



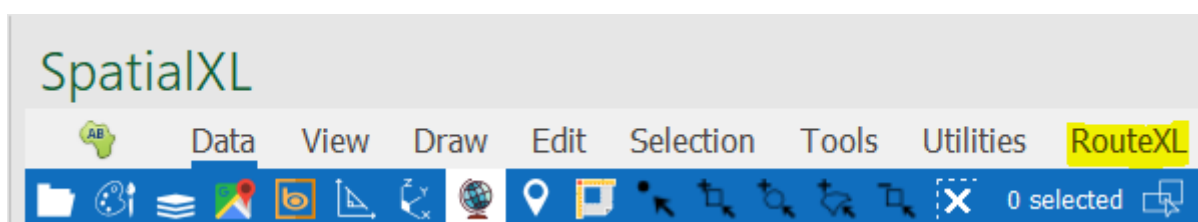
# Bulk Routing in RouteXL

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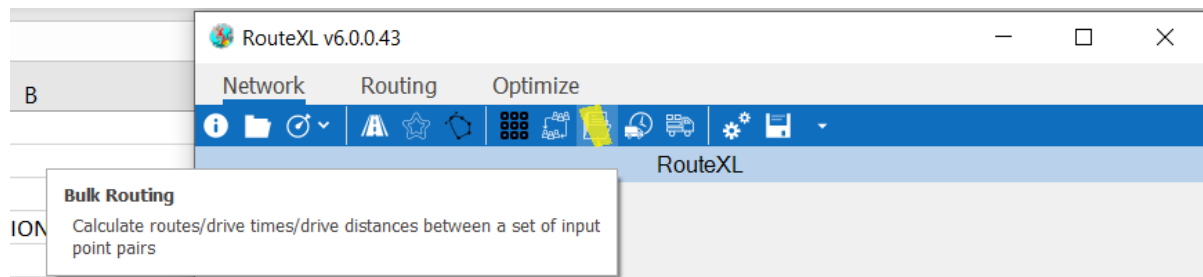
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## RouteXL

RouteXL is an add-in to SpatialXL that allows optimised routing, transportation scheduling and high-speed bulk routing operations.

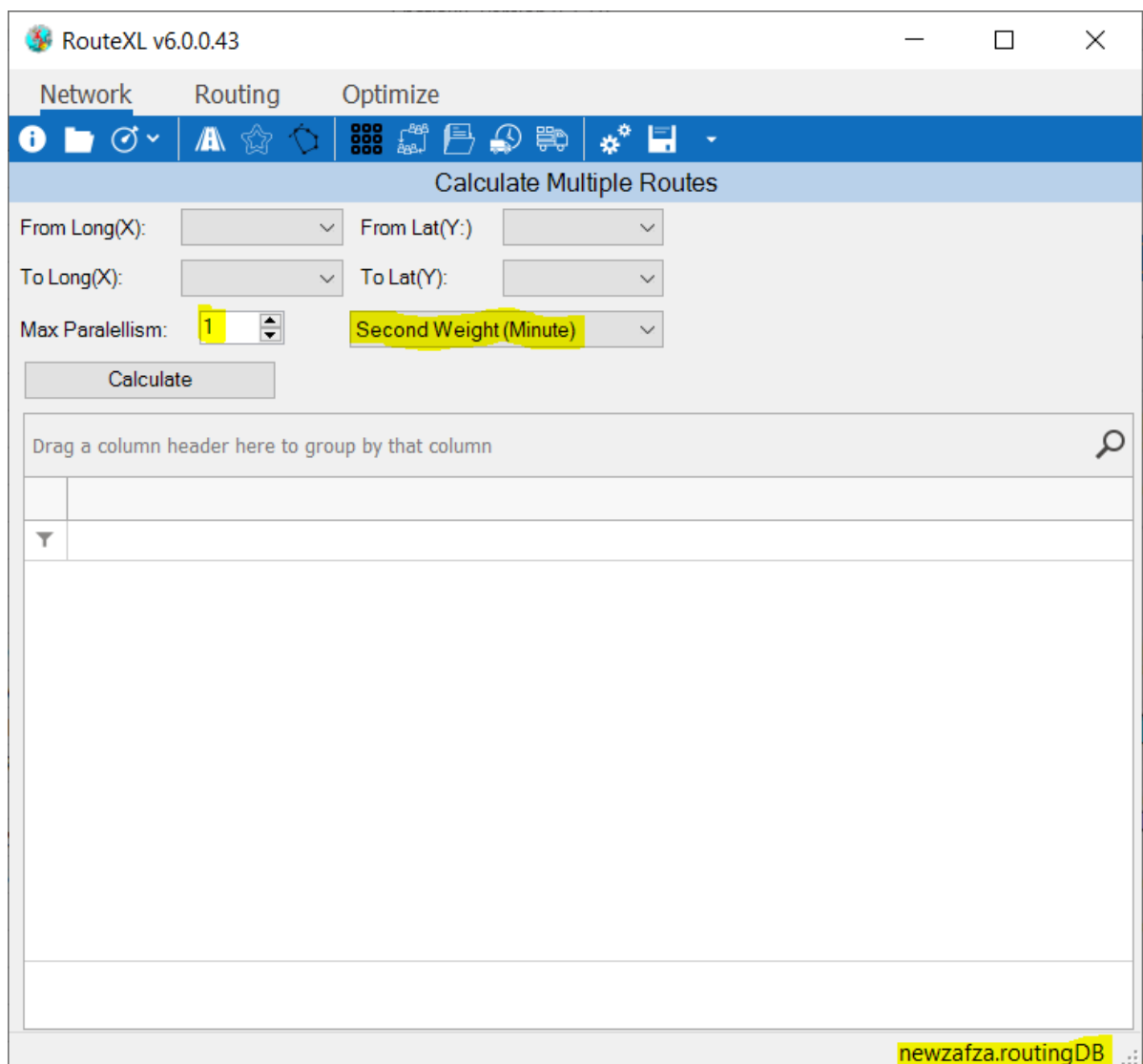


## Bulk Routing



## How to set up your data

Load your Routing Network by browsing to your .routingDB file. Your Routing Network will be displayed in the bottom right corner of your RouteXL window. I loaded **newzafza.routingDB** which is the South African Routing Network.



You can either optimize your route by **First Weight (Meter)** or **Second Weight (Minute)**. I have chosen Second Weight (Minute).

**Max Parallelism** is set at **1** as a default. This is the basic setting for processing your data.

## Inputting your data

You need to set up your data as below so you can perform the **Bulk Routing** exercise correctly.

| A           | B                                             | C             | D              | E         | F                                           | G           | H            |
|-------------|-----------------------------------------------|---------------|----------------|-----------|---------------------------------------------|-------------|--------------|
| OUTLET FROM | NAME                                          | FROM LATITUDE | FROM LONGITUDE | OUTLET TO | NAME1                                       | TO LATITUDE | TO LONGITUDE |
| 136         | ALBERTON HYPER LIQUOR                         | -26.272800    | 28.122200      | 190       | SUPER SPAR*MEYERSDAL                        | -26.290167  | 28.091184    |
| 138         | ALBERTON WHOLESALERS                          | -26.270050    | 28.122167      | 191       | SUPERSPAR*SQUEEZE IN                        | -26.260210  | 28.130950    |
| 139         | BP*GROBLER SERVICE STATION                    | -26.276130    | 28.122770      | 192       | TOTAL*BRACKENDOWNS                          | -26.344590  | 28.093100    |
| 140         | BP EXPRESS*RANDHART                           | -26.337667    | 28.194684      | 193       | TOTAL*BRACKENHURST                          | -26.326400  | 28.099100    |
| 141         | BRACKENDOWNS LIQUOR STORE                     | -26.337667    | 28.194684      | 195       | VERWOERD PARK DISCOUNT SUPERMARKET & BAKERY | -26.265000  | 28.140100    |
| 142         | CALTEX*HENNICCO SERVICE STATION               | -26.260540    | 28.124850      | 196       | LOCO LIQ LIQUORS                            | -26.309980  | 28.106320    |
| 143         | CALTEX*FLORENTIA MOTORS                       | -26.263000    | 28.135400      | 197       | ZENEX SNACK SHOP*HART SERVICE STATION       | -26.299300  | 28.093617    |
| 144         | CALTEX STARMART*STAR SERVICES                 | -26.340280    | 28.112600      | 198       | GOLDEN BAKE                                 | -26.318420  | 28.132920    |
| 145         | NUNOS CONVENIENCE STORE                       | -26.264900    | 28.115820      | 199       | TOTAL*ALRODE SERVICE STATION                | -26.317584  | 28.131900    |
| 146         | CHECKERS*ALBERTON CITY                        | -26.254500    | 28.112800      | 200       | ALRODE SNACK BAR                            | -26.300800  | 28.140000    |
| 148         | CALTEX*COYS SERVICE STATION                   | -26.263104    | 28.126640      | 201       | ALRODE SOUTH SUPER SAVE                     | -26.318450  | 28.132970    |
| 149         | DAILY CONVENIENT STORE                        | -26.261400    | 28.127100      | 203       | BP EXPRESS*TRIO                             | -26.318480  | 28.133000    |
| 150         | ENGEN QUICK SHOP*BRACKENTEN MOTORS            | -26.321800    | 28.086900      | 204       | CLIFFYS CASH & CARRY                        | -26.324890  | 28.138720    |
| 152         | ENGEN QUICK SHOP*JACQUELINE SERVICE STATION   | -26.296617    | 28.115767      | 205       | CALTEX*LAMBCO SERVICE STATION               | -26.318490  | 28.132360    |
| 153         | ENGEN QUICK SHOP*KRITZINGER SERVICE STATION   | -26.264817    | 28.147534      | 206       | LESLIE GENERAL DEALER                       | -26.380800  | 28.135300    |
| 154         | ENGEN QUICK SHOP*NEW MARKET SERVICE STATION   | -26.272000    | 28.122300      | 207       | PALM GOLD CAFE                              | -26.318470  | 28.132990    |
| 155         | ENGEN QUICK SHOP*NEW REDRUTH                  | -26.272440    | 28.127140      | 208       | EDEN PALMS WHOLESALERS                      | -26.320200  | 28.120600    |
| 156         | ENGEN QUICK SHOP*VERWOERDPARK SERVICE STATION | -26.273980    | 28.144480      | 209       | PORDOSOL RESTAURANT                         | -26.377600  | 28.131800    |
| 157         | ENGEN QUICK SHOP*VILLAGE MOTORS               | -26.309980    | 28.106320      | 210       | RAYMOND CASH STORE                          | -26.377400  | 28.131600    |
| 158         | SASOL DELIGHT*MEYERSDAL                       | -26.289217    | 28.091434      | 211       | SHARKEYS WHOLESALERS                        | -26.319600  | 28.120600    |
| 159         | FRIENDLY SUPERMARKET*RETSOS                   | -26.296867    | 28.117450      | 212       | SUPA DUPA SUPERMARKET                       | -26.380700  | 28.133000    |
| 160         | HELENS CAFÉ                                   | -26.272800    | 28.122300      | 215       | BP EXPRESS*NEW MARKET                       | -26.289600  | 28.139930    |
| 161         | HOT SPOT LIQUOR                               | -26.259200    | 28.128100      | 216       | HOLEY SMOKE                                 | -26.261984  | 28.123084    |
| 163         | KWIKSPAR*HAYBERRY PARK                        | -26.319390    | 28.121930      | 217       | NIZAMS SUPERMARKET                          | -26.256200  | 28.132500    |
| 164         | LIQUOR CITY BRACKENDOWNS                      | -26.339550    | 28.095660      | 218       | ENGEN QUICK SHOP*OTHANDWENI SERVICE STATION | -26.318490  | 28.133010    |
| 165         | LIQUOR VILLAGE                                | -26.268784    | 28.120150      | 219       | PAMS STORE                                  | -26.381700  | 28.134000    |
| 166         | LOCO LIQUORS                                  | -26.309380    | 28.107620      | 221       | EMTHONJENI SUPERMARKET                      | -26.273500  | 28.123200    |
| 167         | LOIZOS                                        | -26.265300    | 28.129800      | 223       | PICK N PAY FAMILY*ALBERTON                  | -26.281010  | 28.123510    |

Copy and Paste this into your RouteXL window.

**RouteXL v6.0.0.43**

**Network    Routing    Optimize**

**Calculate Multiple Routes**

From Long(X):  From Lat(Y):

To Long(X):  To Lat(Y):

Max Parallelism:  Second Weight (Minute)

**Calculate**

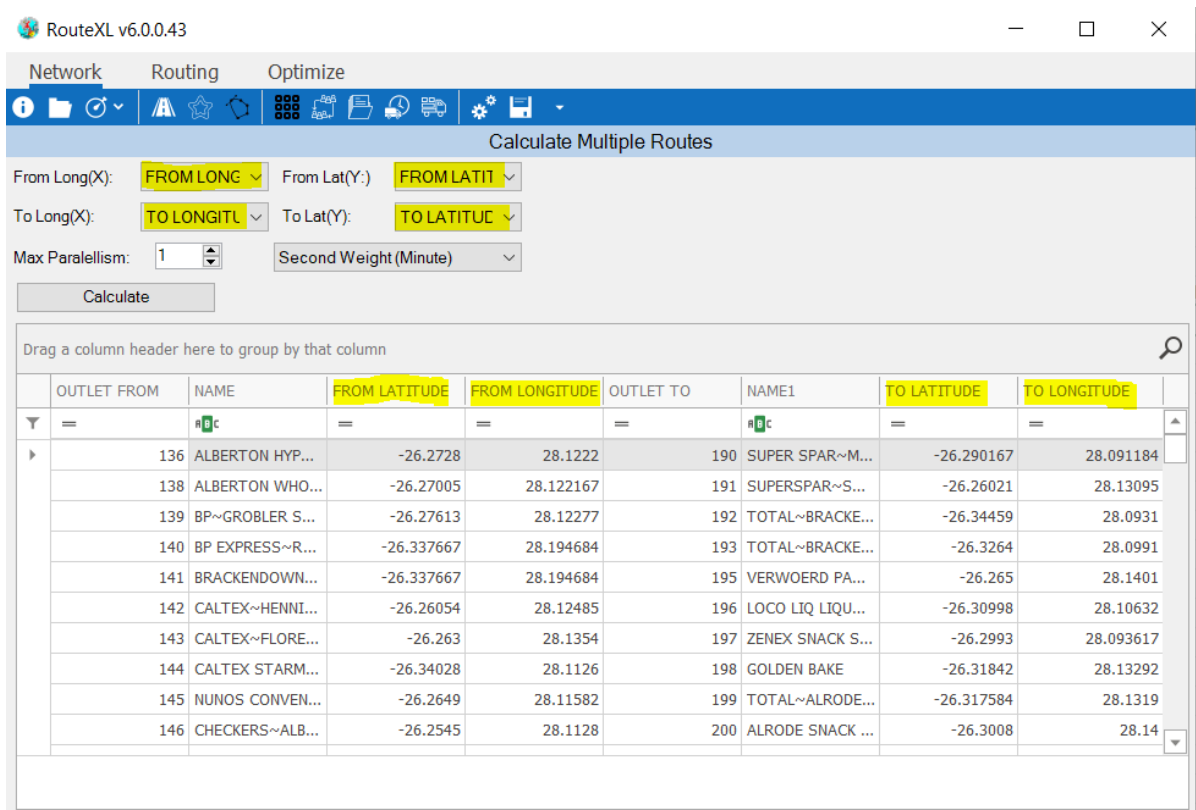
Drag a column header here to group by that column

|   | OUTLET FROM | NAME           | FROM LATIT ... | FROM LONGI... | OUTLET TO | NAME1           | TO LATITUDE | TO LONGITUDE |   |
|---|-------------|----------------|----------------|---------------|-----------|-----------------|-------------|--------------|---|
| ▼ | =           | RDC            | =              | =             | =         | RDC             | =           | =            | ▲ |
| ▶ | 136         | ALBERTON H...  | -26.2728       | 28.1222       | 190       | SUPER SPAR...   | -26.290167  | 28.091184    |   |
|   | 138         | ALBERTON W...  | -26.27005      | 28.122167     | 191       | SUPERSPAR~...   | -26.26021   | 28.13095     |   |
|   | 139         | BP~GROBLER ... | -26.27613      | 28.12277      | 192       | TOTAL~BRAC...   | -26.34459   | 28.0931      |   |
|   | 140         | BP EXPRESS...  | -26.337667     | 28.194684     | 193       | TOTAL~BRAC...   | -26.3264    | 28.0991      |   |
|   | 141         | BRACKENDO...   | -26.337667     | 28.194684     | 195       | VERWOERD P...   | -26.265     | 28.1401      |   |
|   | 142         | CALTEX~HEN...  | -26.26054      | 28.12485      | 196       | LOCO LIQ LIQ... | -26.30998   | 28.10632     |   |
|   | 143         | CALTEX~FLO...  | -26.263        | 28.1354       | 197       | ZENEX SNACK...  | -26.2993    | 28.093617    |   |
|   | 144         | CALTEX STA...  | -26.34028      | 28.1126       | 198       | GOLDEN BAKE     | -26.31842   | 28.13292     |   |
|   | 145         | NUNOS CONV...  | -26.2649       | 28.11582      | 199       | TOTAL~ALRO...   | -26.317584  | 28.1319      |   |
|   | 146         | CHECKERS~A...  | -26.2545       | 28.1128       | 200       | ALRODE SNA...   | -26.3008    | 28.14        | ▼ |

newzafza.routingDB

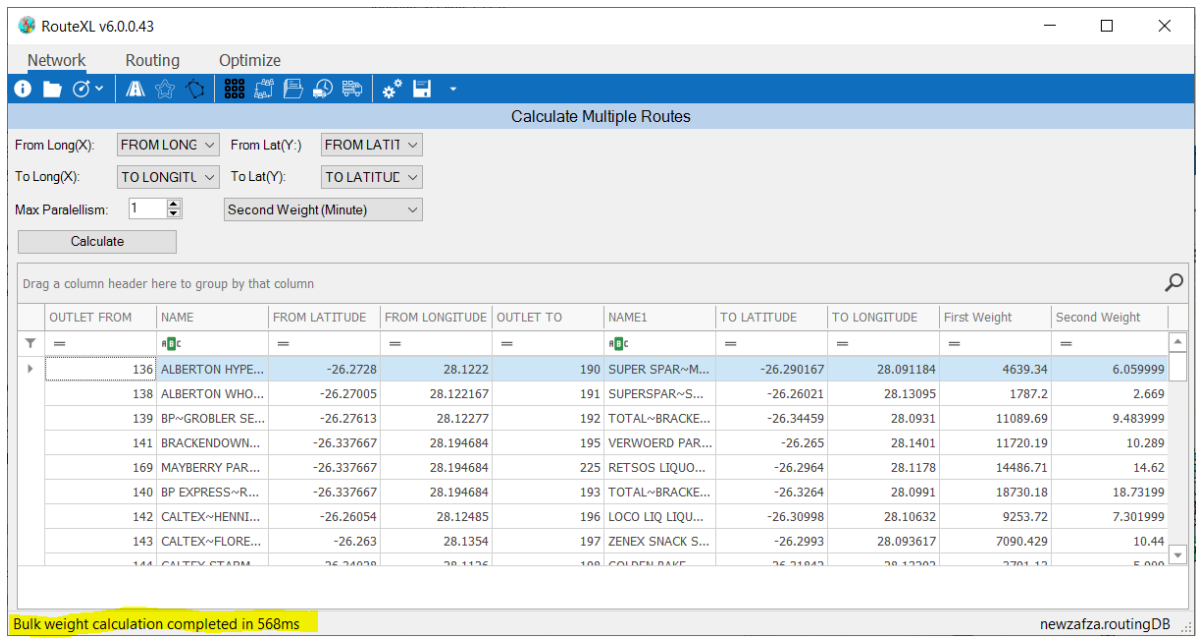
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# Bulk Routing User Guide



Click on **Calculate**.

## Understanding your data



The calculation took 568 milliseconds as you see above.

# Bulk Routing User Guide

RouteXL v6.0.0.43

Network Routing Optimize

Calculate Multiple Routes

From Long(X): FROM LONG From Lat(Y): FROM LATIT  
To Long(X): TO LONGITL To Lat(Y): TO LATITUE  
Max Parallelism: 1 Second Weight (Minute)

Calculate

Drag a column header here to group by that column

| OUTLET FROM       | NAME | FROM LATITUDE | FROM LONGITUDE | OUTLET TO | NAME1            | TO LATITUDE | TO LONGITUDE | First Weight | Second Weight |
|-------------------|------|---------------|----------------|-----------|------------------|-------------|--------------|--------------|---------------|
| 126 ALBERTON LYDE |      | -26.2728      | 28.1222        | 190       | SUPER SPAR~M...  | -26.290167  | 28.091184    | 4639.34      | 6.059999      |
|                   |      | -26.27005     | 28.122167      | 191       | SUPERSPAR~S...   | -26.26021   | 28.13095     | 1787.2       | 2.669         |
|                   |      | -26.27613     | 28.12277       | 192       | TOTAL~BRACKE...  | -26.34459   | 28.0931      | 11089.69     | 9.483999      |
|                   |      | -26.337667    | 28.194684      | 195       | VERWOERD PAR...  | -26.265     | 28.1401      | 11720.19     | 10.289        |
|                   |      |               | 194684         | 225       | RETSOS LIQUO...  | -26.2964    | 28.1178      | 14486.71     | 14.62         |
|                   |      |               | 194684         | 193       | TOTAL~BRACKE...  | -26.3264    | 28.0991      | 18730.18     | 18.73199      |
|                   |      | -26.26054     | 28.12485       | 196       | LOCO LIQ LIQU... | -26.30998   | 28.10632     | 9253.72      | 7.301999      |
|                   |      | -26.263       | 28.1354        | 197       | ZENEX SNACK S... | -26.2993    | 28.093617    | 7090.429     | 10.44         |
|                   |      | -26.26038     | 28.1136        | 198       | GOLDEN BAKE...   | -26.21843   | 28.13383     | 3781.13      | 5.000         |

Bulk weight calculation completed in 568ms

newzafza.routingDB

You can copy, save, pivot and import a CSV File for further analysis.

## Support

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