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<=_ConvThreshold) CONVLINK = 1)
- & '4pd_mainbody_distribution.block'