



FRA and DV01 Neutral Strategies on DI1

Learn about the strategies

DI1 strategies are Structured Transactions that combine two DI Futures Contract maturities with calibrated quantities to neutralize the maturities Unit Price (FRA/UP Neutral) or the maturities DV01 (Neutral/Slope).

The main goal of this product is to offer an efficient way to trade Yield Curve strategies without execution risk and in a transparent manner.

It should be noted that, as this is a Structured Transaction, the product does not represent a new contract and does not have open positions at EOD since all trades are broken into DI Futures maturities.

The DI Futures Contract has the average daily rate of Interbank Deposits (DI) as its underlying asset. The average daily rate is calculated and disclosed by B3 between the Trading Date (inclusive) and the expiration date (exclusive), and is used to hedge and manage the interest rate risk of assets/liabilities benchmarked to DI.

Target audience

- ✓ Banks
- ✓ Hedge Funds
- ✓ Non-resident investors
- ✓ Brokerage houses
- ✓ Distributors

What are the advantages?



Execution risk eliminated



Fee structure in line with the strategy's exposure and a 70% discount for day trades between strategies and outrights



Greater transparency to the market



Potential to leverage a greater volume of trades

How it works

When trading a DI1 strategy, participants will automatically receive 2 maturities for the DI Futures Contract in a ratio that equals the leg UPs (for FRA strategies) or the leg DV01 (for Slope strategies). To define this ratio, at the end of the last trading session of each week a ratio is calculated for each strategy and this ratio will be valid and applied throughout the following week.

Specifications

DI1 STRATEGIES

Characteristics	DV01 Neutral (slope)	Neutral UP (FRA)
Ticker	DII + MAAMAA	DIF + MAAMAA
Quotation	Rate differential between maturities	Forward rate between maturities
Tick Size	0.005% for Nearby Month EDSs with maturity up to 5 years and 0.01% for Nearby Month EDSs with maturity over 5 years	
Round Lot	5 contracts	
Ratio¹	Ratio = $\frac{DV01_{\text{Deferred Month}}}{DV01_{\text{Nearby Month}}}$	Ratio = $\frac{UP_{\text{Deferred Month}}}{UP_{\text{Nearby Month}}}$
Leg Contract Qty	$QTY_{\text{Deferred Month}} = QTY_{\text{Traded}}$ $QTY_{\text{Nearby Month}} = QTY_{\text{Deferred Month}} \times \text{Ratio}$	
Leg Prices	$P_{\text{Deferred Month}} = P^2_{\text{Deferred Month}}$ $P_{\text{Nearby Month}} = P_{\text{Deferred Month}} - P_{\text{Traded}}$	$P_{\text{Deferred Month}} = P^2_{\text{Deferred Month}}$ $P_{\text{Nearby Month}} = \text{Composition FRA Rate and } P_{\text{Deferred Month}}$

1 It will be calculated every last trading session of the week and is valid throughout the following week.

2 Middle band price of the leg.

Example 1: FRA Strategy Purchase between DI1F23 and DI1F25

Trading Date	MAY 3, 2022
Ticker	DIFF23F25
Traded Price	14.00%
Traded Quantity	200 Contracts
Ratio	0.801947 ←
BDs to DI1F23 maturity	169
BDs to DI1F25 maturity	672

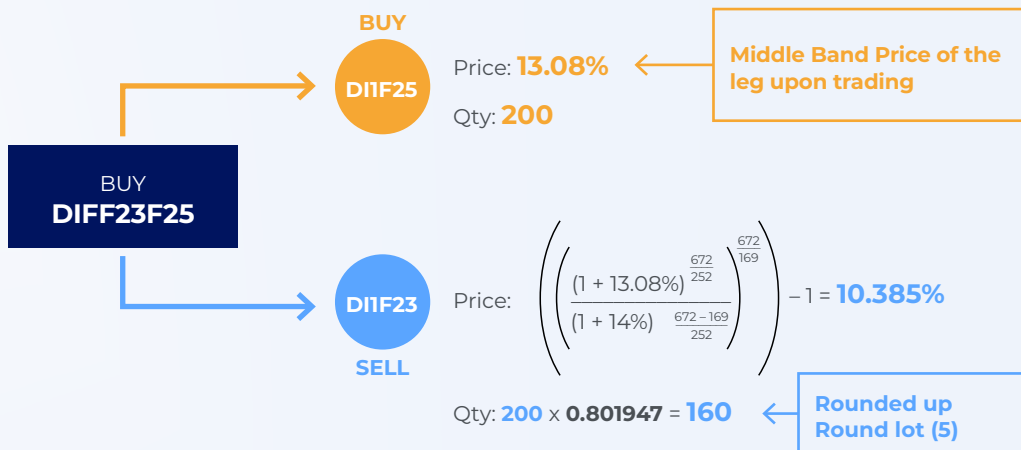
Leg UPs on April 29, 2022

(calculation date of ratio to be applied on the trading week)

DI1F25: R\$73,798.96

DI1F23: R\$92,024.67

Ratio: F25 divided by F23 = 0.801947



Example 2: DV01 Neutral Strategy Sale between DI1F23 and DI1F25

Trading Date	MAY 3, 2022
Ticker	DIFF23F25
Traded Price	0.20%
Traded Quantity	500 Contracts
Ratio	3.148148 ←

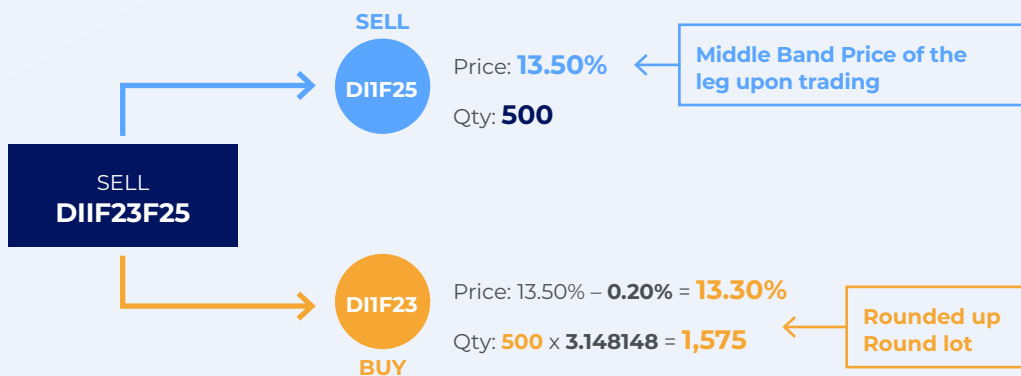
Leg DV01 on April 29, 2022

(calculation date of ratio to be applied on the trading week)

DI1F25: R\$17.00

DI1F23: R\$5.40

Ratio: F25 divided by F23 = 3.148148

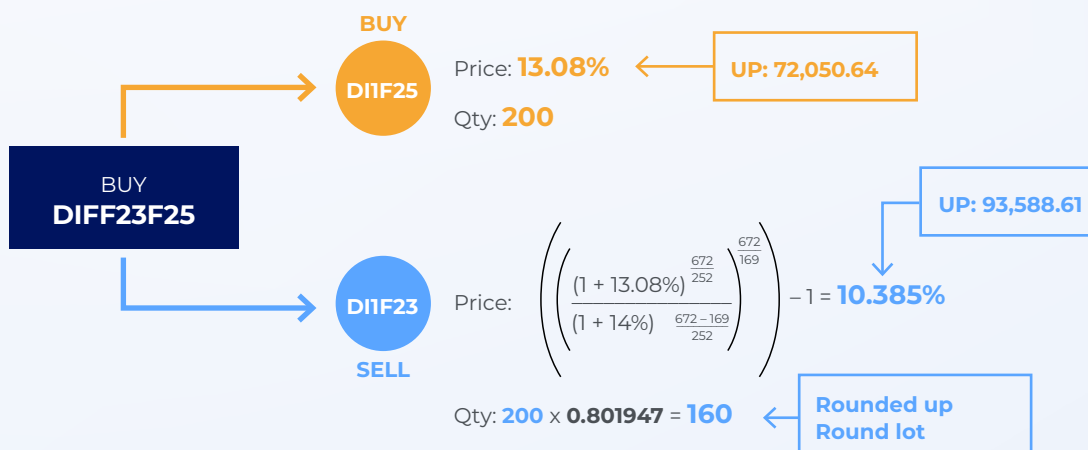


Example 3: FRA Strategy Arbitrage with Outrights

An investor carries out a **DIIF23** and **DIIF25** FRA strategy trade at the price of 14% (example 1). However, he notices that if he executes an outright sell for this strategy he will make a profit since by realizing the FRA price from the prices being traded in the legs, the FRA price will be 14.03%.

Trading Date	MAY 3, 2022
Ticker	DIFF23F25
Traded Price	14.00%
Traded Quantity	200 Contracts
Ratio	0.801947
BDs to DIIF23 maturity	169
BDs to DIIF25 maturity	672

Step 1: Strategy Trading



Step 2: Trading the Strategy Outrights

Maturity	DIIF25
Transaction	SELL
Price	13.08%
UP	72,050.64
Quantity	200

Maturity	DIIF23
Transaction	BUY
Price	10.30%
UP	93,636.97
Quantity	160

Resultado Final

DIIF25
UP Buy (Strategy transaction): R\$72,050.64
UP Sell (Outright transaction): R\$72,050.64
Result: R\$0,00

DIIF23
UP Sell (Strategy transaction): R\$93,588.61
UP Buy (Outright transaction): R\$93,636.97
Result: R\$48.36 per Contract

To learn more about Structured Transactions, click on the link below or talk to your RM

I want to learn more

