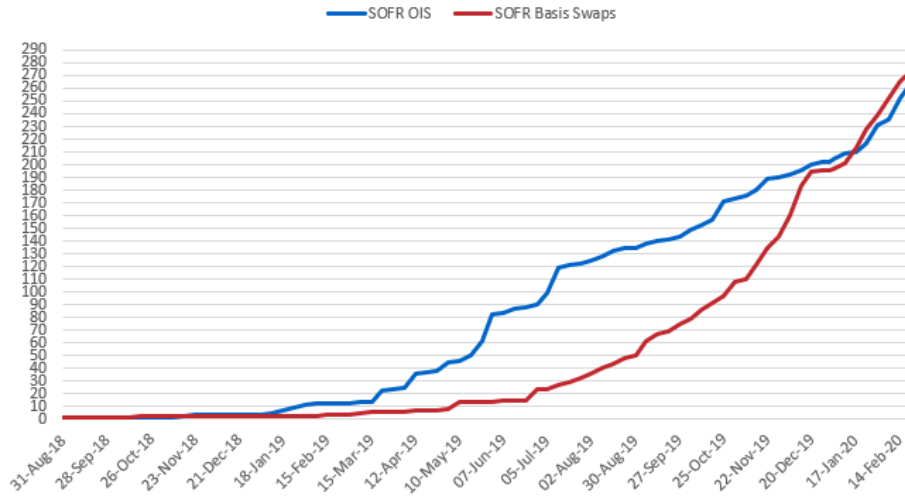


As part of our ongoing efforts to help you monitor the potential replacement of LIBOR and/or OIS by newly designated alternative reference rates (ARR), we have summarized the latest market activity for the ARR for USD LIBOR, SOFR. Further details about these market changes are available in our [LIBOR Replacement Watchlist](#).

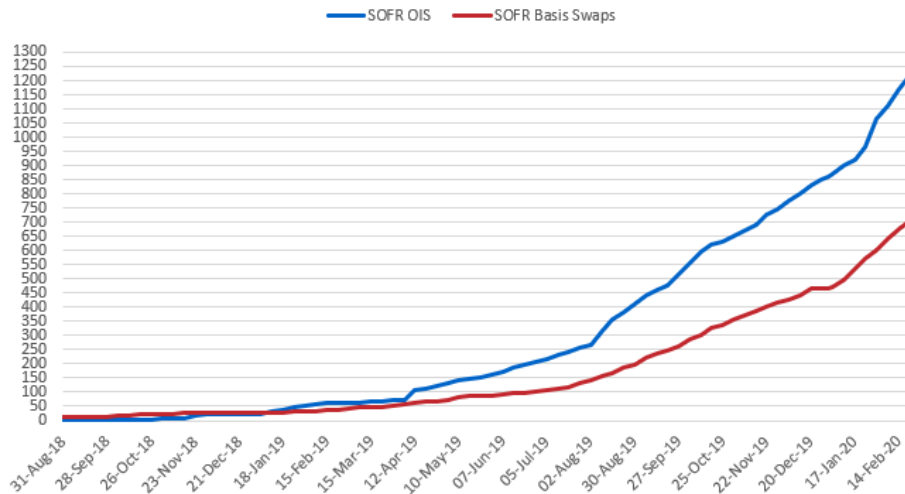
## SOFR Swap Trading through Feb 2020

SOFR basis swaps have begun to overtake SOFR OIS swaps but this seems to be due to traded notional, not trade count. In addition to SOFR futures options now trading on the CME, the first two SOFR Swaptions have also traded. See [ISDA Analysis](#) for more details.

Cumulative Traded Notional for SOFR-based OIS and Basis Swaps



Cumulative Trade Count for SOFR-based OIS and Basis Swaps

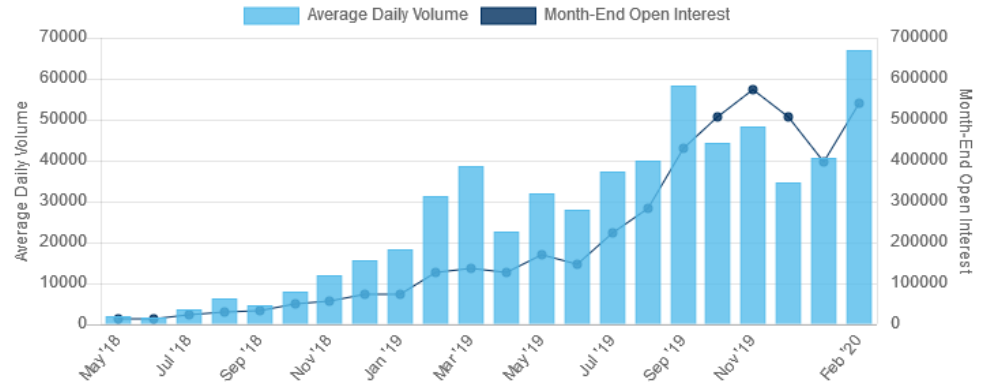


ISDA Analysis on SOFR Swaps. (For trades reported to DTCC and Bloomberg SDRs which are required to be disclosed under US regulatory guidelines)

## SOFR Futures through Feb 2020

Futures trading was largely in line with Q4 2019. See [latest SOFR futures recap from the CME](#).

CME SOFR Futures

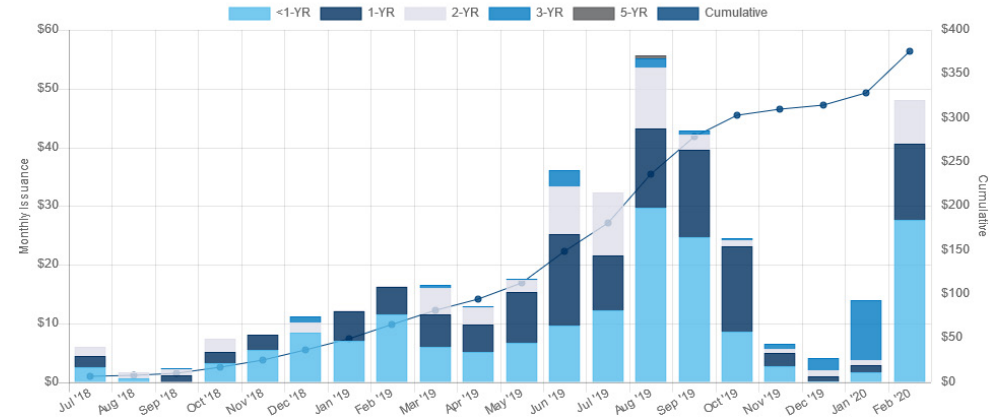


CME Futures Volume Chart

## SOFR-based Debt Issuances-to-date

Overall, 49 institutions have issued \$376 billion notional in floating rate instruments tied to SOFR, with a new monthly high of over \$10B issued in the 3-year tenor during January 2020, with February as the second highest with \$48B issued.

SOFR Issuance by Tenor (\$ Billions)



Source: Bloomberg, compiled by CME Group for informational purposes. CME Group does not warrant the accuracy or completeness of the information.

## About pasVal

pasVal provides a simple web-based interface to the powerful valuation engine developed by Principia. This allows access to streamlined and sophisticated pricing tools needed to grow a business without requiring counterproductive investments in cumbersome system infrastructure. This includes independent valuations, CVA credit adjustments, hedge effectiveness testing and comprehensive reporting for GASB 72, ASC 820, GASB 53 and ASC 815.

### Simple & Sophisticated Solution

### About Principia Partners

Principia Partners LLC (Principia) provides solutions for derivative and structured finance operations. Global financial institutions and independent asset managers have used the award-winning Principia Structured Finance Platform since 1995 to unify investment analysis, portfolio management, risk surveillance, accounting and operational control across the breadth of structured credit assets, fixed income investments and complex derivatives. In 2015, Principia launched its Analytic Service, pasVal, to make its award-winning analytics available to an even broader range of businesses.

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