NewFormat

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, Population 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 **req**uired or **opt**ional
* The types include **Text**, Input **File**name, **New** file, **Bool**ean, **Path** (to a file), **Time**, **Int**eger, **Dec**imal, 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 |
| 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 |
| 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 |
| 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 ouput 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 |

| Mon Jul 01 15:53:45 2013 |

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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)