

Zero Rate Curve Bootstrapping

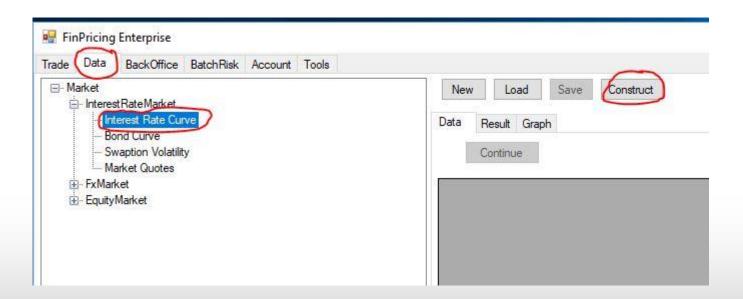
Market Data



- Yield curves can be derived from government bonds or LIBOR/swap instruments.
- The term structure of zero rates is constructed from a set of market quotes of some liquid market instruments such as short term cash instruments, middle term futures or forward rate agreement (FRA), long term swaps and spreads.
- Curve construction was based on single-curve approach. However, after the financial crisis, curve bootstrapping started to use multicurve approach that consists of a unique discounting curve and multiple forecasting curves

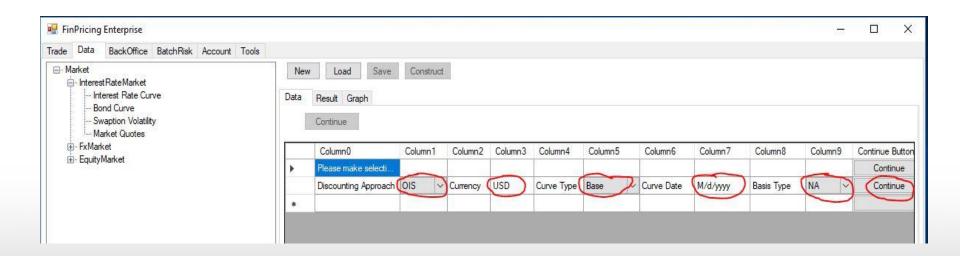


 Click the Data tab at the top-left corner of the application. Then, expend Market -> InterestRateMarket -> Interest Rate Curve and click the Construct button.



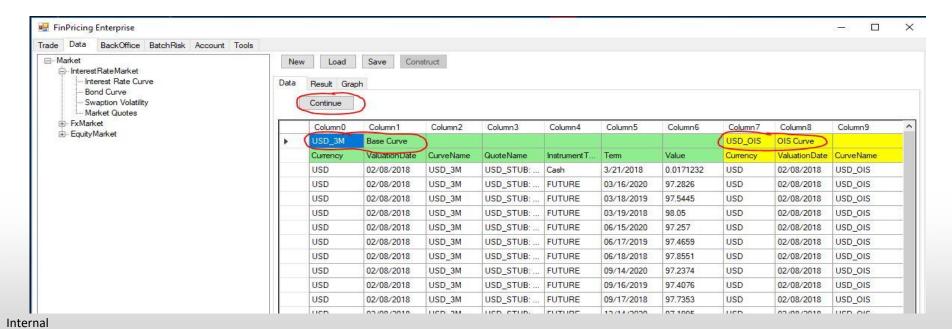


 A selection template is displayed in the main window. Select Discounting Approach (e.g., OIS), Curve Type (e.g., Base) and Basis Type (e.g., NA for base curve), fill Currency (e.g., USD), Curve Data (e.g., 2/8/2018) and then click the Continue button at the right of the row.



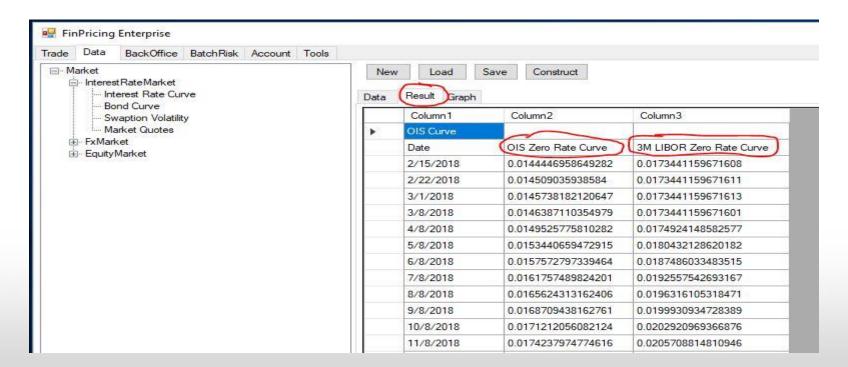


Based on your selection, the system knows what kind of curves needed. So it loads the data in the main window if they are available, otherwise it generates new curve templates in the main window for you to fill. If you fill new curves, you need to click the Save button to save them





 After filling/validating data, click the Continue button above the main window. FinPricing starts to construct the interest rate curve. The results are shown in the Result tab.





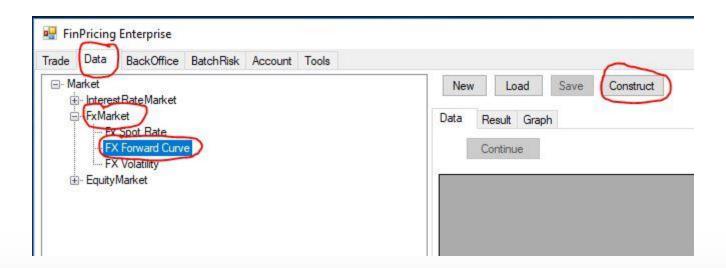
 Based on the results above, a more visually intuitive yield curve graph is provided in the Graph tab.





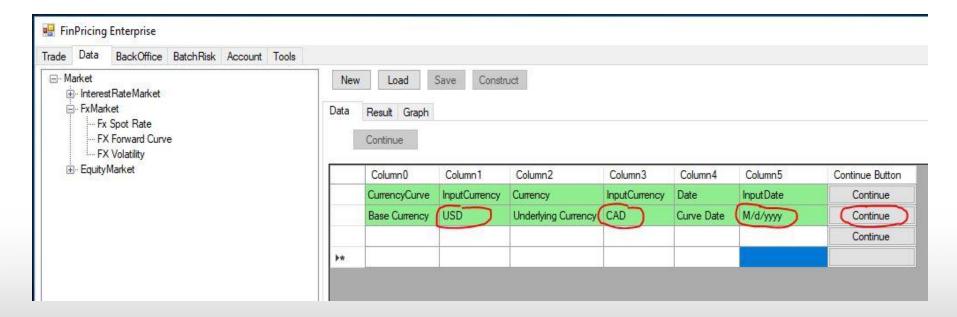
How to Construct FX Forward Curve?

Click the Data tab at the top-left corner of the application. Then, expend
Market -> FxMarket -> FX Forward Curve and click the Construct button.



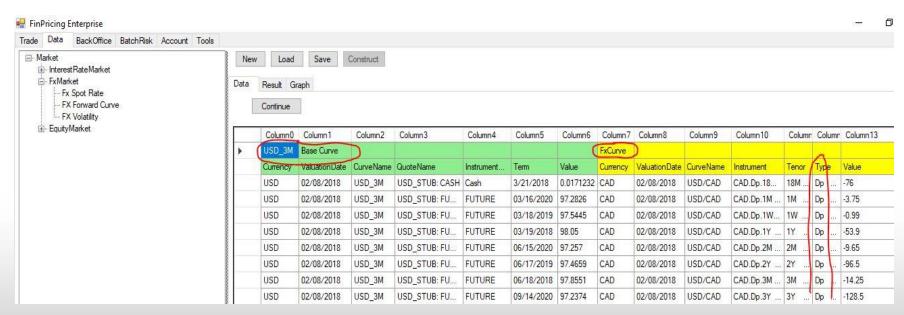


Click the Data tab at the top-left corner of the application. Then, expend
Market -> FxMarket -> FX Forward Curve and click the Construct button.



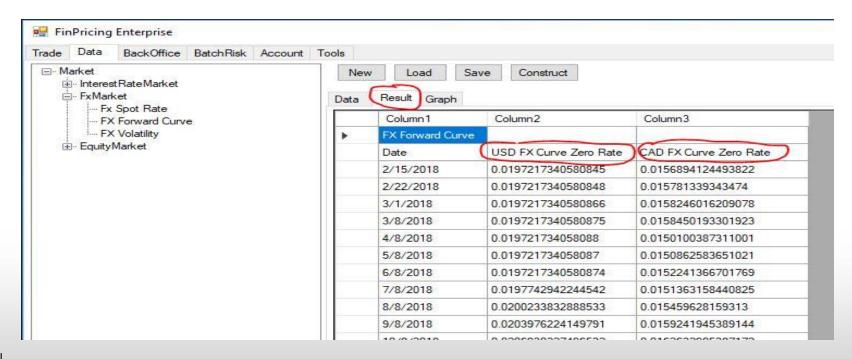


Based on your fillings, the system knows what kind of curves needed. So it loads the curve data in the main window if they are available, otherwise it generates new curve templates in the main window for you to fill. If you fill new curves, you need to click the Save button to save them.





 After filling/validating data, click the Continue button above the main window. FinPricing starts to construct the FX forward curve. The results are shown in the Result tab.





 Based on the results above, a more visually intuitive currency forward curve graph is provided in the Graph tab..





Thank You

You can find more detailsat

https://finpricing.com/lib/EqSpread.html