

SR-55 Training #3 -  
TRANPLAN & OCTAM RUN

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# Training Design

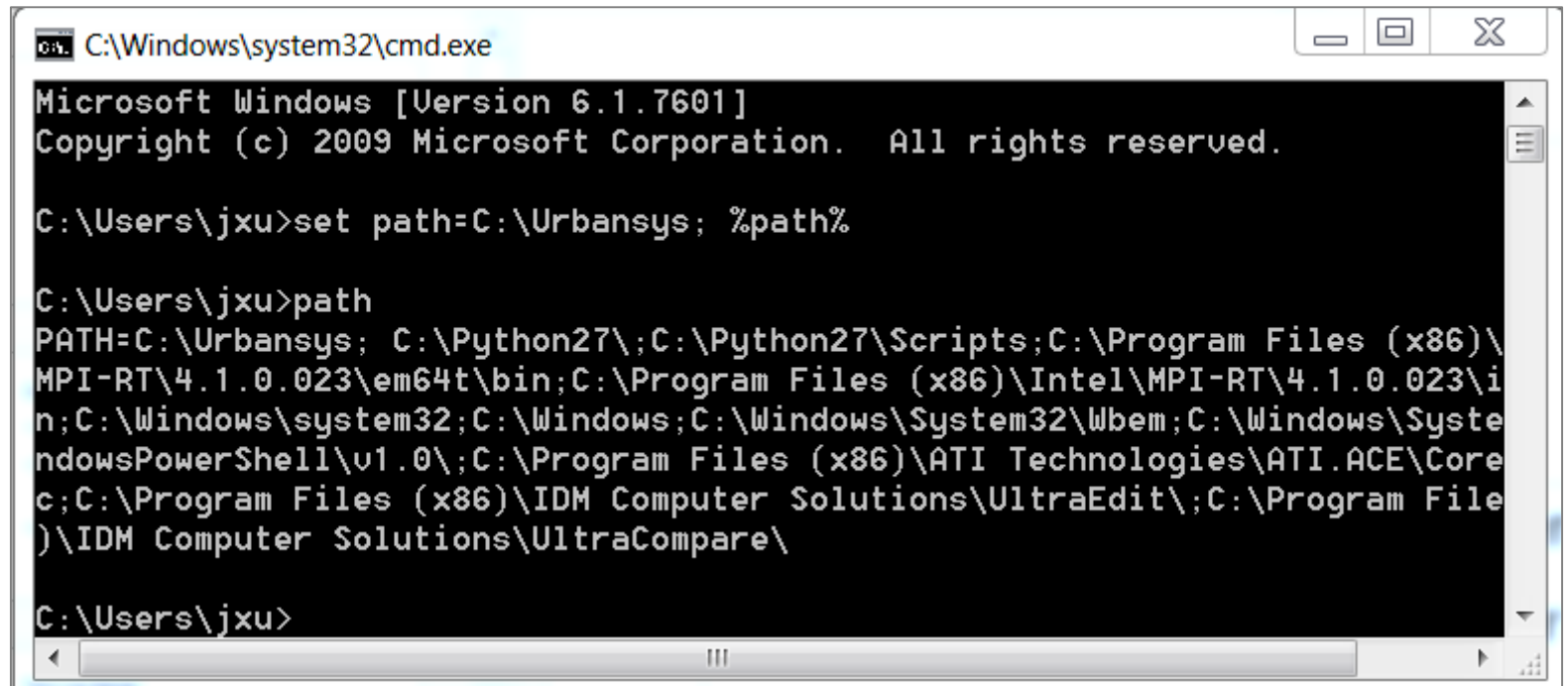
- #1 – Intro to OCTAM TRANPLAN 3.4
- #2 – Development of M3 Alternative & Post Processing Templates
- #3 – Use of TRANPLAN and OCTAM Model Run

# Use of TRANPLAN

- Copy “Urbansys” folder under C: drive
- Incorporate TRANPLAN folder to the system path

Open DOS

environment, then →



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\jxu>set path=C:\Urbansys; %path%

C:\Users\jxu>path
PATH=C:\Urbansys; C:\Python27\;C:\Python27\Scripts;C:\Program Files (x86)\
MPI-RT\4.1.0.023\em64t\bin;C:\Program Files (x86)\Intel\MPI-RT\4.1.0.023\i
n;C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\Syste
ndowsPowerShell\v1.0\;C:\Program Files (x86)\ATI Technologies\ATI.ACE\Core
c;C:\Program Files (x86)\IDM Computer Solutions\UltraEdit\;C:\Program File
)\IDM Computer Solutions\UltraCompare\

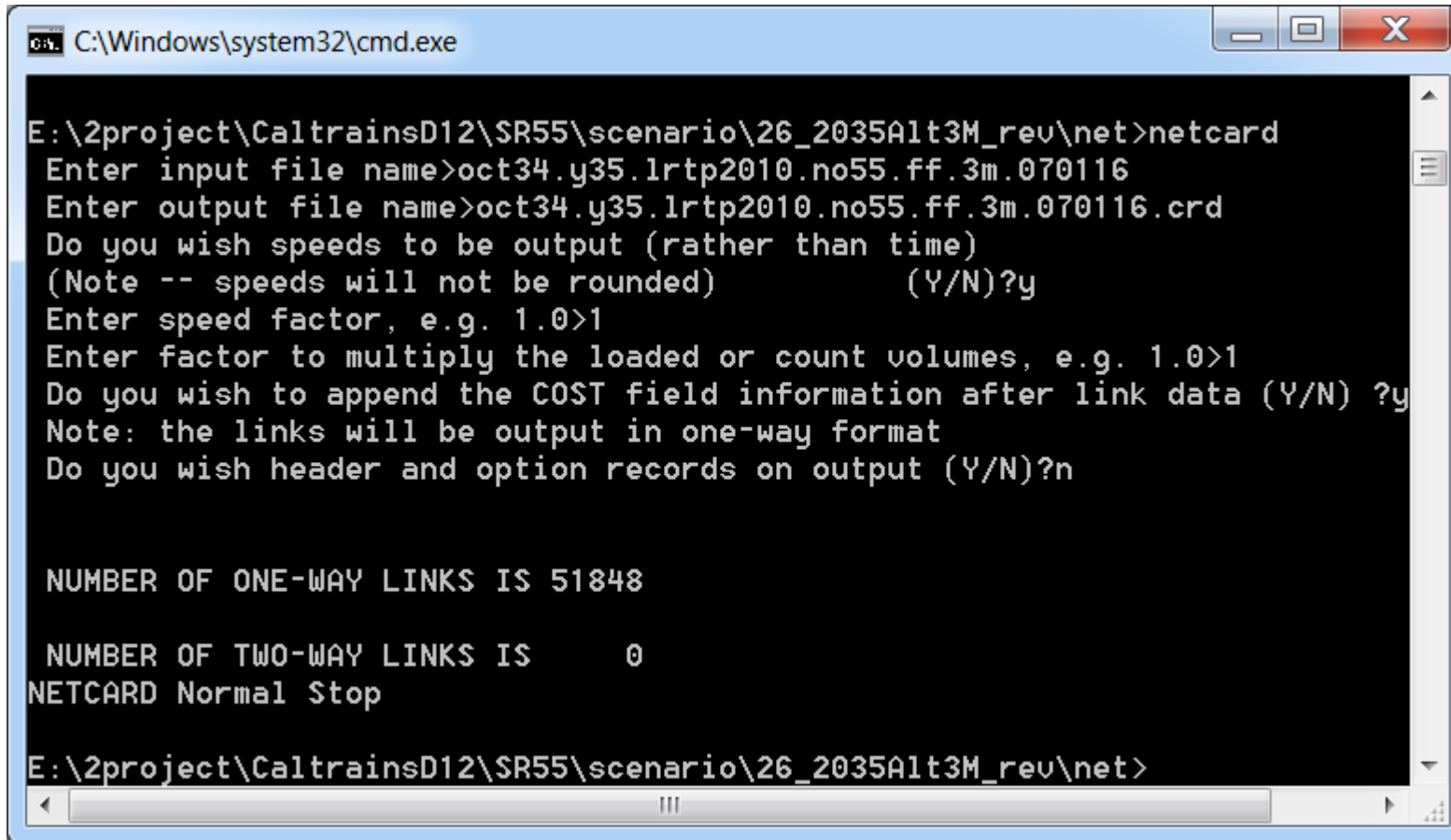
C:\Users\jxu>
```

# OCTAM Model Run

- Prepare the model run
  - Develop scenario folder by updating required input files, such as highway/transit network, SED, etc.
  - If updating highway network, additional step is required to run the model
    - Run TRANPLAN command “Netcard” to un-build highway network.

**OCTAM reads in the un-built network rather than the built highway network.**

# Un-build Input Highway Network



```
C:\Windows\system32\cmd.exe
E:\2project\CaltrainsD12\SR55\scenario\26_2035Alt3M_rev\net>netcard
Enter input file name>oct34.y35.lrt2010.no55.ff.3m.070116
Enter output file name>oct34.y35.lrt2010.no55.ff.3m.070116.crd
Do you wish speeds to be output (rather than time)
(Note -- speeds will not be rounded)          (Y/N)?y
Enter speed factor, e.g. 1.0>1
Enter factor to multiply the loaded or count volumes, e.g. 1.0>1
Do you wish to append the COST field information after link data (Y/N) ?y
Note: the links will be output in one-way format
Do you wish header and option records on output (Y/N)?n

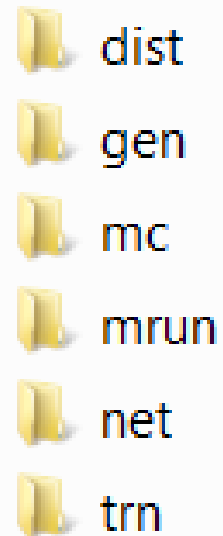
NUMBER OF ONE-WAY LINKS IS 51848

NUMBER OF TWO-WAY LINKS IS      0
NETCARD Normal Stop

E:\2project\CaltrainsD12\SR55\scenario\26_2035Alt3M_rev\net>
```

# Model Functions

- Network process
- Trip Generation
- Trip Destination
- Mode Choice
- Trip Assignment



**Run batch files under DOS environment from each subfolder.**

# OCTAM Model Run Method

- Full Model Run
  - A complete model run from beginning to end of the model stream.
  - Run batch files sequentially in each subfolder of OCTAM TRANPLAN.
- Assignment only Run
  - Only run assignment with the network updates, while keep the trip tables consistent.
  - Run the batch file for network processing and assignment.

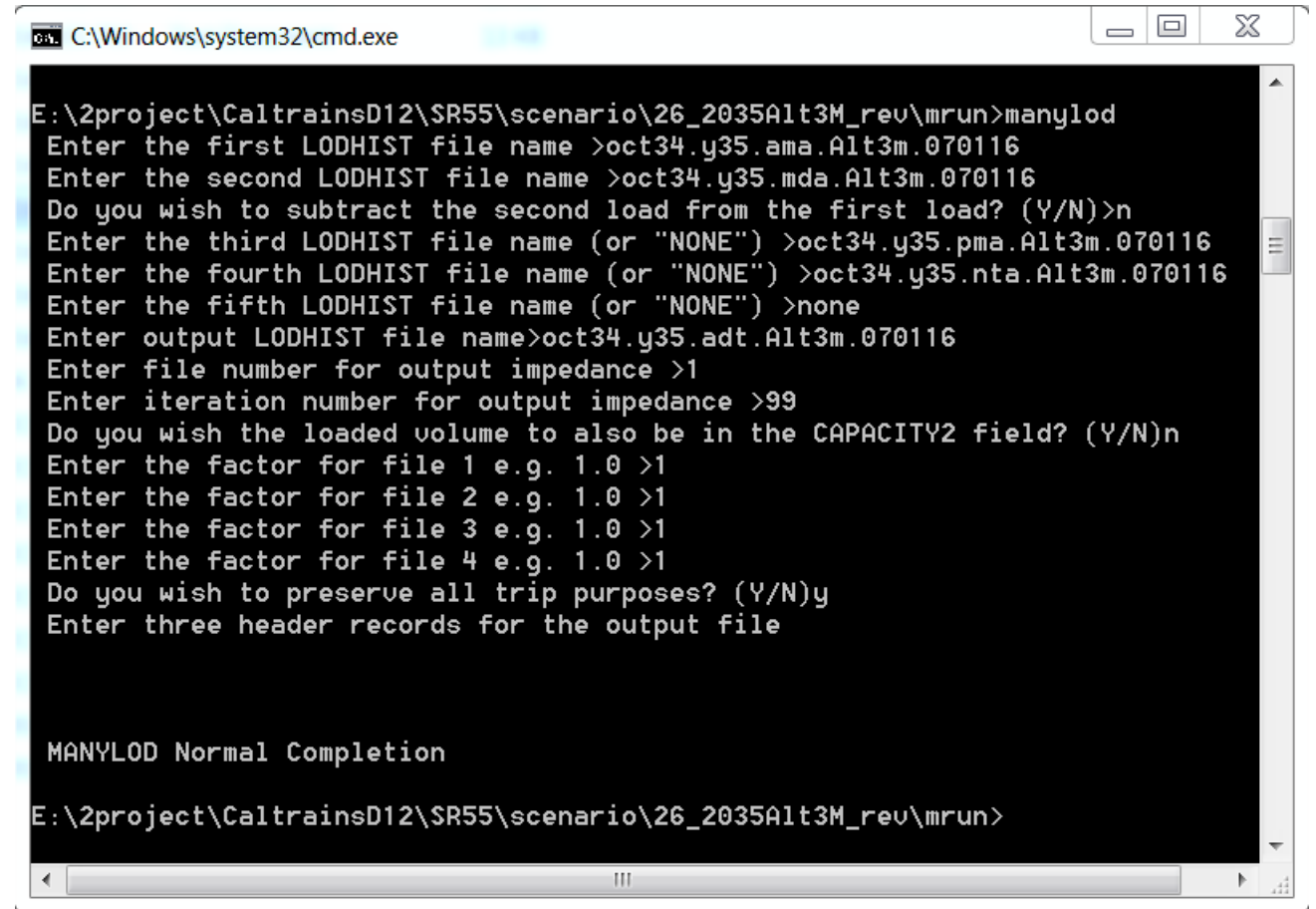


# Assignment-Only

- Network processing:
  - Un-build revised highway network
  - Run scripts to build highway network with updated speed, capacity, etc.  
associated with the revised network coding
  - Run highway assignment

# Assignment-Only

## Generate Daily loaded network - Manylod



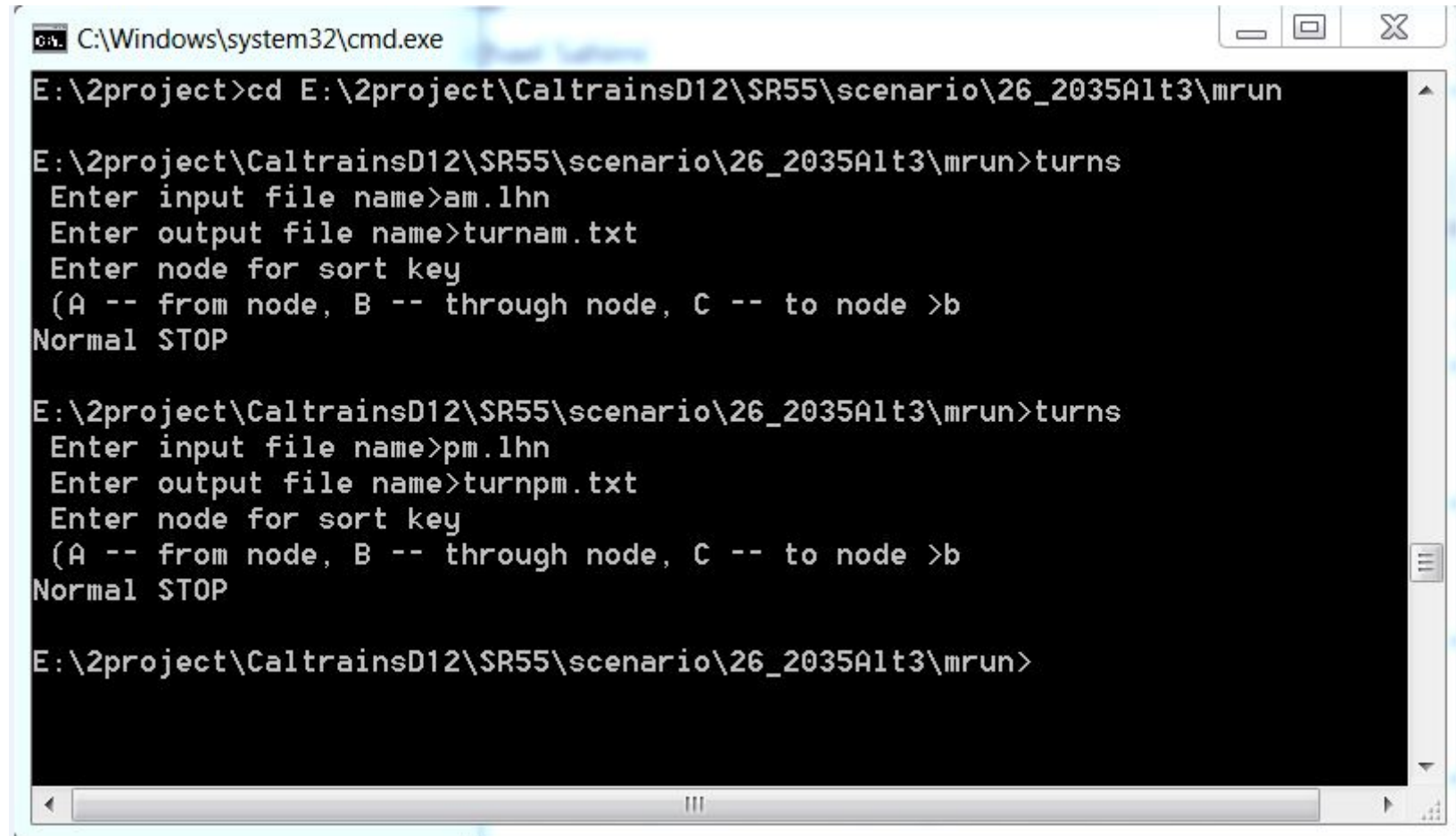
```
C:\Windows\system32\cmd.exe
E:\2project\CaltrainsD12\SR55\scenario\26_2035Alt3M_rev\mrun>manylod
Enter the first LODHIST file name >oct34.y35.ama.Alt3m.070116
Enter the second LODHIST file name >oct34.y35.mda.Alt3m.070116
Do you wish to subtract the second load from the first load? (Y/N)>n
Enter the third LODHIST file name (or "NONE") >oct34.y35.pma.Alt3m.070116
Enter the fourth LODHIST file name (or "NONE") >oct34.y35.nta.Alt3m.070116
Enter the fifth LODHIST file name (or "NONE") >none
Enter output LODHIST file name>oct34.y35.adt.Alt3m.070116
Enter file number for output impedance >1
Enter iteration number for output impedance >99
Do you wish the loaded volume to also be in the CAPACITY2 field? (Y/N)n
Enter the factor for file 1 e.g. 1.0 >1
Enter the factor for file 2 e.g. 1.0 >1
Enter the factor for file 3 e.g. 1.0 >1
Enter the factor for file 4 e.g. 1.0 >1
Do you wish to preserve all trip purposes? (Y/N)y
Enter three header records for the output file

MANYLOD Normal Completion

E:\2project\CaltrainsD12\SR55\scenario\26_2035Alt3M_rev\mrun>
```

# Pulling Turning Movement

In the highway assignment script, identify the intersection nodes that need to report the turning movements.



```
C:\Windows\system32\cmd.exe
E:\2project>cd E:\2project\CaltrainsD12\SR55\scenario\26_2035Alt3\mrun
E:\2project\CaltrainsD12\SR55\scenario\26_2035Alt3\mrun>turns
Enter input file name>am.lhn
Enter output file name>turnam.txt
Enter node for sort key
(A -- from node, B -- through node, C -- to node >b
Normal STOP
E:\2project\CaltrainsD12\SR55\scenario\26_2035Alt3\mrun>turns
Enter input file name>pm.lhn
Enter output file name>turnpm.txt
Enter node for sort key
(A -- from node, B -- through node, C -- to node >b
Normal STOP
E:\2project\CaltrainsD12\SR55\scenario\26_2035Alt3\mrun>
```