XML files:

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| File Name (Capstone\_) | Description |
| 0305 | with real demands |
| 0314\_max | mainline 10000, on-ramp 1800 |
| 0322\_real\_data | with real demands and splits |
| 0412 | mainline 2000, on-ramp 1800 |
| 0412\_change | mainline 10000, demand 1800 for link 1811 |
| 0412\_min | mainline 0, demand 900 for last on-ramp link |
| 0412\_511 | mainline 0, demand 1800 for first on-ramp link |
| 0419 | mainline 5000, on-ramp 1800 |
| 0419\_0…0419\_x...0419\_900 | mainline 7500, on-ramp 2x |
| 0423\_0…0423\_x…0423\_900 | mainline 7500, on-ramp 2x, actuator and controller, no dt |
| 0423\_450\_alinea | mainline 7500, on-ramp 900, actuator and controller, dt=300 |
| 0425\_0…0425\_x…0425\_900 | mainline 7500, on-ramp 2x, actuator and controller, dt=30 |
| 0426\_900 | mainline 9000, on-ramp 1800, no actuator and no controller |
| 0426\_9000 | same as 0426\_900 |
| 0426\_8500 | mainline 8500, on-ramp 1800, no actuator and no controller |
| 0426\_8000 | mainline 8000, on-ramp 1800, no actuator and no controller |
| 0426\_7500 | mainline 7500, on-ramp 1800, no actuator and no controller |
| 0426\_9000\_controller | mainline 9000, on-ramp 1800, actuator and controller, dt=30 |
| 0426\_8500\_controller | mainline 8500, on-ramp 1800, actuator and controller, dt=30 |
| 0426\_8000\_controller | mainline 8000, on-ramp 1800, actuator and controller, dt=30 |
| 0426\_7500\_controller | mainline 7500, on-ramp 1800, actuator and controller, dt=30 |
| n\_capstone\_0426\_7500…x…9000 | mainline x, on-ramp 1800, all lanes to off-ramp, no actuator and controller |
| n\_capstone\_0426\_7500…x…9000 controller | mainline x, on-ramp 1800, all lanes to off-ramp, dt=30 |
| 0503\_450\_alinea | same as 0423\_450\_alinea |
| 0503\_450\_alinea\_no | same as 0419\_450 |
| 0503\_50\_alinea | mainline 7500, on-ramp 100, dt=300 |
| 0503\_900\_alinea | mainline 7500, on-ramp 1800, dt=300 |
| 0504\_900\_capacity | mainline 7500, on-ramp 1800, dt=300, capacity controller |
| 0505\_9000\_controller | mainline 9000, on-ramp 1800, actuator and controller, dt=300 |
| 0505\_8500\_controller | mainline 8500, on-ramp 1800, actuator and controller, dt=300 |
| 0505\_8000\_controller | mainline 8000, on-ramp 1800, actuator and controller, dt=300 |
| 0505\_7500\_controller | mainline 7500, on-ramp 1800, actuator and controller, dt=300 |

MATLAB files

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| File | Used XML file name and outputs |
| Congestion\_0322 | 0322\_real\_data |
| Change\_0412 | 0412\_change |
| Change\_min\_0412 | 0412\_min |
| Change\_0412\_511 | 0412\_511 |
| Capstone\_0419 | 0314\_max |
| Audience\_0419 | 0419\_0..900 |
| Audience\_0425 | 0425\_0..900 |
| Artificial\_congestion\_0314 | 0314\_max |
| Artificial\_congestion\_0412 | 0412 |
| Capstone\_0423 | 0425\_450, 0425\_0 |
| Capstone\_0426\_900 | 0426\_7500…9000 |
| Capstone\_0426\_900\_controller | 0426\_7500\_controller…9000 |
| Capstone\_0429\_maxmax | 0426\_9000, 0426\_9000\_controller |
| Compare\_450 | 0503\_450\_alinea, 0503\_450\_alinea\_no |
| C\_0503\_450\_compare | 0423\_450\_alinea, 0419\_450 (results same as c\_0503\_450\_compare) |
| For\_showcase\_0425 | 0425\_x, |
| For\_showcase\_0429 | 0419\_x, 0425\_x |
| Night\_0503 | 0425\_450, 0419\_450 |
| n\_capstone\_0426 | n\_0426\_x |
| n\_capstone\_0426\_900\_controller | n\_0426\_x\_controller |
| n\_capstone\_0429\_maxmax | n\_0426\_9000, n\_0426\_9000\_controller |
| Gui\_0422 |  |
| Gui\_0429 |  |
| 0505\_controller | 0505\_x\_controller |
| Compare\_0504\_50 | 0503\_50\_alinea, 0419\_50 |
| Compare\_0504\_450 | 0503\_450\_alinea, 0419\_450 |
| Compare\_0504\_900 | 0503\_900\_alinea, 0419\_900 |
| Compare\_0504\_900\_capacity | 0504\_900\_capacity, 0419\_900 |