_default_format] {(2)}
NET_PROCESS_LINK_FORMAT	[net_default_format] {(2)}
NET_ZONE_FORMAT	[net_default_format] {(2)}
NET_TRANSIT_STOP_FORMAT	[net_default_format] {(2)}
New_Default_Format	[default_file_format] {(2)}
NEW_ACTIVITY_FORMAT	[new_default_format] {(2)}
New_Problem_Format	[new_default_format] {(2)}
NEW_ACTIVITY_PATTERN_FORMAT	[new_default_format] {(2)}
SURVEY_HOUSEHOLD_FORMAT	[default_file_format] {(2)}
SURVEY_POPULATION_FORMAT	[default_file_format] {(2)}
SURVEY_ACTIVITY_FORMAT	[default_file_format] {(2)}
ACTIVITY_FORMAT	[default_file_format] {(2)}
HOUSEHOLD_FORMAT	[default_file_format] {(2)}
POPULATION_FORMAT	[default_file_format] {(2)}
VEHICLE_FORMAT	[default_file_format] {(2)}
VEHICLE_TYPE_FORMAT	[default_file_format] {(2)}

# Reports

ACTGEN_REPORT_#	HOUSEHOLD_TYPE_SCRIPT
	HOUSEHOLD_TYPE_STACK
	HOUSEHOLD_TYPE_SUMMARY
	SURVEY_TYPE_SCRIPT
	SURVEY_TYPE_STACK
	SURVEY_TYPE_SUMMARY
	LOCATION_CHOICE_SCRIPT
	LOCATION_CHOICE_STACK
	LOCATION_CHOICE_DETAILS_#
	TIME_PERIOD_EQUIVALENCE
	HOUSEHOLD_MATCH_REPORT
	TRIP_LENGTH_SUMMARY
	TOUR_LENGTH_SUMMARY



TRIP_PURPOSE_SUMMARY
TOUR_PURPOSE_SUMMARY
MODE_LENGTH_SUMMARY
MODE_PURPOSE_SUMMARY
ACTIVITY_PROBLEM_REPORT

## Notes

1	Each activity purpose group is comprised of up to 12 keys.	
2	{VERSION3, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, LANL, SQLITE3}	
3	{HOURS, SECONDS, 24_HOUR_CLOCK, 12_HOUR_CLOCK}	
4	{STRAIGHT_LINE, RIGHT_ANGLE, SIMPLE_AVERAGE, WEIGHTED_AVERAGE}	
5	1=Walk, 2=Drive, 3=Bus, 4=Rail, 5=Park-&-Ride Outbound, 6=Park-&-Ride Inbound, 7=Bicycle, 8=Magic Move, 9=School Bus, 10=2 Person Carpool, 11=3 Person Carpool, 12=4 Person Carpool, 13=Kiss-&-Ride Outbound, and 14=Kiss-&-Ride Inbound	
6	{NONE, FIXED, START, END, DURATION, PASSENGER, NO_CONSTRAINT, FIXED_TIME, START_TIME, END_TIME	
7	Zone skim groups are optional. They are used for travel time-based models and fields.	
8	Travel time field by mode groups are used to specify the field in the zone skim file that is used for the travel time calculation for a given mode. This overrides the default distance-based travel time estimate. The additional travel time key is added to either estimate to schedule activities.	
9	An input activity file is used to update or regenerated activities for selected households	
10	Initial memory allocation for the skim file is zones * zones * periods * factor. The factor is used to estimate the relative density of the skim matrix (e.g., the percentage of cells with data). Allocating sufficient memory up front has significant performance benefits for processing the skim file.	

