

# NewFormat

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Version 5.0.20

## Revision History

July 2013 - Created by Volpe Center

The **NewFormat** program is used to convert TRANSIMS version 4 files to version 5 files. More specifically, it

1. Converts Version 4 transit driver plans to a Version 5 transit driver file.
2. Converts a Version 4 population file to a Version 5 household and population file
3. Converts a Version 4 activity file to a Version 5 activity file
4. Converts a Version 4 survey activity file to a Version 5 survey activity file
5. Convert the X-Y coordinates in a survey activity file to the TRANSIMS coordinate system and then match the location to the nearest activity location.
6. Estimates locations for activities without coordinates based on the prior and following activity locations and excluded households located outside the modeling region.

Syntax is `NewFormat [-flag] [control_file]`

The `control_file` is the file name of an ASCII file that contains the control strings expected by the program. The `control_file` is optional. If a file name is not provided, the program will prompt the user to enter a file name. The flag parameters are also optional. Any combination of the following flag parameters can be included on the command line:

### Optional Flags:

- Q[uiet] = execute without screen messages
- H[elp] = show program syntax and control keys
- C[ontrol] = create/update a default control file
- K[eyCheck] = list unrecognized control file keys
- P[ause] = pause before exiting
- N[oPause] = never pause before exiting
- D[etail] = execute with detailed status messages
- X[ML] = write an XML file with control keys

The program automatically creates a printout file based on the control file name. If the filename includes an extension (e.g., ".ctl"), the extension is replaced with ".prn". The printout file will be created in the current working directory and will overwrite an existing file with the same name.

## Version 5 Features

NewFormat is a new program that facilitates the conversion of Version 4 TRANSIMS models to Version 5. Since the files are read into memory before being written, large files should be processed separately.

It should be noted that since most TRANSIMS files are compatible between versions 4 and 5, it may not be necessary to use NewFormat to convert a model from Version 4 to Version 5. For example, with the exception of the Toll file, TRANSIMS version 5 automatically converts version 4 network files on input. Many demand files will also be converted automatically. Important exceptions (which would require the use of NewFormat for conversion) include the Plan, Popula-

tion and Activity files. Furthermore, Vehicle, Trip and Vehicle Type files may not automatically convert, especially if vehicle subtypes are used.

VERSION4\_ROUTER\_HEADER and VERSION4\_ROUTE\_NODES keys were added and NEW\_ROUTE\_NODES output was implemented. The Route Nodes conversion includes additional data fields and the vehicle type conversion was improved. COPY\_EXISTING\_FIELDS is a TRUE/FALSE key that was added to copy user data fields from the input location and zone files to the output files. Logic was added to set the output nesting format equal to the input nesting format for the link delay and performance file conversions. VERSION4\_TIME\_FORMAT key was added to override the default time conversion in Trip and Activity files from seconds to some other units.

SNAPSHOT\_FILE, NEW\_SHAPSHOT\_FILE, NEW\_SHAPSHOT\_FORMAT, and NEW\_SNAPSHOT\_COMPRESSION keys were added to convert Version 4 or Version 5 (compressed or uncompressed) snapshot files to Version 5 compressed or uncompressed formats.

A warning message is generated when Version 4 plan files and plan sorting are specified. Threads were implemented for Version 4 plan file conversion. The Depart and Arrive fields in the output plan file were populated from the Version 4 start and end fields. Node-based plan files were converted to link-based plan files. Distance estimates were added to the Plan file conversion. Corrected pocket lane logic was included. The plan file conversion routine was enhanced to distribute the total travel time and impedance to each link based on the sum of the link lengths and free flow travel times. Parking lot offsets were used to provide a more accurate estimate of travel time and length in converting Plan file.

PLAN\_SORT\_TYPE was changed to TRIP\_SORT\_TYPE. TRIP\_SORT\_TYPE defaults to DO\_NOT\_SORT. Other valid values for this parameter include TRAVELER\_SORT and TIME\_SORT.

The FLATTEN\_OUTPUT\_FLAG key was added to flatten nested data files. This key applies to the following files: SHAPE, PARKING, SIGNAL, TIMING\_PLAN, PHASING\_PLAN, TRANSIT\_SCHEDULE, TRANSIT\_DRIVER, ROUTE\_NODES, HOUSEHOLD, LINK\_DELAY, PERFORMANCE, PLAN. To see the impact of this flag consider the following examples.

New\_Shape file with FLATTEN\_OUTPUT\_FLAG set to FALSE:

LINK	POINTS	NOTES
X_COORD	Y_COORD	
4206	2	
179794.6	4768278.6	
179548.5	4768013.4	
4207	3	
180318.7	4768736.6	
180445.2	4768817.6	
180607.3	4768932.9	

New\_Shape file with FLATTEN\_OUTPUT\_FLAG set to TRUE:

LINK	POINTS	NOTES	X_COORD	Y_COORD
4206	2	179794.6	4768278.6	
4206	2	179548.5	4768013.4	
4207	3	180318.7	4768736.6	
4207	3	180445.2	4768817.6	
4207	3	180607.3	4768932.9	

## Known Bugs:

Program crashes when a NEW\_LANE\_USE\_FILE is requested. The FLATTEN\_OUTPUT\_FLAG does not appear to have any impact on the version 4 to version 5 plan conversion.

## Control Key List

The list of control file keys appears in the tables below:

- Req / Opt indicates whether the key is **required** or **optional**
- The types include **Text**, Input **Filename**, **New** file, **Boolean**, **Path** (to a file), **Time**, **Integer**, **Decimal**, and **List** of items
- The Default is the default value, used if the key does not appear in the control file.
- I/O/P indicates Input, Output or Parameter.

For a more detailed description of the Parameter control keys, refer to the Parameter Reference. For a more detailed description of the Input or Output control keys, refer to the File Reference. These two documents also provide the possible values or range of values allowed for each control key listed below. For instance, files can usually be output to numerous formats beyond TAB\_DELIMITED for additional post-processing / file manipulation actions.

## Configuration Keys

Control File Keys:	Req/Opt	Type	Default	I/O/P
TITLE	Opt	Text		P
REPORT_DIRECTORY	Opt	Path		O
REPORT_FILE	Opt	New		P
REPORT_FLAG	Opt	Bool	FALSE	P
PAGE_LENGTH	Opt	Int.	65	P
PROJECT_DIRECTORY	Opt	Path		P
DEFAULT_FILE_FORMAT	Opt	Text	TAB_DELIMITED	P
TIME_OF_DAY_FORMAT	Opt	Text	DAY_TIME	P
MODEL_START_TIME	Opt	Time	0:00	P
MODEL_END_TIME	Opt	Time	24:00:00	P
MODEL_TIME_INCREMENT	Opt	Time	15 minutes	P
UNITS_OF_MEASURE	Opt	Text	METRIC	P
RANDOM_NUMBER_SEED	Opt	Int.	0	P
MAX_WARNING_MESSAGES	Opt	Int.	100000	P
MAX_WARNING_EXIT_FLAG	Opt	Bool	TRUE	P
MAX_PROBLEM_COUNT	Opt	Int.	0	P
NUMBER_OF_THREADS	Opt	Int.	1	P

## System File Keys

Control File Keys:	Req/Opt	Type	Default	I/O/P
NODE_FILE	Opt	File		I
NODE_FORMAT	Opt	Text	TAB_DELIMITED	P
ZONE_FILE	Opt	File		I
ZONE_FORMAT	Opt	Text	TAB_DELIMITED	P
LINK_FILE	Opt	File		I

<b>Control File Keys:</b>	<b>Req/Opt</b>	<b>Type</b>	<b>Default</b>	<b>I/O/P</b>
LINK_FORMAT	Opt	Text	TAB_DELIMITED	P
POCKET_FILE	Opt	File		I
POCKET_FORMAT	Opt	Text	TAB_DELIMITED	P
SHAPE_FILE	Opt	File		I
SHAPE_FORMAT	Opt	Text	TAB_DELIMITED	P
LANE_USE_FILE	Opt	File		I
LANE_USE_FORMAT	Opt	Text	TAB_DELIMITED	P
CONNECTION_FILE	Opt	File		I
CONNECTION_FORMAT	Opt	Text	TAB_DELIMITED	P
TURN_PENALTY_FILE	Opt	File		I
TURN_PENALTY_FORMAT	Opt	Text	TAB_DELIMITED	P
PARKING_FILE	Opt	File		I
PARKING_FORMAT	Opt	Text	TAB_DELIMITED	P
LOCATION_FILE	Opt	File		I
LOCATION_FORMAT	Opt	Text	TAB_DELIMITED	P
ACCESS_FILE	Opt	File		I
ACCESS_FORMAT	Opt	Text	TAB_DELIMITED	P
SIGN_FILE	Opt	File		I
SIGN_FORMAT	Opt	Text	TAB_DELIMITED	P
SIGNAL_FILE	Opt	File		I
SIGNAL_FORMAT	Opt	Text	TAB_DELIMITED	P
TIMING_PLAN_FILE	Opt	File		I
TIMING_PLAN_FORMAT	Opt	Text	TAB_DELIMITED	P
PHASING_PLAN_FILE	Opt	File		I
PHASING_PLAN_FORMAT	Opt	Text	TAB_DELIMITED	P
DETECTOR_FILE	Opt	File		I
DETECTOR_FORMAT	Opt	Text	TAB_DELIMITED	P
TRANSIT_STOP_FILE	Opt	File		I
TRANSIT_STOP_FORMAT	Opt	Text	TAB_DELIMITED	P
TRANSIT_FARE_FILE	Opt	File		I
TRANSIT_FARE_FORMAT	Opt	Text	TAB_DELIMITED	P
TRANSIT_ROUTE_FILE	Opt	File		I
TRANSIT_ROUTE_FORMAT	Opt	Text	TAB_DELIMITED	P
TRANSIT_SCHEDULE_FILE	Opt	File		I
TRANSIT_SCHEDULE_FORMAT	Opt	Text	TAB_DELIMITED	P
TRANSIT_DRIVER_FILE	Opt	File		I
TRANSIT_DRIVER_FORMAT	Opt	Text	TAB_DELIMITED	P
SELECTION_FILE	Opt	File		I
SELECTION_FORMAT	Opt	Text	TAB_DELIMITED	P
HOUSEHOLD_FILE	Opt	File		I
HOUSEHOLD_FORMAT	Opt	Text	TAB_DELIMITED	P
LINK_DELAY_FILE	Opt	File		I
LINK_DELAY_FORMAT	Opt	Text	TAB_DELIMITED	P

<b>Control File Keys:</b>	<b>Req/Opt</b>	<b>Type</b>	<b>Default</b>	<b>I/O/P</b>
PERFORMANCE_FILE	Opt	File		I
PERFORMANCE_FORMAT	Opt	Text	TAB_DELIMITED	P
RIDERSHIP_FILE	Opt	File		I
RIDERSHIP_FORMAT	Opt	Text	TAB_DELIMITED	P
VEHICLE_TYPE_FILE	Opt	File		I
VEHICLE_TYPE_FORMAT	Opt	Text	TAB_DELIMITED	P
VEHICLE_FILE	Opt	File		I
VEHICLE_FORMAT	Opt	Text	TAB_DELIMITED	P
TRIP_FILE	Opt	File		I
TRIP_FORMAT	Opt	Text	TAB_DELIMITED	P
PROBLEM_FILE	Opt	File		I
PROBLEM_FORMAT	Opt	Text	TAB_DELIMITED	P
PLAN_FILE	Opt	File		I
PLAN_FORMAT	Opt	Text	TAB_DELIMITED	P
SKIM_FILE	Opt	File		I
SKIM_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_NODE_FILE	Opt	File		O
NEW_NODE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_ZONE_FILE	Opt	File		O
NEW_ZONE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_LINK_FILE	Opt	File		O
NEW_LINK_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_SHAPE_FILE	Opt	File		O
NEW_SHAPE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_POCKET_FILE	Opt	File		O
NEW_POCKET_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_LANE_USE_FILE	Opt	File		O
NEW_LANE_USE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_CONNECTION_FILE	Opt	File		O
NEW_CONNECTION_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_TURN_PENALTY_FILE	Opt	File		O
NEW_TURN_PENALTY_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_PARKING_FILE	Opt	File		O
NEW_PARKING_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_LOCATION_FILE	Opt	File		O
NEW_LOCATION_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_ACCESS_FILE	Opt	File		O
NEW_ACCESS_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_SIGN_FILE	Opt	File		O
NEW_SIGN_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_SIGNAL_FILE	Opt	File		O
NEW_SIGNAL_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_TIMING_PLAN_FILE	Opt	File		O

<b>Control File Keys:</b>	<b>Req/Opt</b>	<b>Type</b>	<b>Default</b>	<b>I/O/P</b>
NEW_TIMING_PLAN_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_PHASING_PLAN_FILE	Opt	File		O
NEW_PHASING_PLAN_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_DETECTOR_FILE	Opt	File		O
NEW_DETECTOR_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_TRANSIT_STOP_FILE	Opt	File		O
NEW_TRANSIT_STOP_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_TRANSIT_FARE_FILE	Opt	File		O
NEW_TRANSIT_FARE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_TRANSIT_ROUTE_FILE	Opt	File		O
NEW_TRANSIT_ROUTE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_TRANSIT_SCHEDULE_FILE	Opt	File		O
NEW_TRANSIT_SCHEDULE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_TRANSIT_DRIVER_FILE	Opt	File		O
NEW_TRANSIT_DRIVER_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_ROUTE_NODES_FILE	Opt	File		O
NEW_ROUTE_NODES_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_SELECTION_FILE	Opt	File		O
NEW_SELECTION_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_HOUSEHOLD_FILE	Opt	File		O
NEW_HOUSEHOLD_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_LINK_DELAY_FILE	Opt	File		O
NEW_LINK_DELAY_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_PERFORMANCE_FILE	Opt	File		O
NEW_PERFORMANCE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_RIDERSHIP_FILE	Opt	File		O
NEW_RIDERSHIP_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_VEHICLE_TYPE_FILE	Opt	File		O
NEW_VEHICLE_TYPE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_VEHICLE_FILE	Opt	File		O
NEW_VEHICLE_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_TRIP_FILE	Opt	File		O
NEW_TRIP_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_PROBLEM_FILE	Opt	File		O
NEW_PROBLEM_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_PLAN_FILE	Opt	File		O
NEW_PLAN_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_SKIM_FILE	Opt	File		O
NEW_SKIM_FORMAT	Opt	Text	TAB_DELIMITED	P
NOTES_AND_NAME_FIELDS	Opt	Bool	FALSE	P
FLOW_UNITS	Opt	Text	VEHICLES	P
SAVE_LANE_USE_FLOWS	Opt	Bool	FALSE	P
SKIM_TOTAL_TIME_FLAG	Opt	Bool	FALSE	P

## Data Service Keys

Control File Keys:	Req/Opt	Type	Default	I/O/P
TRIP_SORT_TYPE	Opt	Text	DO_NOT_SORT	P
DAILY_WRAP_FLAG	Opt	Bool	FALSE	P
SUMMARY_TIME_RANGES	Opt	List	ALL	P
SUMMARY_TIME_INCREMENT	Opt	Time	15 minutes	P
CONGESTED_TIME_RATIO	Opt	Dec	3	P

## Control Keys

Control File Keys:	Req/Opt	Type	Default	I/O/P
COPY_EXISTING_FIELDS	Opt	Bool	FALSE	P
FLATTEN_OUTPUT_FLAG	Opt	Bool	FALSE	P
TOLL_FILE	Opt	File		I
ACTIVITY_FILE	Opt	File		I
PERSON_FILE	Opt	File		I
SNAPSHOT_FILE	Opt	File		I
NEW_SNAPSHOT_FILE	Opt	New		O
NEW_SNAPSHOT_FORMAT	Opt	Text	TAB_DELIMITED	P
NEW_SNAPSHOT_COMPRESSION	Opt	Bool	FALSE	P
VERSION4_TIME_FORMAT	Opt	Text	SECONDS	P
VERSION4_PLAN_FILE	Opt	File		I
VERSION4_PLAN_FORMAT	Opt	Text	VERSION3	P
NODE_LIST_PATHS	Opt	Bool	TRUE	P
TRAVELER_SCALING_FACTOR	Opt	Int	100	P
VERSION4_ROUTE_HEADER	Opt	File		I
VERSION4_ROUTE_NODES	Opt	File		I

### Notes

Each '\_FILE' key has a corresponding '\_FORMAT' key. The following file formats can be used for input and output files: TEXT, BINARY, FIXED\_COLUMN, COMMA\_DELIMITED, SPACE\_DELIMITED, TAB\_DELIMITED, CSV\_DELIMITED, DBASE, SQLITE3, VERSION3

## Example

### Control File

```

TITLE                               NewFormat Default Control Keys
REPORT_DIRECTORY
REPORT_FILE                        //---- [report_directory]filename[_partition][.prn]
REPORT_FLAG                        FALSE    //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
PAGE_LENGTH                        65       //---- >= 0
PROJECT_DIRECTORY                  ../
DEFAULT_FILE_FORMAT                TAB_DELIMITED
TIME_OF_DAY_FORMAT                 DAY_TIME //---- SECONDS, MINUTES, HOURS, HOUR_CLOCK, DAY_TIME, TIME_CODE
MODEL_START_TIME                   12:00    //---- >= 0 [seconds], 0.0 [hours], 0:00
MODEL_END_TIME                     24:00    //---- > [model_start_time]
MODEL_TIME_INCREMENT               15 minutes //---- 0, 2..240 minutes
UNITS_OF_MEASURE                   METRIC    //---- METRIC, ENGLISH

```

```

RANDOM_NUMBER_SEED      0                //---- 0 = computer clock, > 0 = fixed
MAX_WARNING_MESSAGES    100000          //---- >= 0
MAX_WARNING_EXIT_FLAG   TRUE            //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
MAX_PROBLEM_COUNT       0                //---- >= 0
NUMBER_OF_THREADS       1                //---- 1..64

#---- System File Keys ----
#Version 4 files in V4network
#
NODE_FILE               V4network/Node.txt           //---- [project_directory]filename
NODE_FORMAT             TAB_DELIMITED
ZONE_FILE              V4network/Zone.txt           //---- [project_directory]filename
LINK_FILE              V4network/Link.txt           //---- [project_directory]filename
POCKET_FILE            V4network/Pocket_Lane.txt     //---- [project_directory]filename
SHAPE_FILE             V4network/Shape.txt          //---- [project_directory]filename
CONNECTION_FILE        V4network/Lane_Connectivity.txt //---- [project_directory]filename
TURN_PENALTY_FILE      V4network/Turn_Prohibition.txt //---- [project_directory]filename
PARKING_FILE           V4network/Parking.txt         //---- [project_directory]filename
LOCATION_FILE           V4network/Activity_Location.txt //---- [project_directory]filename
ACCESS_FILE            V4network/Process_Link.txt    //---- [project_directory]filename
SIGN_FILE              V4network/Unsignalized_Node.txt //---- [project_directory]filename
SIGNAL_FILE            V4network/Signalized_Node.txt //---- [project_directory]filename
TIMING_PLAN_FILE       V4network/Timing_Plan.txt     //---- [project_directory]filename
PHASING_PLAN_FILE      V4network/Phasing_Plan.txt    //---- [project_directory]filename
DETECTOR_FILE          V4network/Detector.txt        //---- [project_directory]filename
LANE_USE_FILE          V4network/Lane_Use.txt        //---- [project_directory]filename
TRANSIT_STOP_FILE      //---- [project_directory]filename
TRANSIT_FARE_FILE      //---- [project_directory]filename
TRANSIT_ROUTE_FILE     //---- [project_directory]filename
TRANSIT_SCHEDULE_FILE  //---- [project_directory]filename
TRANSIT_DRIVER_FILE    //---- [project_directory]filename
SELECTION_FILE         //---- [project_directory]filename.*
#HOUSEHOLD_FILE        V4demand/25.GI.sub.Household.txt //---- [project_directory]filename.*
LINK_DELAY_FILE        //---- [project_directory]filename
PERFORMANCE_FILE       //---- [project_directory]filename
RIDERSHIP_FILE         //---- [project_directory]filename
VEHICLE_TYPE_FILE      V4demand/Vehicle_Type.txt     //---- [project_directory]filename
VEHICLE_FILE           V4demand/GI.sub.Vehicle.txt   //---- [project_directory]filename.*
TRIP_FILE              //---- [project_directory]filename.*
PROBLEM_FILE           //---- [project_directory]filename.*
PLAN_FILE              //---- [project_directory]filename.*
SKIM_FILE              //---- [project_directory]filename.*
NEW_NODE_FILE          network/node.txt              //---- [project_directory]filename
NEW_NODE_FORMAT        TAB_DELIMITED
NEW_ZONE_FILE          network/zone.txt              //---- [project_directory]filename
NEW_LINK_FILE          network/link.txt              //---- [project_directory]filename
NEW_SHAPE_FILE         network/shape.txt            //---- [project_directory]filename
NEW_POCKET_FILE        network/pocket.txt           //---- [project_directory]filename
NEW_CONNECTION_FILE    network/connection.txt        //---- [project_directory]filename
NEW_TURN_PENALTY_FILE  network/turn_penalty.txt      //---- [project_directory]filename
NEW_PARKING_FILE       network/parking.txt           //---- [project_directory]filename
NEW_LOCATION_FILE      network/location.txt          //---- [project_directory]filename
NEW_ACCESS_FILE        network/access.txt            //---- [project_directory]filename
NEW_SIGN_FILE          network/sign.txt              //---- [project_directory]filename
NEW_SIGNAL_FILE        network/signal.txt            //---- [project_directory]filename
NEW_TIMING_PLAN_FILE   network/timing_plan.txt       //---- [project_directory]filename
NEW_PHASING_PLAN_FILE  network/phasing_plan.txt      //---- [project_directory]filename
NEW_DETECTOR_FILE      network/detector.txt          //---- [project_directory]filename

```



```

NEW_TRANSIT_STOP_FILE           //---- [project_directory]filename
NEW_TRANSIT_FARE_FILE           //---- [project_directory]filename
NEW_TRANSIT_ROUTE_FILE         //---- [project_directory]filename
NEW_TRANSIT_SCHEDULE_FILE      //---- [project_directory]filename
NEW_TRANSIT_DRIVER_FILE        //---- [project_directory]filename
NEW_ROUTE_NODES_FILE           //---- [project_directory]filename
NEW_SELECTION_FILE             //---- [project_directory]filename.*
NEW_HOUSEHOLD_FILE             demand/household.txt //---- [project_directory]filename.*
NEW_LINK_DELAY_FILE            //---- [project_directory]filename
NEW_PERFORMANCE_FILE           //---- [project_directory]filename
NEW_RIDERSHIP_FILE             //---- [project_directory]filename
NEW_VEHICLE_TYPE_FILE          demand/vehicle_type.txt //---- [project_directory]filename
NEW_VEHICLE_FILE               demand/vehicle.txt //---- [project_directory]filename.*
NEW_TRIP_FILE                  //---- [project_directory]filename.*
NEW_PROBLEM_FILE               //---- [project_directory]filename.*
NEW_PLAN_FILE                  demand/plan.txt //---- [project_directory]filename.*
NEW_SKIM_FILE                  //---- [project_directory]filename.*
#NEW_LANE_USE_FILE             network/lane_use.txt //---- [project_directory]filename
NOTES_AND_NAME_FIELDS          TRUE //---- default FALSE TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
FLOW_UNITS                     VEHICLES //---- VEHICLES, CAR_EQUIV/PCE, PERSONS
SAVE_LANE_USE_FLOWS            FALSE //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
SKIM_TOTAL_TIME_FLAG           FALSE //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

#---- Data Service Keys ----

#TRIP_SORT_TYPE                DO_NOT_SORT //---- DO_NOT_SORT, TRAVELER_SORT, TIME_SORT
DAILY_WRAP_FLAG                FALSE //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
SUMMARY_TIME_RANGES            ALL //---- e.g., ALL, 0..97200 seconds, 0.0..27.0 hours, 0:00..27:00
SUMMARY_TIME_INCREMENT         15 minutes //---- 0, 2..240 minutes
CONGESTED_TIME_RATIO           3.0 //---- 1.0..5.0

#---- NewFormat Control Keys ----

COPY_EXISTING_FIELDS           TRUE //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
FLATTEN_OUTPUT_FLAG            FALSE //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
TOLL_FILE                      V4network/Toll.txt //---- [project_directory]Version_4_filename
ACTIVITY_FILE                  //---- [project_directory]Version_4_filename
PERSON_FILE                    //---- [project_directory]Version_4_filename
SNAPSHOT_FILE                  //---- [project_directory]filename
NEW_SNAPSHOT_FILE              //---- [project_directory]filename
NEW_SNAPSHOT_FORMAT            TAB_DELIMITED
NEW_SNAPSHOT_COMPRESSION       FALSE //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
VERSION4_TIME_FORMAT           SECONDS //---- SECONDS, MINUTES, HOURS, HOUR_CLOCK, DAY_TIME, TIME_CODE
VERSION4_PLAN_FILE             V4demand/25.GI.sub.TimePlan //---- [project_directory]Version_4_filename.*
VERSION4_PLAN_FORMAT           BINARY //---- VERSION3, BINARY
NODE_LIST_PATHS                FALSE //---- TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
TRAVELER_SCALING_FACTOR        100 //---- 1..100
VERSION4_ROUTE_HEADER          //---- [project_directory]Version_4_filename
VERSION4_ROUTE_NODES           //---- [project_directory]Version_4_filename

```

## Resulting .prn file

```

*****
|                                     |
|           NewFormat - Version 5.0.20           |
|   Copyright 2012 by TRANSIMS Open-Source   |
|                                     |

```

\*\*\*\*\*

Control File = NewFormat-Demand.ctl  
Report File = NewFormat-Demand.prn (Create)

#### NewFormat Default Control Keys

Page Length = 65  
Project Directory = ../  
Default File Format = TAB\_DELIMITED  
Time of Day Format = DAY\_TIME  
Model Start Time = 12:00  
Model End Time = 24:00  
Model Time Increment = 15.00 minutes  
Units of Measure = METRIC  
Random Number Seed = 1372708425  
Max Warning Messages = 100000  
Max Warning Exit Flag = TRUE  
Max Problem Count = 0  
Number of Threads = 1

#### Input System Network Files:

Node File = ../V4network/Node.txt  
Zone File = ../V4network/Zone.txt  
Shape File = ../V4network/Shape.txt  
Link File = ../V4network/Link.txt  
Pocket File = ../V4network/Pocket\_Lane.txt  
Lane Use File = ../V4network/Lane\_Use.txt  
Connection File = ../V4network/Lane\_Connectivity.txt  
Turn Penalty File = ../V4network/Turn\_Prohibition.txt  
Parking File = ../V4network/Parking.txt  
Location File = ../V4network/Activity\_Location.txt  
Access File = ../V4network/Process\_Link.txt  
Sign File = ../V4network/Unsignalized\_Node.txt  
Signal File = ../V4network/Signalized\_Node.txt  
Phasing Plan File = ../V4network/Phasing\_Plan.txt  
Timing Plan File = ../V4network/Timing\_Plan.txt  
Detector File = ../V4network/Detector.txt

#### Input System Demand Files:

Vehicle Type File = ../V4demand/Vehicle\_Type.txt  
Vehicle File = ../V4demand/GI.sub.Vehicle.txt

#### Output System Network Files:

New Node File = ../network/node.txt  
New Zone File = ../network/zone.txt  
New Shape File = ../network/shape.txt  
New Link File = ../network/link.txt  
New Pocket File = ../network/pocket.txt  
New Connection File = ../network/connection.txt  
New Turn Penalty File = ../network/turn\_penalty.txt  
New Parking File = ../network/parking.txt  
New Location File = ../network/location.txt  
New Access File = ../network/access.txt  
New Sign File = ../network/sign.txt

#### NewFormat Default Control Keys

New Signal File = ../network/signal.txt  
New Phasing Plan File = ../network/phasing\_plan.txt  
New Timing Plan File = ../network/timing\_plan.txt  
New Detector File = ../network/detector.txt

Output System Demand Files:  
New Household File = ../demand/household.txt  
New Vehicle Type File = ../demand/vehicle\_type.txt  
New Vehicle File = ../demand/vehicle.txt  
New Plan File = ../demand/plan.txt

Save Lane Use Flows = FALSE  
Notes And Name Fields = TRUE

Data Service Controls:

Daily Wrap Flag = FALSE  
Summary Time Increment = 15.00 minutes  
Summary Time Ranges = ALL  
Number of Time Periods = 48  
Congested Time Ratio = 3

NewFormat Control Keys:  
Copy Existing Fields = TRUE  
Flatten Output Flag = FALSE  
Toll File = ../V4network/Toll.txt  
Version4 Time Format = SECONDS

Version4 Plan File = ../V4demand/25.GI.sub.TimePlanB  
Version4 Plan Format = BINARY  
Plan File contains Link List Paths  
Traveler Scaling Factor = 100

Number of Node File Records = 20

Number of Zone File Records = 9  
Highest Zone Number = 726

Number of Shape File Records = 63  
Number of Link Shape Records = 15  
Number of Link File Records = 22  
Number of Directional Links = 29  
Number of Pocket File Records = 13

Number of Vehicle Type File Records = 15  
Warning: LaneUse Link 0 was Not Found in the Link file

Number of Lane Use File Records = 1

Number of Connection File Records = 69  
Number of Connect Data Records = 38

Number of Turn Penalty File Records = 0

Number of Parking File Records = 48

Number of Location File Records = 48

Number of Access File Records = 96

Number of Sign File Records = 13  
Number of Sign Data Records = 1

Number of Signal File Records = 5  
Number of Signal Data Records = 10

Number of Detector File Records = 18

Number of Timing Plan File Records = 12  
Number of Timing Data Records = 17

Number of Phasing Plan File Records = 34  
Number of Phasing Data Records = 24

Number of Vehicle File Records = 67940

Number of Toll File Records = 1

New Node File Records = 20  
New Link File Records = 22  
New Shape File Records = 63  
New Pocket File Records = 13  
New Connection File Records = 38  
New Turn Penalty File Records = 0  
New Parking File Records = 48  
New Access File Records = 0  
New Sign File Records = 1  
New Signal File Records = 10  
New Timing Plan File Records = 17  
New Phasing Plan File Records = 46  
New Detector File Records = 18  
New Vehicle Type File Records = 15  
New Vehicle File Records = 67940

#### Version4 Plan File

Number of Input Files = 1  
Number of Input Plans = 204891  
Number of Input Records = 272831  
Number of Input Travelers = 68308  
Number of Input Trips = 3406

Number of New Plan File Records = 627032  
Number of New Plan File Households = 68308  
Number of New Plan File Persons = 68308  
Number of New Plan File Tours = 68308  
Number of New Plan File Trips = 69011

Mon Jul 01 15:53:59 2013 -- Process Complete with 1 Warning (0:00:14)