

# Distribution

## ‘1\_\_Distribution.s’

- General script clean up
- Removed initializing and logging of trip, VMT, and VHT variables printed to LOG
- Updated trip table convergence criteria:
  - Change % change convergence threshold from 10% to 7.5%
  - Only process cells where current iter trips>0 (cells with trips>0 are counted as significant trips and form the denominator in the % converged calculation; cells with trips=0 are counted as not significant)
  - Converged trip table matrix cell:
    - \* % change from previous iteration is within % change convergence threshold
    - \* If current iter trips>0 & previous iter trips=0, then cell is not converged
    - \* If current iter trips<1, then cell is converged
- Updated link convergence criteria:
  - Change % change convergence threshold from 5% to 7.5%
  - Only process highway links (FT>1)
  - Converged link
    - \* % change from previous iteration is within % change convergence threshold
    - \* If current iter vol=0 & previous iter vol>0 OR current iter vol>0 & previous iter vol=0, then link is not converged
    - \* If current iter vol=0 & previous iter vol=0, then link is converged
- Updated convergence check criteria and removed minimum of 5 iterations requirement
- Updated assignment
  - Moved RGAP parameter passthrough variable from block file to main script just before each assignment call
  - Set EV RGAP parameter to value in ‘0GeneralParameters.block’ / 10
- Updated trip table and link convergence reports in LOG
- Added new reports (csv files) to better track convergence in
  - ‘\_Stats - Distrib Assign - @RID@.csv’
  - ‘\_Stats - Distrib Loaded Net - @RID@.csv’
  - ‘\_Stats - Distrib Trip Table - @RID@.csv’

- Added ‘@unloadednetprefix@\_@n@\_convg.net’ to ‘Temp\3\_Distribute’ folder which includes following fields (net1= current iteration, net2=previous iteration):
  - $AM\_Cur = li.1.AM\_VOL$
  - $MD\_Cur = li.1.MD\_VOL$
  - $PM\_Cur = li.1.PM\_VOL$
  - $EV\_Cur = li.1.EV\_VOL$
  - $DY\_Cur = li.1.DY\_VOL$
  - $AM\_Pre = li.2.AM\_VOL$
  - $MD\_Pre = li.2.MD\_VOL$
  - $PM\_Pre = li.2.PM\_VOL$
  - $EV\_Pre = li.2.EV\_VOL$
  - $DY\_Pre = li.2.DY\_VOL$
  - $AM\_Diff = AM\_Cur - AM\_Pre$
  - $MD\_Diff = MD\_Cur - MD\_Pre$
  - $PM\_Diff = PM\_Cur - PM\_Pre$
  - $EV\_Diff = EV\_Cur - EV\_Pre$
  - $DY\_Diff = DY\_Cur - DY\_Pre$
  - $AM\_PctDiff = ABS(AM\_Diff) / AM\_Pre$
  - $MD\_PctDiff = ABS(MD\_Diff) / MD\_Pre$
  - $PM\_PctDiff = ABS(PM\_Diff) / PM\_Pre$
  - $EV\_PctDiff = ABS(EV\_Diff) / EV\_Pre$
  - $DY\_PctDiff = ABS(DY\_Diff) / DY\_Pre$
  - $CONVLINK$  (if  $(DY\_PctDiff \leq \_ConvThreshold)$   $CONVLINK = 1$ )
- & ‘4pd\_mainbody\_distribution.block’