ArcNet Quick Reference

Version 4.0.22

Revision History

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

Syntax:

ArcNet [-flag] [control_file]

Purpose:
1. Create ArcView shapefiles from TRANSIMS nodes, links, shape, lane-use, activity locations, parking, process links, pocket lanes, lane connectivity, turn prohibition, unsignalized nodes, signalized nodes, detector, transit routes, transit stop, transit driver, route header, and route nodes files.
2. Draw links and link-related attributes using individual lanes.
3. Draw transit routes using a different offset for each route.
4. Draw the network attributes associates with a specific time period.

Required Keys

NET_NODE_TABLE	[net_directory]*filename*
NET_LINK_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)}
NET_DIRECTORY	*Pathname*
NET_ZONE_TABLE	[net_directory]*filename*
NET_SHAPE_TABLE	[net_directory]*filename*
NET_LANE_USE_TABLE	[net_directory]*filename*
NET_POCKET_LANE_TABLE	[net_directory]*filename*
NET_LANE_CONNECTIVITY_TABLE	[net_directory]*filename*
NET_PARKING_TABLE	[net_directory]*filename*
NET_ACTIVITY_LOCATION_TABLE	[net_directory]*filename*
NET_PROCESS_LINK_TABLE	[net_directory]*filename*
NET_TURN_PROHIBITION_TABLE	[net_directory]*filename*

NET_TOLL_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*
NET_UNSIGNALIZED_NODE_TABLE	[net_directory]*filename*
NET_SIGNALIZED_NODE_TABLE	[net_directory]*filename*
NET_TIMING_PLAN_TABLE	[net_directory]*filename*
NET_PHASING_PLAN_TABLE	[net_directory]*filename*
NET_DETECTOR_TABLE	[net_directory]*filename*
NET_SIGNAL_COORDINATOR_TABLE	[net_directory]*filename*
ROUTER_HEADER_FILE	[net_directory]*filename*
ROUTER_NODES_FILE	[net_directory]*filename*
SUBZONE_DATA_FILE	[project_directory]*filename*
ARCVIEW_DIRECTORY (1)	*Pathname*
DRAW_NETWORK_LANES (2)	FALSE {true/false/yes/no/1/0}
LANE_WIDTH (2)(3)	1.0 meters {0.0..25.0}
CENTER_ONEWAY_LINKS	FALSE {true/false/yes/no/1/0}
LINK_DIRECTION_OFFSET (2)	0.0 meters {0.0..15.0}
POCKET_LANE_SIDE_OFFSET	2.0 meters {0.0..25.0}
PARKING_SIDE_OFFSET	5.0 meters {0.0..50.0}
ACTIVITY_LOCATION_SIDE_OFFSET	15.0 meters {0.0..100.0}
UNSIGNALIZED_NODE_SIDE_OFFSET	10.0 meters {0.0..75.0}
UNSIGNALIZED_NODE_SETBACK	25.0 meters {0.0..100.0}
TRANSIT_STOP_SIDE_OFFSET	5.0 meters {0.0..50.0}
TRANSIT_DIRECTION_OFFSET	0.0 meters {0.0..15.0}
TRANSIT_TIME_PERIODS	24:00 {time period break points}
TRANSIT_OVERLAP_FLAG	TRUE {true/false/yes/no/1/0} (7)
VISUALIZER_GUIDEWAY_FILE	[project_directory]*filename*
DRAW_ONEWAY_ARROWS	FALSE {true/false/yes/no/1/0}
ONEWAY_ARROW_LENGTH	Lane_width * 2 meters
ONEWAY_ARROW_SIDE_OFFSET	Lane width / 2 meters
SELECT_TIME_PERIOD	All (8)
INPUT_COORDINATE_SYSTEM	System, Code, Units (5)
INPUT_ADJUSTMENT_FACTORS	X offset, Y offset, X factor, Y factor (6)
OUTPUT_COORDINATE_SYSTEM	System, Code, Units (5)
OUTPUT_ADJUSTMENT_FACTORS	X offset, Y offset, X factor, Y factor (6)
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)}

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NET_NODE_FORMAT	[net_default_format] {(4)}
NET_LINK_FORMAT	[net_default_format] {(4)}
NET_ZONE_FORMAT	[net_default_format] {(4)}
NET_SHAPE_FORMAT	[net_default_format] {(4)}
NET_LANE_USE_FORMAT	[net_default_format] {(4)}
NET_POCKET_LANE_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_PROCESS_LINK_FORMAT	[net_default_format] {(4)}
NET_TURN_PROHIBITION_FORMAT	[net_default_format] {(4)}
NET_TOLL_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)}
NET_TRANSIT_DRIVER_FORMAT	[net_default_format] {(4)}
NET_UNSIGNALIZED_NODE_FORMAT	[net_default_format] {(4)}
NET_SIGNALIZED_NODE_FORMAT	[net_default_format] {(4)}
NET_TIMING_PLAN_FORMAT	[net_default_format] {(4)}
NET_PHASING_PLAN_FORMAT	[net_default_format] {(4)}
NET_DETECTOR_FORMAT	[net_default_format] {(4)}
NET_SIGNAL_COORDINATOR_FORMAT	[net_default_format] {(4)}
ROUTE_HEADER_FORMAT	[net_default_format] {(4)}
ROUTE_NODES_FORMAT	[net_default_format] {(4)}

Notes

1	*.shp, *.shx, *.dbf, and *.dbf.def files are created for each network file and store in this directory
2	if draw network lanes is true, lane width must be greater than zero and link direction offset is ignored.
3	Lane width is used for lane connectivity shapes even if draw network lanes is false
4	{VERSION3, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, LANL, SQLITE3}
5	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.
6	X and Y offsets are added to the coordinate values X and Y factors are multiply the coordinate values
7	If the overlap flag is FALSE, each transit route is draw at a different offset on the link
8	Time Range (e.g., 6:00..9:00)

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