

ArcPlan Quick Reference

Version 4.0.21

Revision History

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

4/15/2010 Edited by RSG, Inc.

Syntax:

ArcPlan [-flag] [control_file] [partition]

Purpose:

- 1. Create ArcView shapefiles showing the paths from selected records in TRANSIMS plan files.
- 2. Use the Microsimulator problem file to select problem plans and draw ArcView shapefiles for the problem locations.
- 3. Create shapefiles showing the vehicle demand on links from selected plans as a bandwidth plot.
- 4. Create shapefiles showing travel time contours from a given origin to all destinations.
- 5. Create shapefiles showing trip length contours from a given origin to all destinations.
- 6. Create shapefiles showing the travel time and trip distance from a given origin to all activity locations.
- 7. Create shapefiles summarizing the transit ridership on network link segments as polylines or ridership bandwidths.
- 8. Create shapefiles summarizing the transit boardings and alightings at selected transit stops.
- 9. Create shapefiles aggregating the transit boardings and alightings from groups of transit stops.
- 10. Create shapefiles summarizing the vehicle arrivals and departures at selected parking lots.

Required Keys

PLAN_FILE	[project_directory]filename[.partition]
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

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 {2100}
NET_DIRECTORY	Pathname

NET_TRANSIT_BOUTE_TABLE Inet_directory filename NET_TRANSIT_DRIVER_TABLE Inet_directory filename NET_TRANSIT_DRIVER_TABLE Inet_directory filename NET_TRANSIT_DRIVER_TABLE Inet_directory filename NET_TRANSIT_DRIVER_TABLE Inet_directory filename ILINK_DELAY_FILE Iproject_directory filename HOUSEHOLD_LIST Iproject_directory filename HOUSEHOLD_LIST Iproject_directory filename NET_TRANSIT_DRIVER_TATLS TRUE Itrueffalse/yes/no/1/0 PLAN_FORMAT VERSION3 (VERSION3/BINARY) NODE_LIST_PATHS TRUE Itrueffalse/yes/no/1/0 PROBLEM_FILE Iproject_directory filename.shp (1) ARCVIEW_PLAN_FILE Iproject_directory filename.shp (1) ARCVIEW_PLAN_FILE Iproject_directory filename.shp (1) ARCVIEW_ANDMUDTH_FILE Iproject_directory filename.shp (1) ARCVIEW_DISTANCE_CONTOUR Iproject_directory filename.shp (1) ARCVIEW_ACCESSIBILITY_FILE Iproject_directory filename.shp (1) ARCVIEW_RIDERSHIP_FILE Iproject_directory filename.shp (1) ARCVIEW_STOP_DEMAND_FILE Iproject_directory filename.shp (1) ARCVIEW_STOP_DEMAND_FILE Iproject_directory filename.shp (1) ARCVIEW_PARKING_DEMAND_FILE Iproject_directory	NET_SHAPE_TABLE	[net_directory]filename
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MINIMUM_BANDWIDTH_VALUE 0 trips {0100,000}	BANDWIDTH_SCALING_FACTOR	1.0 trips / meter {0.01100,000}
MINIMUM_BANDWIDTH_SIZE 0.1 meters {0.00110}		0 trips {0100,000}
	MINIMUM_BANDWIDTH_SIZE	0.1 meters {0.00110}



MAXIMUM_BANDWIDTH_SIZE	1000 meters {110,000}
MAXIMUM_SHAPE_ANGLE	45 degrees {5120}
MINIMUM_SHAPE_LENGTH	5 meters {150}
CONTOUR_TIME_INCREMENTS	0 seconds (086400) (9)
CONTOUR_DISTANCE_INCREMENTS	0 meters (101,000,000) (9)
RIDERSHIP_SCALING_FACTOR	1.0 rider / meter {0.01100,000}
MINIMUM_BANDWIDTH_VALUE	0 riders {0100,000}
MINIMUM_BANDWIDTH_SIZE	0.1 meters {0.00110}
MAXIMUM_BANDWIDTH_SIZE	1000 meters {110,000}
STOP_EQUIVALENCE_FILE	[project_directory]filename (11)
INPUT_COORDINATE_SYSTEM	System, Code, Units (7)
INPUT_ADJUSTMENT_FACTORS	X offset, Y offset, X factor, Y factor (8)
OUTPUT_COORDINATE_SYSTEM	System, Code, Units (7)
OUTPUT_ADJUSTMENT_FACTORS	X offset, Y offset, X factor, Y factor (8)
OUTPUT_XYZ_SHAPES	FALSE {true/false/yes/no/1/0}
OUTPUT_XYM_SHAPES	FALSE {true/false/yes/no/1/0}
NET_DEFAULT_FORMAT	[default_file_format] {(4)}
NET_NODE_FORMAT	[net_default_format] {(4)}
NET_LINK_FORMAT	[net_default_format] {(4)}
NET_SHAPE_FORMAT	[net_default_format] {(4)}
NET_LANE_CONNECTIVITY_FORMAT	[net_default_format] {(4)}
NET_PARKING_FORMAT	[net_default_format] {(4)}
NET_ACTIVITY_LOCATION_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_STOP_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_ROUTE_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_DRIVER_FORMAT	[net_default_format] {(4)}
PROBLEM_FORMAT	[default_file_format] {(4)}

Notes

1	*.shp, *.shx, *.dbf, and *.dbf.def files are created based on the filename
2	ID Range (e.g., 1000, 2000, 30003100)
3	Time Range (e.g., 0:006:00, 18:0023:00)
4	{VERSION3, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, LANL, SQLITE3}
5	{HOURS, SECONDS, 24_HOUR_CLOCK, 12_HOUR_CLOCK}
6	PATH_BUILDING, TIME_SCHEDULE, ZERO_NODE, VEHICLE_TYPE, PATH_CIRCUITY, TRAVEL_MODE, VEHICLE_ACCESS, WALK_DISTANCE, WAIT_TIME, WALK_ACCESS, PATH_SIZE, PARK-&-RIDE_LOT, BIKE_DISTANCE, DEPARTURE_TIME, ARRIVAL_TIME, LINK_ACCESS, LANE_CONNECTIVITY, PARKING_ACCESS, LANE_MERGING, LANE_CHANGING, TURNING_SPEED, POCKET_MERGE, VEHICLE_SPACING, TRAFFIC_CONTROL, ACCESS_RESTRICTION



7	System options include: UTM, STATEPLAN, and LATLONG Code is the FIPS code number for the system (e.g., Oregon North = 3601) Unit options include: FEET, METERS, MILES, KILOMETERS, DEGREES, and MILLION_DEGREES.
8	X and Y offsets are added to the coordinate values X and Y factors are multiply the coordinate values
9	One or more values can be specified. For example, 100, 300, 500. The last value is interpreted as additional increments if proceed by a "*" (e.g., 100, 300, 500, *1000).
10	{BUS, LOCAL_BUS, EXPRESS, EXPRESS_BUS, TROLLEY, STREETCAR, LIGHTRAIL, RAPIDRAIL, REGIONRAIL}
11	Required for Stop Group processing
12	Non-partitioned household list can be used with partitioned plan files.

