

ArcNet Quick Reference

Version 4.0.21

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] <i>filename</i>
NET_UNSIGNALIZED_NODE_TABLE	[net_directory] <i>filename</i>
NET_SIGNALIZED_NODE_TABLE	[net_directory] <i>filename</i>
NET_TIMING_PLAN_TABLE	[net_directory] <i>filename</i>
NET_PHASING_PLAN_TABLE	[net_directory] <i>filename</i>
NET_DETECTOR_TABLE	[net_directory] <i>filename</i>
NET_SIGNAL_COORDINATOR_TABLE	[net_directory] <i>filename</i>
ROUTER_HEADER_FILE	[net_directory] <i>filename</i>
ROUTER_NODES_FILE	[net_directory] <i>filename</i>
SUBZONE_DATA_FILE	[project_directory] <i>filename</i>
ARCVIEW_DIRECTORY (1)	<i>Pathname</i>
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] <i>filename</i>
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)}
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)