



International Derivatives Clearing Group, LLC  
 150 East 52nd Street  
 5th Floor  
 New York, NY 10022  
 212.933.9800 office  
 212.933.9801 fax  
 www.IDCG.com

**IDCG Announcement #2011-0011**

**International Derivatives Clearinghouse Initial Margin Report**

October 4, 2011

To: All Clearing Participants  
 From: Market Operations  
 Subject: Indicative Margin Levels as of October 4, 2011  
 Contract Size: 1  
 Notional Value Per Contract: 100,000  
 Currency: USD

| Product Type | Initial Margin Risk Bucket | Current Initial Margin  | Previous Initial Margin | Change |
|--------------|----------------------------|-------------------------|-------------------------|--------|
|              |                            | Levels (4-<br>Oct-2011) | Levels<br>(1-Sep-2011)  |        |
|              |                            | USD                     | USD                     | USD    |
| IRSU         | USD_IRS_3M_FUT_30Y         | 15,700                  | 15,700                  | 0      |
| IRSU         | USD_IRS_3M_FUT_25Y         | 14,000                  | 14,000                  | 0      |
| IRSU         | USD_IRS_3M_FUT_20Y         | 12,100                  | 12,100                  | 0      |
| IRSU         | USD_IRS_3M_FUT_15Y         | 9,800                   | 9,800                   | 0      |
| IRSU         | USD_IRS_3M_FUT_10Y         | 6,900                   | 6,900                   | 0      |
| IRSU         | USD_IRS_3M_FUT_09Y         | 6,200                   | 6,200                   | 0      |
| IRSU         | USD_IRS_3M_FUT_08Y         | 5,400                   | 5,400                   | 0      |
| IRSU         | USD_IRS_3M_FUT_07Y         | 4,700                   | 4,700                   | 0      |
| IRSU         | USD_IRS_3M_FUT_06Y         | 3,800                   | 3,800                   | 0      |
| IRSU         | USD_IRS_3M_FUT_05Y         | 3,200                   | 3,200                   | 0      |
| IRSU         | USD_IRS_3M_FUT_04Y         | 2,300                   | 2,300                   | 0      |
| IRSU         | USD_IRS_3M_FUT_03Y         | 1,400                   | 1,400                   | 0      |
| IRSU         | USD_IRS_3M_FUT_02Y         | 700                     | 700                     | 0      |
| FRA3M        | USD_FRA_3M_FUT_24M         | 200                     | 200                     | 0      |
| FRA3M        | USD_FRA_3M_FUT_18M         | 200                     | 200                     | 0      |
| FRA3M        | USD_FRA_3M_FUT_12M         | 150                     | 150                     | 0      |
| FRA3M        | USD_FRA_3M_FUT_06M         | 150                     | 150                     | 0      |
| IRS1M        | USD_IRS_1M_FUT_30Y         | 15,700                  | 15,700                  | 0      |
| IRS1M        | USD_IRS_1M_FUT_25Y         | 14,000                  | 14,000                  | 0      |
| IRS1M        | USD_IRS_1M_FUT_20Y         | 12,100                  | 12,100                  | 0      |
| IRS1M        | USD_IRS_1M_FUT_15Y         | 9,800                   | 9,800                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_10Y         | 6,900                   | 6,900                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_09Y         | 6,200                   | 6,200                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_08Y         | 5,400                   | 5,400                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_07Y         | 4,700                   | 4,700                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_06Y         | 3,800                   | 3,800                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_05Y         | 3,200                   | 3,200                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_04Y         | 2,300                   | 2,300                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_03Y         | 1,400                   | 1,400                   | 0      |
| IRS1M        | USD_IRS_1M_FUT_02Y         | 700                     | 700                     | 0      |
| IRS1M        | USD_IRS_1M_FUT_01Y         | 700                     | 700                     | 0      |
| FRA1M        | USD_FRA_1M_FUT_24M         | 200                     | 200                     | 0      |
| FRA1M        | USD_FRA_1M_FUT_18M         | 200                     | 200                     | 0      |
| FRA1M        | USD_FRA_1M_FUT_12M         | 150                     | 150                     | 0      |
| FRA1M        | USD_FRA_1M_FUT_06M         | 150                     | 150                     | 0      |
| OIS          | USD_OIS_OIS_FUT_02Y        | 700                     | 700                     | 0      |
| OIS          | USD_OIS_OIS_FUT_12M        | 700                     | 700                     | 0      |
| QIS          | USD_QIS_3M_FUT_30Y         | 15,700                  | 15,700                  | 0      |
| QIS          | USD_QIS_3M_FUT_25Y         | 14,000                  | 14,000                  | 0      |

Note: All Off-The-Run futures contracts will be margined at the next highest maturity bucket until rolled into the next lowest spot maturity bucket

| Product Type | Initial Margin Risk Bucket | Current Initial Margin Levels (4-Oct-2011) | Previous Initial Margin Levels (1-Sep-2011) | Change |
|--------------|----------------------------|--|---|--------|
|              |                            | USD  | USD   | USD    |
| QIS          | USD_QIS_3M_FUT_20Y         | 12,100                                     | 12,100                                      | 0      |
| QIS          | USD_QIS_3M_FUT_15Y         | 9,800                                      | 9,800                                       | 0      |
| QIS          | USD_QIS_3M_FUT_10Y         | 6,900                                      | 6,900                                       | 0      |
| QIS          | USD_QIS_3M_FUT_09Y         | 6,200                                      | 6,200                                       | 0      |
| QIS          | USD_QIS_3M_FUT_08Y         | 5,400                                      | 5,400                                       | 0      |
| QIS          | USD_QIS_3M_FUT_07Y         | 4,700                                      | 4,700                                       | 0      |
| QIS          | USD_QIS_3M_FUT_06Y         | 3,800                                      | 3,800                                       | 0      |
| QIS          | USD_QIS_3M_FUT_05Y         | 3,200                                      | 3,200                                       | 0      |
| QIS          | USD_QIS_3M_FUT_04Y         | 2,300                                      | 2,300                                       | 0      |
| QIS          | USD_QIS_3M_FUT_03Y         | 1,400                                      | 1,400                                       | 0      |
| QIS          | USD_QIS_3M_FUT_02Y         | 700  | 700   | 0      |

**Please call or e-mail one of the following contacts if you have any questions:**

|                   |                |  |
|-------------------|----------------|--|
| Michael Dundon    | (646) 867-2528 | <a href="mailto:Michael.Dundon@idcg.com">Michael.Dundon@idcg.com</a>     |
| Richard Taveras   | (646) 867-2531 | <a href="mailto:Richard.Taveras@idcg.com">Richard.Taveras@idcg.com</a>   |
| Market Operations | (888) 688-4324 | <a href="mailto:MarketOperations@idcg.com">MarketOperations@idcg.com</a> |

**Disclaimer: IDCH reserves the right to change margin requirements at anytime without prior notice**



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**IDCH Margin Offset/Relief Rate Table**

| ID                                      | Offset Ratio | Relief Rate | Priority |
|---|--------------|-------------|----------|
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_30Y   | 1.00         | 0.90        | 1        |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_25Y   | 1.00         | 0.90        | 2        |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_20Y   | 1.00         | 0.90        | 3        |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_15Y   | 1.00         | 0.90        | 4        |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_10Y   | 1.00         | 0.90        | 5        |
| USD_IRS_3M_FUT_09YxUSD_IRS_3M_FUT_09Y   | 1.00         | 0.90        | 6        |
| USD_IRS_3M_FUT_08YxUSD_IRS_3M_FUT_08Y   | 1.00         | 0.90        | 7        |
| USD_IRS_3M_FUT_07YxUSD_IRS_3M_FUT_07Y   | 1.00         | 0.90        | 8        |
| USD_IRS_3M_FUT_06YxUSD_IRS_3M_FUT_06Y   | 1.00         | 0.90        | 9        |
| USD_IRS_3M_FUT_05YxUSD_IRS_3M_FUT_05Y   | 1.00         | 0.90        | 10       |
| USD_IRS_3M_FUT_04YxUSD_IRS_3M_FUT_04Y   | 1.00         | 0.90        | 11       |
| USD_IRS_3M_FUT_03YxUSD_IRS_3M_FUT_03Y   | 1.00         | 0.90        | 12       |
| USD_IRS_3M_FUT_02YxUSD_IRS_3M_FUT_02Y   | 1.00         | 0.90        | 13       |
| USD_FRA_3M_FUT_24MxUSD_FRA_3M_FUT_24M   | 1.00         | 0.90        | 14       |
| USD_FRA_3M_FUT_18MxUSD_FRA_3M_FUT_18M   | 1.00         | 0.90        | 15       |
| USD_FRA_3M_FUT_12MxUSD_FRA_3M_FUT_12M   | 1.00         | 0.90        | 16       |
| USD_FRA_3M_FUT_06MxUSD_FRA_3M_FUT_06M   | 1.00         | 0.90        | 17       |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_30Y   | 1.00         | 0.90        | 18       |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_25Y   | 1.00         | 0.90        | 19       |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_20Y   | 1.00         | 0.90        | 20       |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_15Y   | 1.00         | 0.90        | 21       |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_10Y   | 1.00         | 0.90        | 22       |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_09Y   | 1.00         | 0.90        | 23       |
| USD_IRS_1M_FUT_08YxUSD_IRS_1M_FUT_08Y   | 1.00         | 0.90        | 24       |
| USD_IRS_1M_FUT_07YxUSD_IRS_1M_FUT_07Y   | 1.00         | 0.90        | 25       |
| USD_IRS_1M_FUT_06YxUSD_IRS_1M_FUT_06Y   | 1.00         | 0.90        | 26       |
| USD_IRS_1M_FUT_05YxUSD_IRS_1M_FUT_05Y   | 1.00         | 0.90        | 27       |
| USD_IRS_1M_FUT_04YxUSD_IRS_1M_FUT_04Y   | 1.00         | 0.90        | 28       |
| USD_IRS_1M_FUT_03YxUSD_IRS_1M_FUT_03Y   | 1.00         | 0.90        | 29       |
| USD_IRS_1M_FUT_02YxUSD_IRS_1M_FUT_02Y   | 1.00         | 0.90        | 30       |
| USD_IRS_1M_FUT_01YxUSD_IRS_1M_FUT_01Y   | 1.00         | 0.90        | 31       |
| USD_FRA_1M_FUT_24MxUSD_FRA_1M_FUT_24M   | 1.00         | 0.90        | 32       |
| USD_FRA_1M_FUT_18MxUSD_FRA_1M_FUT_18M   | 1.00         | 0.90        | 33       |
| USD_FRA_1M_FUT_12MxUSD_FRA_1M_FUT_12M   | 1.00         | 0.90        | 34       |
| USD_FRA_1M_FUT_06MxUSD_FRA_1M_FUT_06M   | 1.00         | 0.90        | 35       |
| USD_OIS_OIS_FUT_02YxUSD_OIS_OIS_FUT_02Y | 1.00         | 0.90        | 36       |
| USD_OIS_OIS_FUT_12MxUSD_OIS_OIS_FUT_12M | 1.00         | 0.90        | 37       |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_30Y   | 1.00         | 0.90        | 38       |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_25Y   | 1.00         | 0.90        | 39       |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_20Y   | 1.00         | 0.90        | 40       |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_15Y   | 1.00         | 0.90        | 41       |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_10Y   | 1.00         | 0.90        | 42       |
| USD_QIS_3M_FUT_09YxUSD_QIS_3M_FUT_09Y   | 1.00         | 0.90        | 43       |
| USD_QIS_3M_FUT_08YxUSD_QIS_3M_FUT_08Y   | 1.00         | 0.90        | 44       |
| USD_QIS_3M_FUT_07YxUSD_QIS_3M_FUT_07Y   | 1.00         | 0.90        | 45       |
| USD_QIS_3M_FUT_06YxUSD_QIS_3M_FUT_06Y   | 1.00         | 0.90        | 46       |
| USD_QIS_3M_FUT_05YxUSD_QIS_3M_FUT_05Y   | 1.00         | 0.90        | 47       |
| USD_QIS_3M_FUT_04YxUSD_QIS_3M_FUT_04Y   | 1.00         | 0.90        | 48       |
| USD_QIS_3M_FUT_03YxUSD_QIS_3M_FUT_03Y   | 1.00         | 0.90        | 49       |
| USD_QIS_3M_FUT_02YxUSD_QIS_3M_FUT_02Y   | 1.00         | 0.90        | 50       |

| ID                                    | Offset Ratio | Relief Rate | Priority |
|---------------------------------------|--------------|-------------|----------|
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_25Y | 1.11         | 0.90        | 51       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_20Y | 1.27         | 0.90        | 52       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_15Y | 1.51         | 0.90        | 53       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_10Y | 2.04         | 0.90        | 54       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_09Y | 2.24         | 0.90        | 55       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_08Y | 2.50         | 0.90        | 56       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_07Y | 2.86         | 0.85        | 57       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_06Y | 3.38         | 0.80        | 58       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_05Y | 4.17         | 0.80        | 59       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_04Y | 5.64         | 0.75        | 60       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_03Y | 8.81         | 0.65        | 61       |
| USD_IRS_3M_FUT_30YxUSD_IRS_3M_FUT_02Y | 15.75        | 0.55        | 62       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_20Y | 1.14         | 0.90        | 63       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_15Y | 1.36         | 0.90        | 64       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_10Y | 1.84         | 0.90        | 65       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_09Y | 2.02         | 0.90        | 66       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_08Y | 2.26         | 0.90        | 67       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_07Y | 2.58         | 0.85        | 68       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_06Y | 3.05         | 0.85        | 69       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_05Y | 3.76         | 0.80        | 70       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_04Y | 5.09         | 0.75        | 71       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_03Y | 7.96         | 0.65        | 72       |
| USD_IRS_3M_FUT_25YxUSD_IRS_3M_FUT_02Y | 14.22        | 0.55        | 73       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_15Y | 1.19         | 0.90        | 74       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_10Y | 1.61         | 0.90        | 75       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_09Y | 1.77         | 0.90        | 76       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_08Y | 1.98         | 0.90        | 77       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_07Y | 2.25         | 0.90        | 78       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_06Y | 2.66         | 0.85        | 79       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_05Y | 3.29         | 0.80        | 80       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_04Y | 4.45         | 0.75        | 81       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_03Y | 6.96         | 0.70        | 82       |
| USD_IRS_3M_FUT_20YxUSD_IRS_3M_FUT_02Y | 12.43        | 0.55        | 83       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_10Y | 1.35         | 0.90        | 84       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_09Y | 1.49         | 0.90        | 85       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_08Y | 1.66         | 0.90        | 86       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_07Y | 1.90         | 0.90        | 87       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_06Y | 2.24         | 0.90        | 88       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_05Y | 2.77         | 0.85        | 89       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_04Y | 3.74         | 0.80        | 90       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_03Y | 5.85         | 0.75        | 91       |
| USD_IRS_3M_FUT_15YxUSD_IRS_3M_FUT_02Y | 10.46        | 0.60        | 92       |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_09Y | 1.10         | 0.90        | 93       |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_08Y | 1.23         | 0.90        | 94       |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_07Y | 1.40         | 0.90        | 95       |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_06Y | 1.66         | 0.90        | 96       |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_05Y | 2.04         | 0.90        | 97       |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_04Y | 2.76         | 0.85        | 98       |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_03Y | 4.32         | 0.80        | 99       |
| USD_IRS_3M_FUT_10YxUSD_IRS_3M_FUT_02Y | 7.73         | 0.70        | 100      |
| USD_IRS_3M_FUT_09YxUSD_IRS_3M_FUT_08Y | 1.12         | 0.90        | 101      |
| USD_IRS_3M_FUT_09YxUSD_IRS_3M_FUT_07Y | 1.28         | 0.90        | 102      |
| USD_IRS_3M_FUT_09YxUSD_IRS_3M_FUT_06Y | 1.51         | 0.90        | 103      |
| USD_IRS_3M_FUT_09YxUSD_IRS_3M_FUT_05Y | 1.86         | 0.90        | 104      |
| USD_IRS_3M_FUT_09YxUSD_IRS_3M_FUT_04Y | 2.52         | 0.90        | 105      |
| USD_IRS_3M_FUT_09YxUSD_IRS_3M_FUT_03Y | 3.94         | 0.80        | 106      |
| USD_IRS_3M_FUT_09YxUSD_IRS_3M_FUT_02Y | 7.04         | 0.70        | 107      |
| USD_IRS_3M_FUT_08YxUSD_IRS_3M_FUT_07Y | 1.14         | 0.90        | 108      |
| USD_IRS_3M_FUT_08YxUSD_IRS_3M_FUT_06Y | 1.35         | 0.90        | 109      |
| USD_IRS_3M_FUT_08YxUSD_IRS_3M_FUT_05Y | 1.67         | 0.90        | 110      |

| ID                                    | Offset Ratio | Relief Rate | Priority |
|---------------------------------------|--------------|-------------|----------|
| USD_IRS_3M_FUT_08YxUSD_IRS_3M_FUT_04Y | 2.25         | 0.90        | 111      |
| USD_IRS_3M_FUT_08YxUSD_IRS_3M_FUT_03Y | 3.52         | 0.85        | 112      |
| USD_IRS_3M_FUT_08YxUSD_IRS_3M_FUT_02Y | 6.29         | 0.75        | 113      |
| USD_IRS_3M_FUT_07YxUSD_IRS_3M_FUT_06Y | 1.18         | 0.90        | 114      |
| USD_IRS_3M_FUT_07YxUSD_IRS_3M_FUT_05Y | 1.46         | 0.90        | 115      |
| USD_IRS_3M_FUT_07YxUSD_IRS_3M_FUT_04Y | 1.97         | 0.90        | 116      |
| USD_IRS_3M_FUT_07YxUSD_IRS_3M_FUT_03Y | 3.09         | 0.85        | 117      |
| USD_IRS_3M_FUT_07YxUSD_IRS_3M_FUT_02Y | 5.52         | 0.75        | 118      |
| USD_IRS_3M_FUT_06YxUSD_IRS_3M_FUT_05Y | 1.23         | 0.90        | 119      |
| USD_IRS_3M_FUT_06YxUSD_IRS_3M_FUT_04Y | 1.67         | 0.90        | 120      |
| USD_IRS_3M_FUT_06YxUSD_IRS_3M_FUT_03Y | 2.61         | 0.90        | 121      |
| USD_IRS_3M_FUT_06YxUSD_IRS_3M_FUT_02Y | 4.67         | 0.80        | 122      |
| USD_IRS_3M_FUT_05YxUSD_IRS_3M_FUT_04Y | 1.35         | 0.90        | 123      |
| USD_IRS_3M_FUT_05YxUSD_IRS_3M_FUT_03Y | 2.11         | 0.90        | 124      |
| USD_IRS_3M_FUT_05YxUSD_IRS_3M_FUT_02Y | 3.78         | 0.85        | 125      |
| USD_IRS_3M_FUT_04YxUSD_IRS_3M_FUT_03Y | 1.56         | 0.90        | 126      |
| USD_IRS_3M_FUT_04YxUSD_IRS_3M_FUT_02Y | 2.79         | 0.85        | 127      |
| USD_IRS_3M_FUT_03YxUSD_IRS_3M_FUT_02Y | 1.79         | 0.90        | 128      |
| USD_FRA_3M_FUT_24MxUSD_FRA_3M_FUT_18M | 1.25         | 0.75        | 129      |
| USD_FRA_3M_FUT_24MxUSD_FRA_3M_FUT_12M | 1.80         | 0.60        | 130      |
| USD_FRA_3M_FUT_24MxUSD_FRA_3M_FUT_06M | 2.50         | 0.00        | 131      |
| USD_FRA_3M_FUT_18MxUSD_FRA_3M_FUT_12M | 1.44         | 0.90        | 132      |
| USD_FRA_3M_FUT_18MxUSD_FRA_3M_FUT_06M | 2.00         | 0.50        | 133      |
| USD_FRA_3M_FUT_12MxUSD_FRA_3M_FUT_06M | 1.39         | 0.75        | 134      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_25Y | 1.12         | 0.90        | 135      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_20Y | 1.29         | 0.90        | 136      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_15Y | 1.57         | 0.90        | 137      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_10Y | 2.15         | 0.90        | 138      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_09Y | 2.36         | 0.90        | 139      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_08Y | 2.64         | 0.85        | 140      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_07Y | 3.02         | 0.80        | 141      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_06Y | 3.60         | 0.80        | 142      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_05Y | 4.47         | 0.75        | 143      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_04Y | 6.05         | 0.65        | 144      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_03Y | 9.5569       | 0.60        | 145      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_02Y | 20.4346      | 0.45        | 146      |
| USD_IRS_1M_FUT_30YxUSD_IRS_1M_FUT_01Y | 69.8032      | 0.00        | 147      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_20Y | 1.1577       | 0.90        | 148      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_15Y | 1.4052       | 0.90        | 149      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_10Y | 1.9223       | 0.90        | 150      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_09Y | 2.1120       | 0.90        | 151      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_08Y | 2.3583       | 0.90        | 152      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_07Y | 2.6993       | 0.85        | 153      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_06Y | 3.2199       | 0.80        | 154      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_05Y | 3.9990       | 0.75        | 155      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_04Y | 5.4060       | 0.70        | 156      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_03Y | 8.5458       | 0.60        | 157      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_02Y | 18.2727      | 0.45        | 158      |
| USD_IRS_1M_FUT_25YxUSD_IRS_1M_FUT_01Y | 62.4181      | 0.00        | 159      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_15Y | 1.2138       | 0.90        | 160      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_10Y | 1.6605       | 0.90        | 161      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_09Y | 1.8244       | 0.90        | 162      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_08Y | 2.0371       | 0.90        | 163      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_07Y | 2.3316       | 0.85        | 164      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_06Y | 2.7813       | 0.85        | 165      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_05Y | 3.4544       | 0.80        | 166      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_04Y | 4.6697       | 0.70        | 167      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_03Y | 7.3818       | 0.65        | 168      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_02Y | 15.7839      | 0.50        | 169      |
| USD_IRS_1M_FUT_20YxUSD_IRS_1M_FUT_01Y | 53.9164      | 0.00        | 170      |

| ID                                    | Offset Ratio | Relief Rate | Priority |
|---------------------------------------|--------------|-------------|----------|
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_10Y | 1.3680       | 0.90        | 171      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_09Y | 1.5030       | 0.90        | 172      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_08Y | 1.6783       | 0.90        | 173      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_07Y | 1.9209       | 0.90        | 174      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_06Y | 2.2914       | 0.85        | 175      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_05Y | 2.8459       | 0.80        | 176      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_04Y | 3.8471       | 0.75        | 177      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_03Y | 6.0815       | 0.70        | 178      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_02Y | 13.0035      | 0.55        | 179      |
| USD_IRS_1M_FUT_15YxUSD_IRS_1M_FUT_01Y | 44.4188      | 0.00        | 180      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_09Y | 1.0987       | 0.90        | 181      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_08Y | 1.2268       | 0.90        | 182      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_07Y | 1.4042       | 0.90        | 183      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_06Y | 1.6750       | 0.90        | 184      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_05Y | 2.0803       | 0.90        | 185      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_04Y | 2.8123       | 0.85        | 186      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_03Y | 4.4456       | 0.75        | 187      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_02Y | 9.5056       | 0.60        | 188      |
| USD_IRS_1M_FUT_10YxUSD_IRS_1M_FUT_01Y | 32.4705      | 0.00        | 189      |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_08Y | 1.1166       | 0.90        | 190      |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_07Y | 1.2781       | 0.90        | 191      |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_06Y | 1.5245       | 0.90        | 192      |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_05Y | 1.8935       | 0.90        | 193      |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_04Y | 2.5596       | 0.85        | 194      |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_03Y | 4.0462       | 0.80        | 195      |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_02Y | 8.6517       | 0.65        | 196      |
| USD_IRS_1M_FUT_09YxUSD_IRS_1M_FUT_01Y | 29.5535      | 0.00        | 197      |
| USD_IRS_1M_FUT_08YxUSD_IRS_1M_FUT_07Y | 1.1446       | 0.90        | 198      |
| USD_IRS_1M_FUT_08YxUSD_IRS_1M_FUT_06Y | 1.3653       | 0.90        | 199      |
| USD_IRS_1M_FUT_08YxUSD_IRS_1M_FUT_05Y | 1.6957       | 0.90        | 200      |
| USD_IRS_1M_FUT_08YxUSD_IRS_1M_FUT_04Y | 2.2923       | 0.90        | 201      |
| USD_IRS_1M_FUT_08YxUSD_IRS_1M_FUT_03Y | 3.6236       | 0.80        | 202      |
| USD_IRS_1M_FUT_08YxUSD_IRS_1M_FUT_02Y | 7.7481       | 0.65        | 203      |
| USD_IRS_1M_FUT_08YxUSD_IRS_1M_FUT_01Y | 26.4669      | 0.00        | 204      |
| USD_IRS_1M_FUT_07YxUSD_IRS_1M_FUT_06Y | 1.1929       | 0.90        | 205      |
| USD_IRS_1M_FUT_07YxUSD_IRS_1M_FUT_05Y | 1.4815       | 0.90        | 206      |
| USD_IRS_1M_FUT_07YxUSD_IRS_1M_FUT_04Y | 2.0027       | 0.90        | 207      |
| USD_IRS_1M_FUT_07YxUSD_IRS_1M_FUT_03Y | 3.1659       | 0.85        | 208      |
| USD_IRS_1M_FUT_07YxUSD_IRS_1M_FUT_02Y | 6.7694       | 0.70        | 209      |
| USD_IRS_1M_FUT_07YxUSD_IRS_1M_FUT_01Y | 23.1238      | 0.00        | 210      |
| USD_IRS_1M_FUT_06YxUSD_IRS_1M_FUT_05Y | 1.2420       | 0.90        | 211      |
| USD_IRS_1M_FUT_06YxUSD_IRS_1M_FUT_04Y | 1.6790       | 0.90        | 212      |
| USD_IRS_1M_FUT_06YxUSD_IRS_1M_FUT_03Y | 2.6541       | 0.90        | 213      |
| USD_IRS_1M_FUT_06YxUSD_IRS_1M_FUT_02Y | 5.6750       | 0.75        | 214      |
| USD_IRS_1M_FUT_06YxUSD_IRS_1M_FUT_01Y | 19.3852      | 0.00        | 215      |
| USD_IRS_1M_FUT_05YxUSD_IRS_1M_FUT_04Y | 1.3518       | 0.90        | 216      |
| USD_IRS_1M_FUT_05YxUSD_IRS_1M_FUT_03Y | 2.1370       | 0.90        | 217      |
| USD_IRS_1M_FUT_05YxUSD_IRS_1M_FUT_02Y | 4.5693       | 0.80        | 218      |
| USD_IRS_1M_FUT_05YxUSD_IRS_1M_FUT_01Y | 15.6082      | 0.00        | 219      |
| USD_IRS_1M_FUT_04YxUSD_IRS_1M_FUT_03Y | 1.5808       | 0.90        | 220      |
| USD_IRS_1M_FUT_04YxUSD_IRS_1M_FUT_02Y | 3.3801       | 0.85        | 221      |
| USD_IRS_1M_FUT_04YxUSD_IRS_1M_FUT_01Y | 11.5460      | 0.00        | 222      |
| USD_IRS_1M_FUT_03YxUSD_IRS_1M_FUT_02Y | 2.1382       | 0.90        | 223      |
| USD_IRS_1M_FUT_03YxUSD_IRS_1M_FUT_01Y | 7.3040       | 0.40        | 224      |
| USD_IRS_1M_FUT_02YxUSD_IRS_1M_FUT_01Y | 3.4159       | 0.60        | 225      |
| USD_FRA_1M_FUT_24MxUSD_FRA_1M_FUT_18M | 1.1604       | 0.90        | 226      |
| USD_FRA_1M_FUT_24MxUSD_FRA_1M_FUT_12M | 1.1056       | 0.00        | 227      |
| USD_FRA_1M_FUT_24MxUSD_FRA_1M_FUT_06M | 2.9714       | 0.00        | 228      |
| USD_FRA_1M_FUT_18MxUSD_FRA_1M_FUT_12M | 0.9528       | 0.00        | 229      |
| USD_FRA_1M_FUT_18MxUSD_FRA_1M_FUT_06M | 2.5606       | 0.00        | 230      |



| ID                                      | Offset Ratio | Relief Rate | Priority |
|---|--------------|-------------|----------|
| USD_FRA_1M_FUT_12MxUSD_FRA_1M_FUT_06M   | 2.6875       | 0.00        | 231      |
| USD_OIS_OIS_FUT_02YxUSD_OIS_OIS_FUT_12M | 4.9876       | 0.60        | 232      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_25Y   | 1.1099       | 0.90        | 233      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_20Y   | 1.2735       | 0.90        | 234      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_15Y   | 1.5238       | 0.90        | 235      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_10Y   | 2.0882       | 0.90        | 236      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_09Y   | 2.3024       | 0.90        | 237      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_08Y   | 2.5825       | 0.90        | 238      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_07Y   | 2.9578       | 0.90        | 239      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_06Y   | 3.5211       | 0.90        | 240      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_05Y   | 4.3849       | 0.85        | 241      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_04Y   | 6.0004       | 0.80        | 242      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_03Y   | 9.4196       | 0.75        | 243      |
| USD_QIS_3M_FUT_30YxUSD_QIS_3M_FUT_02Y   | 16.3295      | 0.65        | 244      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_20Y   | 1.1474       | 0.90        | 245      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_15Y   | 1.3730       | 0.90        | 246      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_10Y   | 1.8815       | 0.90        | 247      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_09Y   | 2.0745       | 0.90        | 248      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_08Y   | 2.3269       | 0.90        | 249      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_07Y   | 2.6650       | 0.90        | 250      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_06Y   | 3.1725       | 0.90        | 251      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_05Y   | 3.9508       | 0.85        | 252      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_04Y   | 5.4064       | 0.80        | 253      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_03Y   | 8.4871       | 0.75        | 254      |
| USD_QIS_3M_FUT_25YxUSD_QIS_3M_FUT_02Y   | 14.7130      | 0.65        | 255      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_15Y   | 1.1966       | 0.90        | 256      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_10Y   | 1.6398       | 0.90        | 257      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_09Y   | 1.8079       | 0.90        | 258      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_08Y   | 2.0279       | 0.90        | 259      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_07Y   | 2.3226       | 0.90        | 260      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_06Y   | 2.7650       | 0.90        | 261      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_05Y   | 3.4432       | 0.85        | 262      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_04Y   | 4.7118       | 0.80        | 263      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_03Y   | 7.3967       | 0.75        | 264      |
| USD_QIS_3M_FUT_20YxUSD_QIS_3M_FUT_02Y   | 12.8228      | 0.65        | 265      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_10Y   | 1.3704       | 0.90        | 266      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_09Y   | 1.5109       | 0.90        | 267      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_08Y   | 1.6947       | 0.90        | 268      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_07Y   | 1.9410       | 0.90        | 269      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_06Y   | 2.3107       | 0.90        | 270      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_05Y   | 2.8775       | 0.90        | 271      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_04Y   | 3.9377       | 0.85        | 272      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_03Y   | 6.1814       | 0.75        | 273      |
| USD_QIS_3M_FUT_15YxUSD_QIS_3M_FUT_02Y   | 10.7160      | 0.65        | 274      |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_09Y   | 1.1026       | 0.90        | 275      |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_08Y   | 1.2367       | 0.90        | 276      |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_07Y   | 1.4164       | 0.90        | 277      |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_06Y   | 1.6862       | 0.90        | 278      |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_05Y   | 2.0998       | 0.90        | 279      |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_04Y   | 2.8734       | 0.90        | 280      |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_03Y   | 4.5108       | 0.80        | 281      |
| USD_QIS_3M_FUT_10YxUSD_QIS_3M_FUT_02Y   | 7.8198       | 0.75        | 282      |
| USD_QIS_3M_FUT_09YxUSD_QIS_3M_FUT_08Y   | 1.1217       | 0.90        | 283      |
| USD_QIS_3M_FUT_09YxUSD_QIS_3M_FUT_07Y   | 1.2847       | 0.90        | 284      |
| USD_QIS_3M_FUT_09YxUSD_QIS_3M_FUT_06Y   | 1.5293       | 0.90        | 285      |
| USD_QIS_3M_FUT_09YxUSD_QIS_3M_FUT_05Y   | 1.9045       | 0.90        | 286      |
| USD_QIS_3M_FUT_09YxUSD_QIS_3M_FUT_04Y   | 2.6062       | 0.90        | 287      |
| USD_QIS_3M_FUT_09YxUSD_QIS_3M_FUT_03Y   | 4.0912       | 0.85        | 288      |
| USD_QIS_3M_FUT_09YxUSD_QIS_3M_FUT_02Y   | 7.0925       | 0.75        | 289      |
| USD_QIS_3M_FUT_08YxUSD_QIS_3M_FUT_07Y   | 1.1453       | 0.90        | 290      |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_QIS_3M_FUT_08YxUSD_QIS_3M_FUT_06Y  | 1.3634       | 0.90        | 291      |
| USD_QIS_3M_FUT_08YxUSD_QIS_3M_FUT_05Y  | 1.6979       | 0.90        | 292      |
| USD_QIS_3M_FUT_08YxUSD_QIS_3M_FUT_04Y  | 2.3235       | 0.90        | 293      |
| USD_QIS_3M_FUT_08YxUSD_QIS_3M_FUT_03Y  | 3.6474       | 0.85        | 294      |
| USD_QIS_3M_FUT_08YxUSD_QIS_3M_FUT_02Y  | 6.3231       | 0.75        | 295      |
| USD_QIS_3M_FUT_07YxUSD_QIS_3M_FUT_06Y  | 1.1904       | 0.90        | 296      |
| USD_QIS_3M_FUT_07YxUSD_QIS_3M_FUT_05Y  | 1.4825       | 0.90        | 297      |
| USD_QIS_3M_FUT_07YxUSD_QIS_3M_FUT_04Y  | 2.0287       | 0.90        | 298      |
| USD_QIS_3M_FUT_07YxUSD_QIS_3M_FUT_03Y  | 3.1846       | 0.90        | 299      |
| USD_QIS_3M_FUT_07YxUSD_QIS_3M_FUT_02Y  | 5.5208       | 0.80        | 300      |
| USD_QIS_3M_FUT_06YxUSD_QIS_3M_FUT_05Y  | 1.2453       | 0.90        | 301      |
| USD_QIS_3M_FUT_06YxUSD_QIS_3M_FUT_04Y  | 1.7041       | 0.90        | 302      |
| USD_QIS_3M_FUT_06YxUSD_QIS_3M_FUT_03Y  | 2.6752       | 0.90        | 303      |
| USD_QIS_3M_FUT_06YxUSD_QIS_3M_FUT_02Y  | 4.6376       | 0.80        | 304      |
| USD_QIS_3M_FUT_05YxUSD_QIS_3M_FUT_04Y  | 1.3684       | 0.90        | 305      |
| USD_QIS_3M_FUT_05YxUSD_QIS_3M_FUT_03Y  | 2.1482       | 0.90        | 306      |
| USD_QIS_3M_FUT_05YxUSD_QIS_3M_FUT_02Y  | 3.7240       | 0.85        | 307      |
| USD_QIS_3M_FUT_04YxUSD_QIS_3M_FUT_03Y  | 1.5698       | 0.90        | 308      |
| USD_QIS_3M_FUT_04YxUSD_QIS_3M_FUT_02Y  | 2.7214       | 0.90        | 309      |
| USD_QIS_3M_FUT_03YxUSD_QIS_3M_FUT_02Y  | 1.7336       | 0.90        | 310      |
| USD_IRS_3M_FUT_30YxUSD_FRA_3M_FUT_24M  | 64.6615      | 0.55        | 311      |
| USD_IRS_3M_FUT_30YxUSD_FRA_3M_FUT_18M  | 80.8682      | 0.60        | 312      |
| USD_IRS_3M_FUT_30YxUSD_FRA_3M_FUT_12M  | 116.0720     | 0.45        | 313      |
| USD_IRS_3M_FUT_30YxUSD_FRA_3M_FUT_06M  | 161.7634     | 0.00        | 314      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_30Y  | 1.2076       | 0.85        | 315      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_25Y  | 1.3505       | 0.85        | 316      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_20Y  | 1.5635       | 0.85        | 317      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_15Y  | 1.8978       | 0.85        | 318      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_10Y  | 2.5961       | 0.80        | 319      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_09Y  | 2.8524       | 0.80        | 320      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_08Y  | 3.1850       | 0.80        | 321      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_07Y  | 3.6455       | 0.75        | 322      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_06Y  | 4.3485       | 0.75        | 323      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_05Y  | 5.4008       | 0.70        | 324      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_04Y  | 7.3010       | 0.65        | 325      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_03Y  | 11.5413      | 0.55        | 326      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_02Y  | 24.6778      | 0.40        | 327      |
| USD_IRS_3M_FUT_30YxUSD_IRS_1M_FUT_01Y  | 84.2974      | 0.00        | 328      |
| USD_IRS_3M_FUT_30YxUSD_FRA_1M_FUT_24M  | 262.3473     | 0.55        | 329      |
| USD_IRS_3M_FUT_30YxUSD_FRA_1M_FUT_18M  | 304.4348     | 0.50        | 330      |
| USD_IRS_3M_FUT_30YxUSD_FRA_1M_FUT_12M  | 290.0607     | 0.00        | 331      |
| USD_IRS_3M_FUT_30YxUSD_FRA_1M_FUT_06M  | 779.5419     | 0.00        | 332      |
| USD_IRS_3M_FUT_30YxUSD_OIS_OIS_FUT_02Y | 26.5114      | 0.50        | 333      |
| USD_IRS_3M_FUT_30YxUSD_OIS_OIS_FUT_12M | 132.2292     | 0.00        | 334      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_30Y  | 0.9457       | 0.45        | 335      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_25Y  | 1.0496       | 0.50        | 336      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_20Y  | 1.2044       | 0.50        | 337      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_15Y  | 1.4412       | 0.50        | 338      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_10Y  | 1.9749       | 0.55        | 339      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_09Y  | 2.1775       | 0.55        | 340      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_08Y  | 2.4424       | 0.60        | 341      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_07Y  | 2.7973       | 0.60        | 342      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_06Y  | 3.3301       | 0.60        | 343      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_05Y  | 4.1470       | 0.60        | 344      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_04Y  | 5.6748       | 0.60        | 345      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_03Y  | 8.9085       | 0.55        | 346      |
| USD_IRS_3M_FUT_30YxUSD_QIS_3M_FUT_02Y  | 15.4435      | 0.50        | 347      |
| USD_IRS_3M_FUT_25YxUSD_FRA_3M_FUT_24M  | 58.3895      | 0.55        | 348      |
| USD_IRS_3M_FUT_25YxUSD_FRA_3M_FUT_18M  | 73.0242      | 0.60        | 349      |
| USD_IRS_3M_FUT_25YxUSD_FRA_3M_FUT_12M  | 104.8134     | 0.45        | 350      |



| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_3M_FUT_25YxUSD_FRA_3M_FUT_06M  | 146.0728     | 0.00        | 351      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_30Y  | 1.0905       | 0.85        | 352      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_25Y  | 1.2195       | 0.85        | 353      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_20Y  | 1.4118       | 0.85        | 354      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_15Y  | 1.7137       | 0.85        | 355      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_10Y  | 2.3443       | 0.85        | 356      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_09Y  | 2.5757       | 0.80        | 357      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_08Y  | 2.8761       | 0.80        | 358      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_07Y  | 3.2919       | 0.75        | 359      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_06Y  | 3.9267       | 0.75        | 360      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_05Y  | 4.8770       | 0.70        | 361      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_04Y  | 6.5928       | 0.65        | 362      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_03Y  | 10.4219      | 0.55        | 363      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_02Y  | 22.2841      | 0.45        | 364      |
| USD_IRS_3M_FUT_25YxUSD_IRS_1M_FUT_01Y  | 76.1209      | 0.00        | 365      |
| USD_IRS_3M_FUT_25YxUSD_FRA_1M_FUT_24M  | 236.9004     | 0.60        | 366      |
| USD_IRS_3M_FUT_25YxUSD_FRA_1M_FUT_18M  | 274.9055     | 0.50        | 367      |
| USD_IRS_3M_FUT_25YxUSD_FRA_1M_FUT_12M  | 261.9257     | 0.00        | 368      |
| USD_IRS_3M_FUT_25YxUSD_FRA_1M_FUT_06M  | 703.9287     | 0.00        | 369      |
| USD_IRS_3M_FUT_25YxUSD_OIS_OIS_FUT_02Y | 23.9398      | 0.55        | 370      |
| USD_IRS_3M_FUT_25YxUSD_OIS_OIS_FUT_12M | 119.4034     | 0.00        | 371      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_30Y  | 0.8540       | 0.45        | 372      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_25Y  | 0.9478       | 0.50        | 373      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_20Y  | 1.0876       | 0.50        | 374      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_15Y  | 1.3014       | 0.50        | 375      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_10Y  | 1.7834       | 0.55        | 376      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_09Y  | 1.9662       | 0.55        | 377      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_08Y  | 2.2055       | 0.60        | 378      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_07Y  | 2.5260       | 0.60        | 379      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_06Y  | 3.0071       | 0.60        | 380      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_05Y  | 3.7447       | 0.60        | 381      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_04Y  | 5.1244       | 0.60        | 382      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_03Y  | 8.0444       | 0.60        | 383      |
| USD_IRS_3M_FUT_25YxUSD_QIS_3M_FUT_02Y  | 13.9455      | 0.50        | 384      |
| USD_IRS_3M_FUT_20YxUSD_FRA_3M_FUT_24M  | 51.0253      | 0.60        | 385      |
| USD_IRS_3M_FUT_20YxUSD_FRA_3M_FUT_18M  | 63.8142      | 0.60        | 386      |
| USD_IRS_3M_FUT_20YxUSD_FRA_3M_FUT_12M  | 91.5940      | 0.45        | 387      |
| USD_IRS_3M_FUT_20YxUSD_FRA_3M_FUT_06M  | 127.6497     | 0.00        | 388      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_30Y  | 0.9530       | 0.85        | 389      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_25Y  | 1.0657       | 0.85        | 390      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_20Y  | 1.2338       | 0.85        | 391      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_15Y  | 1.4976       | 0.85        | 392      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_10Y  | 2.0486       | 0.85        | 393      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_09Y  | 2.2508       | 0.80        | 394      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_08Y  | 2.5133       | 0.80        | 395      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_07Y  | 2.8767       | 0.80        | 396      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_06Y  | 3.4315       | 0.75        | 397      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_05Y  | 4.2619       | 0.70        | 398      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_04Y  | 5.7613       | 0.65        | 399      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_03Y  | 9.1074       | 0.60        | 400      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_02Y  | 19.4736      | 0.45        | 401      |
| USD_IRS_3M_FUT_20YxUSD_IRS_1M_FUT_01Y  | 66.5203      | 0.00        | 402      |
| USD_IRS_3M_FUT_20YxUSD_FRA_1M_FUT_24M  | 207.0219     | 0.60        | 403      |
| USD_IRS_3M_FUT_20YxUSD_FRA_1M_FUT_18M  | 240.2337     | 0.55        | 404      |
| USD_IRS_3M_FUT_20YxUSD_FRA_1M_FUT_12M  | 228.8909     | 0.00        | 405      |
| USD_IRS_3M_FUT_20YxUSD_FRA_1M_FUT_06M  | 615.1473     | 0.00        | 406      |
| USD_IRS_3M_FUT_20YxUSD_OIS_OIS_FUT_02Y | 20.9205      | 0.55        | 407      |
| USD_IRS_3M_FUT_20YxUSD_OIS_OIS_FUT_12M | 104.3439     | 0.00        | 408      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_30Y  | 0.7463       | 0.45        | 409      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_25Y  | 0.8283       | 0.45        | 410      |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_20Y  | 0.9504       | 0.50        | 411      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_15Y  | 1.1372       | 0.50        | 412      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_10Y  | 1.5584       | 0.55        | 413      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_09Y  | 1.7183       | 0.60        | 414      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_08Y  | 1.9273       | 0.60        | 415      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_07Y  | 2.2074       | 0.60        | 416      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_06Y  | 2.6278       | 0.60        | 417      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_05Y  | 3.2724       | 0.65        | 418      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_04Y  | 4.4781       | 0.65        | 419      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_03Y  | 7.0298       | 0.60        | 420      |
| USD_IRS_3M_FUT_20YxUSD_QIS_3M_FUT_02Y  | 12.1867      | 0.55        | 421      |
| USD_IRS_3M_FUT_15YxUSD_FRA_3M_FUT_24M  | 42.9176      | 0.60        | 422      |
| USD_IRS_3M_FUT_15YxUSD_FRA_3M_FUT_18M  | 53.6744      | 0.65        | 423      |
| USD_IRS_3M_FUT_15YxUSD_FRA_3M_FUT_12M  | 77.0401      | 0.50        | 424      |
| USD_IRS_3M_FUT_15YxUSD_FRA_3M_FUT_06M  | 107.3666     | 0.00        | 425      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_30Y  | 0.8015       | 0.80        | 426      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_25Y  | 0.8964       | 0.80        | 427      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_20Y  | 1.0377       | 0.85        | 428      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_15Y  | 1.2596       | 0.85        | 429      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_10Y  | 1.7231       | 0.85        | 430      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_09Y  | 1.8932       | 0.85        | 431      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_08Y  | 2.1140       | 0.80        | 432      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_07Y  | 2.4196       | 0.80        | 433      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_06Y  | 2.8862       | 0.80        | 434      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_05Y  | 3.5847       | 0.75        | 435      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_04Y  | 4.8459       | 0.70        | 436      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_03Y  | 7.6603       | 0.60        | 437      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_02Y  | 16.3793      | 0.50        | 438      |
| USD_IRS_3M_FUT_15YxUSD_IRS_1M_FUT_01Y  | 55.9504      | 0.00        | 439      |
| USD_IRS_3M_FUT_15YxUSD_FRA_1M_FUT_24M  | 174.1268     | 0.65        | 440      |
| USD_IRS_3M_FUT_15YxUSD_FRA_1M_FUT_18M  | 202.0614     | 0.55        | 441      |
| USD_IRS_3M_FUT_15YxUSD_FRA_1M_FUT_12M  | 192.5210     | 0.00        | 442      |
| USD_IRS_3M_FUT_15YxUSD_FRA_1M_FUT_06M  | 517.4026     | 0.00        | 443      |
| USD_IRS_3M_FUT_15YxUSD_OIS_OIS_FUT_02Y | 17.5963      | 0.55        | 444      |
| USD_IRS_3M_FUT_15YxUSD_OIS_OIS_FUT_12M | 87.7640      | 0.00        | 445      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_30Y  | 0.6277       | 0.45        | 446      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_25Y  | 0.6967       | 0.45        | 447      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_20Y  | 0.7994       | 0.50        | 448      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_15Y  | 0.9565       | 0.50        | 449      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_10Y  | 1.3108       | 0.55        | 450      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_09Y  | 1.4452       | 0.60        | 451      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_08Y  | 1.6211       | 0.60        | 452      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_07Y  | 1.8567       | 0.60        | 453      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_06Y  | 2.2102       | 0.65        | 454      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_05Y  | 2.7525       | 0.65        | 455      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_04Y  | 3.7665       | 0.65        | 456      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_03Y  | 5.9128       | 0.60        | 457      |
| USD_IRS_3M_FUT_15YxUSD_QIS_3M_FUT_02Y  | 10.2503      | 0.55        | 458      |
| USD_IRS_3M_FUT_10YxUSD_FRA_3M_FUT_24M  | 31.7169      | 0.65        | 459      |
| USD_IRS_3M_FUT_10YxUSD_FRA_3M_FUT_18M  | 39.6664      | 0.75        | 460      |
| USD_IRS_3M_FUT_10YxUSD_FRA_3M_FUT_12M  | 56.9342      | 0.55        | 461      |
| USD_IRS_3M_FUT_10YxUSD_FRA_3M_FUT_06M  | 79.3461      | 0.00        | 462      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_30Y  | 0.5924       | 0.80        | 463      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_25Y  | 0.6624       | 0.80        | 464      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_20Y  | 0.7669       | 0.80        | 465      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_15Y  | 0.9309       | 0.85        | 466      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_10Y  | 1.2734       | 0.85        | 467      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_09Y  | 1.3991       | 0.85        | 468      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_08Y  | 1.5623       | 0.85        | 469      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_07Y  | 1.7881       | 0.80        | 470      |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_06Y  | 2.1330       | 0.80        | 471      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_05Y  | 2.6491       | 0.80        | 472      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_04Y  | 3.5812       | 0.75        | 473      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_03Y  | 5.6611       | 0.65        | 474      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_02Y  | 12.1046      | 0.55        | 475      |
| USD_IRS_3M_FUT_10YxUSD_IRS_1M_FUT_01Y  | 41.3485      | 0.00        | 476      |
| USD_IRS_3M_FUT_10YxUSD_FRA_1M_FUT_24M  | 128.6833     | 0.70        | 477      |
| USD_IRS_3M_FUT_10YxUSD_FRA_1M_FUT_18M  | 149.3275     | 0.60        | 478      |
| USD_IRS_3M_FUT_10YxUSD_FRA_1M_FUT_12M  | 142.2769     | 0.00        | 479      |
| USD_IRS_3M_FUT_10YxUSD_FRA_1M_FUT_06M  | 382.3710     | 0.00        | 480      |
| USD_IRS_3M_FUT_10YxUSD_OIS_OIS_FUT_02Y | 13.0040      | 0.60        | 481      |
| USD_IRS_3M_FUT_10YxUSD_OIS_OIS_FUT_12M | 64.8594      | 0.40        | 482      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_30Y  | 0.4639       | 0.45        | 483      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_25Y  | 0.5149       | 0.45        | 484      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_20Y  | 0.5908       | 0.45        | 485      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_15Y  | 0.7069       | 0.50        | 486      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_10Y  | 0.9687       | 0.55        | 487      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_09Y  | 1.0681       | 0.60        | 488      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_08Y  | 1.1980       | 0.60        | 489      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_07Y  | 1.3721       | 0.60        | 490      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_06Y  | 1.6334       | 0.65        | 491      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_05Y  | 2.0341       | 0.65        | 492      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_04Y  | 2.7835       | 0.70        | 493      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_03Y  | 4.3697       | 0.65        | 494      |
| USD_IRS_3M_FUT_10YxUSD_QIS_3M_FUT_02Y  | 7.5752       | 0.60        | 495      |
| USD_IRS_3M_FUT_09YxUSD_FRA_3M_FUT_24M  | 28.8864      | 0.65        | 496      |
| USD_IRS_3M_FUT_09YxUSD_FRA_3M_FUT_18M  | 36.1264      | 0.75        | 497      |
| USD_IRS_3M_FUT_09YxUSD_FRA_3M_FUT_12M  | 51.8531      | 0.60        | 498      |
| USD_IRS_3M_FUT_09YxUSD_FRA_3M_FUT_06M  | 72.2649      | 0.00        | 499      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_30Y  | 0.5395       | 0.75        | 500      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_25Y  | 0.6033       | 0.80        | 501      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_20Y  | 0.6985       | 0.80        | 502      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_15Y  | 0.8478       | 0.80        | 503      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_10Y  | 1.1598       | 0.85        | 504      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_09Y  | 1.2742       | 0.85        | 505      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_08Y  | 1.4228       | 0.85        | 506      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_07Y  | 1.6286       | 0.80        | 507      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_06Y  | 1.9426       | 0.80        | 508      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_05Y  | 2.4127       | 0.80        | 509      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_04Y  | 3.2616       | 0.75        | 510      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_03Y  | 5.1559       | 0.70        | 511      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_02Y  | 11.0244      | 0.55        | 512      |
| USD_IRS_3M_FUT_09YxUSD_IRS_1M_FUT_01Y  | 37.6584      | 0.00        | 513      |
| USD_IRS_3M_FUT_09YxUSD_FRA_1M_FUT_24M  | 117.1989     | 0.70        | 514      |
| USD_IRS_3M_FUT_09YxUSD_FRA_1M_FUT_18M  | 136.0008     | 0.65        | 515      |
| USD_IRS_3M_FUT_09YxUSD_FRA_1M_FUT_12M  | 129.5794     | 0.00        | 516      |
| USD_IRS_3M_FUT_09YxUSD_FRA_1M_FUT_06M  | 348.2463     | 0.00        | 517      |
| USD_IRS_3M_FUT_09YxUSD_OIS_OIS_FUT_02Y | 11.8435      | 0.60        | 518      |
| USD_IRS_3M_FUT_09YxUSD_OIS_OIS_FUT_12M | 59.0710      | 0.40        | 519      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_30Y  | 0.4225       | 0.40        | 520      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_25Y  | 0.4689       | 0.45        | 521      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_20Y  | 0.5380       | 0.45        | 522      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_15Y  | 0.6438       | 0.50        | 523      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_10Y  | 0.8823       | 0.55        | 524      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_09Y  | 0.9727       | 0.60        | 525      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_08Y  | 1.0911       | 0.60        | 526      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_07Y  | 1.2497       | 0.60        | 527      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_06Y  | 1.4876       | 0.65        | 528      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_05Y  | 1.8526       | 0.70        | 529      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_04Y  | 2.5351       | 0.70        | 530      |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_03Y  | 3.9797       | 0.70        | 531      |
| USD_IRS_3M_FUT_09YxUSD_QIS_3M_FUT_02Y  | 6.8991       | 0.65        | 532      |
| USD_IRS_3M_FUT_08YxUSD_FRA_3M_FUT_24M  | 25.8302      | 0.70        | 533      |
| USD_IRS_3M_FUT_08YxUSD_FRA_3M_FUT_18M  | 32.3043      | 0.75        | 534      |
| USD_IRS_3M_FUT_08YxUSD_FRA_3M_FUT_12M  | 46.3671      | 0.60        | 535      |
| USD_IRS_3M_FUT_08YxUSD_FRA_3M_FUT_06M  | 64.6193      | 0.00        | 536      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_30Y  | 0.4824       | 0.75        | 537      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_25Y  | 0.5395       | 0.75        | 538      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_20Y  | 0.6246       | 0.80        | 539      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_15Y  | 0.7581       | 0.80        | 540      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_10Y  | 1.0371       | 0.85        | 541      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_09Y  | 1.1394       | 0.85        | 542      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_08Y  | 1.2723       | 0.85        | 543      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_07Y  | 1.4563       | 0.85        | 544      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_06Y  | 1.7371       | 0.85        | 545      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_05Y  | 2.1575       | 0.80        | 546      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_04Y  | 2.9165       | 0.80        | 547      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_03Y  | 4.6104       | 0.70        | 548      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_02Y  | 9.8580       | 0.60        | 549      |
| USD_IRS_3M_FUT_08YxUSD_IRS_1M_FUT_01Y  | 33.6741      | 0.00        | 550      |
| USD_IRS_3M_FUT_08YxUSD_FRA_1M_FUT_24M  | 104.7994     | 0.75        | 551      |
| USD_IRS_3M_FUT_08YxUSD_FRA_1M_FUT_18M  | 121.6120     | 0.65        | 552      |
| USD_IRS_3M_FUT_08YxUSD_FRA_1M_FUT_12M  | 115.8700     | 0.00        | 553      |
| USD_IRS_3M_FUT_08YxUSD_FRA_1M_FUT_06M  | 311.4021     | 0.00        | 554      |
| USD_IRS_3M_FUT_08YxUSD_OIS_OIS_FUT_02Y | 10.5904      | 0.65        | 555      |
| USD_IRS_3M_FUT_08YxUSD_OIS_OIS_FUT_12M | 52.8213      | 0.45        | 556      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_30Y  | 0.3778       | 0.40        | 557      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_25Y  | 0.4193       | 0.40        | 558      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_20Y  | 0.4811       | 0.45        | 559      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_15Y  | 0.5757       | 0.45        | 560      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_10Y  | 0.7889       | 0.55        | 561      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_09Y  | 0.8698       | 0.55        | 562      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_08Y  | 0.9757       | 0.60        | 563      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_07Y  | 1.1174       | 0.60        | 564      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_06Y  | 1.3303       | 0.65        | 565      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_05Y  | 1.6566       | 0.70        | 566      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_04Y  | 2.2669       | 0.70        | 567      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_03Y  | 3.5587       | 0.70        | 568      |
| USD_IRS_3M_FUT_08YxUSD_QIS_3M_FUT_02Y  | 6.1692       | 0.65        | 569      |
| USD_IRS_3M_FUT_07YxUSD_FRA_3M_FUT_24M  | 22.6457      | 0.70        | 570      |
| USD_IRS_3M_FUT_07YxUSD_FRA_3M_FUT_18M  | 28.3216      | 0.80        | 571      |
| USD_IRS_3M_FUT_07YxUSD_FRA_3M_FUT_12M  | 40.6507      | 0.65        | 572      |
| USD_IRS_3M_FUT_07YxUSD_FRA_3M_FUT_06M  | 56.6527      | 0.00        | 573      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_30Y  | 0.4229       | 0.70        | 574      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_25Y  | 0.4730       | 0.75        | 575      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_20Y  | 0.5476       | 0.75        | 576      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_15Y  | 0.6646       | 0.80        | 577      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_10Y  | 0.9092       | 0.80        | 578      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_09Y  | 0.9990       | 0.85        | 579      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_08Y  | 1.1155       | 0.85        | 580      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_07Y  | 1.2767       | 0.85        | 581      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_06Y  | 1.5229       | 0.85        | 582      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_05Y  | 1.8915       | 0.80        | 583      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_04Y  | 2.5569       | 0.80        | 584      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_03Y  | 4.0420       | 0.75        | 585      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_02Y  | 8.6426       | 0.60        | 586      |
| USD_IRS_3M_FUT_07YxUSD_IRS_1M_FUT_01Y  | 29.5226      | 0.00        | 587      |
| USD_IRS_3M_FUT_07YxUSD_FRA_1M_FUT_24M  | 91.8791      | 0.75        | 588      |
| USD_IRS_3M_FUT_07YxUSD_FRA_1M_FUT_18M  | 106.6190     | 0.70        | 589      |
| USD_IRS_3M_FUT_07YxUSD_FRA_1M_FUT_12M  | 101.5849     | 0.00        | 590      |



| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_3M_FUT_07YxUSD_FRA_1M_FUT_06M  | 273.0108     | 0.00        | 591      |
| USD_IRS_3M_FUT_07YxUSD_OIS_OIS_FUT_02Y | 9.2848       | 0.65        | 592      |
| USD_IRS_3M_FUT_07YxUSD_OIS_OIS_FUT_12M | 46.3093      | 0.45        | 593      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_30Y  | 0.3312       | 0.40        | 594      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_25Y  | 0.3676       | 0.40        | 595      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_20Y  | 0.4218       | 0.40        | 596      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_15Y  | 0.5047       | 0.45        | 597      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_10Y  | 0.6917       | 0.55        | 598      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_09Y  | 0.7626       | 0.55        | 599      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_08Y  | 0.8554       | 0.60        | 600      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_07Y  | 0.9797       | 0.60        | 601      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_06Y  | 1.1663       | 0.65        | 602      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_05Y  | 1.4524       | 0.70        | 603      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_04Y  | 1.9874       | 0.75        | 604      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_03Y  | 3.1199       | 0.70        | 605      |
| USD_IRS_3M_FUT_07YxUSD_QIS_3M_FUT_02Y  | 5.4086       | 0.70        | 606      |
| USD_IRS_3M_FUT_06YxUSD_FRA_3M_FUT_24M  | 19.1558      | 0.75        | 607      |
| USD_IRS_3M_FUT_06YxUSD_FRA_3M_FUT_18M  | 23.9570      | 0.85        | 608      |
| USD_IRS_3M_FUT_06YxUSD_FRA_3M_FUT_12M  | 34.3861      | 0.70        | 609      |
| USD_IRS_3M_FUT_06YxUSD_FRA_3M_FUT_06M  | 47.9221      | 0.00        | 610      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_30Y  | 0.3578       | 0.70        | 611      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_25Y  | 0.4001       | 0.70        | 612      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_20Y  | 0.4632       | 0.70        | 613      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_15Y  | 0.5622       | 0.75        | 614      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_10Y  | 0.7691       | 0.80        | 615      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_09Y  | 0.8450       | 0.80        | 616      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_08Y  | 0.9436       | 0.80        | 617      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_07Y  | 1.0800       | 0.80        | 618      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_06Y  | 1.2882       | 0.85        | 619      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_05Y  | 1.6000       | 0.80        | 620      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_04Y  | 2.1629       | 0.80        | 621      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_03Y  | 3.4191       | 0.75        | 622      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_02Y  | 7.3108       | 0.65        | 623      |
| USD_IRS_3M_FUT_06YxUSD_IRS_1M_FUT_01Y  | 24.9730      | 0.00        | 624      |
| USD_IRS_3M_FUT_06YxUSD_FRA_1M_FUT_24M  | 77.7199      | 0.75        | 625      |
| USD_IRS_3M_FUT_06YxUSD_FRA_1M_FUT_18M  | 90.1882      | 0.70        | 626      |
| USD_IRS_3M_FUT_06YxUSD_FRA_1M_FUT_12M  | 85.9299      | 0.00        | 627      |
| USD_IRS_3M_FUT_06YxUSD_FRA_1M_FUT_06M  | 230.9378     | 0.00        | 628      |
| USD_IRS_3M_FUT_06YxUSD_OIS_OIS_FUT_02Y | 7.8539       | 0.70        | 629      |
| USD_IRS_3M_FUT_06YxUSD_OIS_OIS_FUT_12M | 39.1726      | 0.45        | 630      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_30Y  | 0.2802       | 0.00        | 631      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_25Y  | 0.3110       | 0.40        | 632      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_20Y  | 0.3568       | 0.40        | 633      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_15Y  | 0.4269       | 0.45        | 634      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_10Y  | 0.5851       | 0.50        | 635      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_09Y  | 0.6451       | 0.55        | 636      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_08Y  | 0.7236       | 0.60        | 637      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_07Y  | 0.8287       | 0.60        | 638      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_06Y  | 0.9865       | 0.65        | 639      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_05Y  | 1.2285       | 0.70        | 640      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_04Y  | 1.6812       | 0.75        | 641      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_03Y  | 2.6391       | 0.75        | 642      |
| USD_IRS_3M_FUT_06YxUSD_QIS_3M_FUT_02Y  | 4.5751       | 0.70        | 643      |
| USD_IRS_3M_FUT_05YxUSD_FRA_3M_FUT_24M  | 15.5118      | 0.75        | 644      |
| USD_IRS_3M_FUT_05YxUSD_FRA_3M_FUT_18M  | 19.3996      | 0.85        | 645      |
| USD_IRS_3M_FUT_05YxUSD_FRA_3M_FUT_12M  | 27.8447      | 0.70        | 646      |
| USD_IRS_3M_FUT_05YxUSD_FRA_3M_FUT_06M  | 38.8057      | 0.00        | 647      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_30Y  | 0.2897       | 0.60        | 648      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_25Y  | 0.3240       | 0.65        | 649      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_20Y  | 0.3751       | 0.65        | 650      |



| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_15Y  | 0.4553       | 0.70        | 651      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_10Y  | 0.6228       | 0.75        | 652      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_09Y  | 0.6843       | 0.80        | 653      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_08Y  | 0.7641       | 0.80        | 654      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_07Y  | 0.8745       | 0.80        | 655      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_06Y  | 1.0432       | 0.80        | 656      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_05Y  | 1.2956       | 0.85        | 657      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_04Y  | 1.7514       | 0.80        | 658      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_03Y  | 2.7687       | 0.80        | 659      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_02Y  | 5.9200       | 0.70        | 660      |
| USD_IRS_3M_FUT_05YxUSD_IRS_1M_FUT_01Y  | 20.2223      | 0.00        | 661      |
| USD_IRS_3M_FUT_05YxUSD_FRA_1M_FUT_24M  | 62.9349      | 0.80        | 662      |
| USD_IRS_3M_FUT_05YxUSD_FRA_1M_FUT_18M  | 73.0314      | 0.70        | 663      |
| USD_IRS_3M_FUT_05YxUSD_FRA_1M_FUT_12M  | 69.5831      | 0.00        | 664      |
| USD_IRS_3M_FUT_05YxUSD_FRA_1M_FUT_06M  | 187.0056     | 0.00        | 665      |
| USD_IRS_3M_FUT_05YxUSD_OIS_OIS_FUT_02Y | 6.3599       | 0.70        | 666      |
| USD_IRS_3M_FUT_05YxUSD_OIS_OIS_FUT_12M | 31.7207      | 0.50        | 667      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_30Y  | 0.2269       | 0.00        | 668      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_25Y  | 0.2518       | 0.00        | 669      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_20Y  | 0.2889       | 0.00        | 670      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_15Y  | 0.3457       | 0.40        | 671      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_10Y  | 0.4738       | 0.50        | 672      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_09Y  | 0.5224       | 0.50        | 673      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_08Y  | 0.5859       | 0.55        | 674      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_07Y  | 0.6711       | 0.60        | 675      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_06Y  | 0.7989       | 0.65        | 676      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_05Y  | 0.9948       | 0.70        | 677      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_04Y  | 1.3613       | 0.75        | 678      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_03Y  | 2.1371       | 0.75        | 679      |
| USD_IRS_3M_FUT_05YxUSD_QIS_3M_FUT_02Y  | 3.7048       | 0.75        | 680      |
| USD_IRS_3M_FUT_04YxUSD_FRA_3M_FUT_24M  | 11.4715      | 0.80        | 681      |
| USD_IRS_3M_FUT_04YxUSD_FRA_3M_FUT_18M  | 14.3467      | 0.90        | 682      |
| USD_IRS_3M_FUT_04YxUSD_FRA_3M_FUT_12M  | 20.5922      | 0.75        | 683      |
| USD_IRS_3M_FUT_04YxUSD_FRA_3M_FUT_06M  | 28.6982      | 0.40        | 684      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_30Y  | 0.2142       | 0.55        | 685      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_25Y  | 0.2396       | 0.60        | 686      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_20Y  | 0.2774       | 0.60        | 687      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_15Y  | 0.3367       | 0.65        | 688      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_10Y  | 0.4606       | 0.70        | 689      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_09Y  | 0.5060       | 0.75        | 690      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_08Y  | 0.5650       | 0.75        | 691      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_07Y  | 0.6467       | 0.75        | 692      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_06Y  | 0.7715       | 0.80        | 693      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_05Y  | 0.9582       | 0.80        | 694      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_04Y  | 1.2953       | 0.80        | 695      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_03Y  | 2.0475       | 0.80        | 696      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_02Y  | 4.3781       | 0.70        | 697      |
| USD_IRS_3M_FUT_04YxUSD_IRS_1M_FUT_01Y  | 14.9551      | 0.00        | 698      |
| USD_IRS_3M_FUT_04YxUSD_FRA_1M_FUT_24M  | 46.5427      | 0.80        | 699      |
| USD_IRS_3M_FUT_04YxUSD_FRA_1M_FUT_18M  | 54.0094      | 0.75        | 700      |
| USD_IRS_3M_FUT_04YxUSD_FRA_1M_FUT_12M  | 51.4593      | 0.00        | 701      |
| USD_IRS_3M_FUT_04YxUSD_FRA_1M_FUT_06M  | 138.2976     | 0.00        | 702      |
| USD_IRS_3M_FUT_04YxUSD_OIS_OIS_FUT_02Y | 4.7033       | 0.70        | 703      |
| USD_IRS_3M_FUT_04YxUSD_OIS_OIS_FUT_12M | 23.4586      | 0.50        | 704      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_30Y  | 0.1678       | 0.00        | 705      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_25Y  | 0.1862       | 0.00        | 706      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_20Y  | 0.2137       | 0.00        | 707      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_15Y  | 0.2557       | 0.40        | 708      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_10Y  | 0.3504       | 0.45        | 709      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_09Y  | 0.3863       | 0.50        | 710      |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_08Y  | 0.4333       | 0.55        | 711      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_07Y  | 0.4963       | 0.55        | 712      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_06Y  | 0.5908       | 0.60        | 713      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_05Y  | 0.7357       | 0.70        | 714      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_04Y  | 1.0068       | 0.75        | 715      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_03Y  | 1.5804       | 0.75        | 716      |
| USD_IRS_3M_FUT_04YxUSD_QIS_3M_FUT_02Y  | 2.7398       | 0.75        | 717      |
| USD_IRS_3M_FUT_03YxUSD_FRA_3M_FUT_24M  | 7.3363       | 0.80        | 718      |
| USD_IRS_3M_FUT_03YxUSD_FRA_3M_FUT_18M  | 9.1750       | 0.90        | 719      |
| USD_IRS_3M_FUT_03YxUSD_FRA_3M_FUT_12M  | 13.1691      | 0.85        | 720      |
| USD_IRS_3M_FUT_03YxUSD_FRA_3M_FUT_06M  | 18.3531      | 0.50        | 721      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_30Y  | 0.1370       | 0.45        | 722      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_25Y  | 0.1532       | 0.50        | 723      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_20Y  | 0.1774       | 0.50        | 724      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_15Y  | 0.2153       | 0.55        | 725      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_10Y  | 0.2945       | 0.60        | 726      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_09Y  | 0.3236       | 0.65        | 727      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_08Y  | 0.3614       | 0.65        | 728      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_07Y  | 0.4136       | 0.70        | 729      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_06Y  | 0.4934       | 0.70        | 730      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_05Y  | 0.6128       | 0.75        | 731      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_04Y  | 0.8283       | 0.75        | 732      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_03Y  | 1.3094       | 0.80        | 733      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_02Y  | 2.7999       | 0.75        | 734      |
| USD_IRS_3M_FUT_03YxUSD_IRS_1M_FUT_01Y  | 9.5641       | 0.00        | 735      |
| USD_IRS_3M_FUT_03YxUSD_FRA_1M_FUT_24M  | 29.7650      | 0.80        | 736      |
| USD_IRS_3M_FUT_03YxUSD_FRA_1M_FUT_18M  | 34.5401      | 0.75        | 737      |
| USD_IRS_3M_FUT_03YxUSD_FRA_1M_FUT_12M  | 32.9093      | 0.00        | 738      |
| USD_IRS_3M_FUT_03YxUSD_FRA_1M_FUT_06M  | 88.4442      | 0.00        | 739      |
| USD_IRS_3M_FUT_03YxUSD_OIS_OIS_FUT_02Y | 3.0079       | 0.75        | 740      |
| USD_IRS_3M_FUT_03YxUSD_OIS_OIS_FUT_12M | 15.0023      | 0.55        | 741      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_30Y  | 0.1073       | 0.00        | 742      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_25Y  | 0.1191       | 0.00        | 743      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_20Y  | 0.1366       | 0.00        | 744      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_15Y  | 0.1635       | 0.00        | 745      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_10Y  | 0.2241       | 0.40        | 746      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_09Y  | 0.2470       | 0.45        | 747      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_08Y  | 0.2771       | 0.50        | 748      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_07Y  | 0.3174       | 0.50        | 749      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_06Y  | 0.3778       | 0.60        | 750      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_05Y  | 0.4705       | 0.65        | 751      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_04Y  | 0.6438       | 0.70        | 752      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_03Y  | 1.0107       | 0.80        | 753      |
| USD_IRS_3M_FUT_03YxUSD_QIS_3M_FUT_02Y  | 1.7522       | 0.80        | 754      |
| USD_IRS_3M_FUT_02YxUSD_FRA_3M_FUT_24M  | 4.1048       | 0.80        | 755      |
| USD_IRS_3M_FUT_02YxUSD_FRA_3M_FUT_18M  | 5.1336       | 0.90        | 756      |
| USD_IRS_3M_FUT_02YxUSD_FRA_3M_FUT_12M  | 7.3684       | 0.90        | 757      |
| USD_IRS_3M_FUT_02YxUSD_FRA_3M_FUT_06M  | 10.2690      | 0.60        | 758      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_30Y  | 0.0767       | 0.00        | 759      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_25Y  | 0.0857       | 0.00        | 760      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_20Y  | 0.0993       | 0.40        | 761      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_15Y  | 0.1205       | 0.45        | 762      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_10Y  | 0.1648       | 0.50        | 763      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_09Y  | 0.1811       | 0.50        | 764      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_08Y  | 0.2022       | 0.55        | 765      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_07Y  | 0.2314       | 0.55        | 766      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_06Y  | 0.2761       | 0.60        | 767      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_05Y  | 0.3429       | 0.65        | 768      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_04Y  | 0.4635       | 0.65        | 769      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_03Y  | 0.7327       | 0.75        | 770      |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_02Y  | 1.5666       | 0.75        | 771      |
| USD_IRS_3M_FUT_02YxUSD_IRS_1M_FUT_01Y  | 5.3513       | 0.40        | 772      |
| USD_IRS_3M_FUT_02YxUSD_FRA_1M_FUT_24M  | 16.6542      | 0.75        | 773      |
| USD_IRS_3M_FUT_02YxUSD_FRA_1M_FUT_18M  | 19.3260      | 0.70        | 774      |
| USD_IRS_3M_FUT_02YxUSD_FRA_1M_FUT_12M  | 18.4135      | 0.00        | 775      |
| USD_IRS_3M_FUT_02YxUSD_FRA_1M_FUT_06M  | 49.4865      | 0.00        | 776      |
| USD_IRS_3M_FUT_02YxUSD_OIS_OIS_FUT_02Y | 1.6830       | 0.70        | 777      |
| USD_IRS_3M_FUT_02YxUSD_OIS_OIS_FUT_12M | 8.3941       | 0.55        | 778      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_30Y  | 0.0600       | 0.00        | 779      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_25Y  | 0.0666       | 0.00        | 780      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_20Y  | 0.0765       | 0.00        | 781      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_15Y  | 0.0915       | 0.00        | 782      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_10Y  | 0.1254       | 0.00        | 783      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_09Y  | 0.1382       | 0.00        | 784      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_08Y  | 0.1550       | 0.40        | 785      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_07Y  | 0.1776       | 0.45        | 786      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_06Y  | 0.2114       | 0.50        | 787      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_05Y  | 0.2633       | 0.55        | 788      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_04Y  | 0.3602       | 0.65        | 789      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_03Y  | 0.5655       | 0.75        | 790      |
| USD_IRS_3M_FUT_02YxUSD_QIS_3M_FUT_02Y  | 0.9804       | 0.80        | 791      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_30Y  | 0.0187       | 0.40        | 792      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_25Y  | 0.0209       | 0.45        | 793      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_20Y  | 0.0242       | 0.45        | 794      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_15Y  | 0.0293       | 0.50        | 795      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_10Y  | 0.0401       | 0.55        | 796      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_09Y  | 0.0441       | 0.55        | 797      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_08Y  | 0.0493       | 0.55        | 798      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_07Y  | 0.0564       | 0.55        | 799      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_06Y  | 0.0673       | 0.60        | 800      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_05Y  | 0.0835       | 0.65        | 801      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_04Y  | 0.1129       | 0.65        | 802      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_03Y  | 0.1785       | 0.65        | 803      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_02Y  | 0.3816       | 0.65        | 804      |
| USD_FRA_3M_FUT_24MxUSD_IRS_1M_FUT_01Y  | 1.3037       | 0.00        | 805      |
| USD_FRA_3M_FUT_24MxUSD_FRA_1M_FUT_24M  | 4.0572       | 0.75        | 806      |
| USD_FRA_3M_FUT_24MxUSD_FRA_1M_FUT_18M  | 4.7081       | 0.75        | 807      |
| USD_FRA_3M_FUT_24MxUSD_FRA_1M_FUT_12M  | 4.4858       | 0.00        | 808      |
| USD_FRA_3M_FUT_24MxUSD_FRA_1M_FUT_06M  | 12.0557      | 0.00        | 809      |
| USD_FRA_3M_FUT_24MxUSD_OIS_OIS_FUT_02Y | 0.4100       | 0.60        | 810      |
| USD_FRA_3M_FUT_24MxUSD_OIS_OIS_FUT_12M | 2.0449       | 0.45        | 811      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_30Y  | 0.0146       | 0.00        | 812      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_25Y  | 0.0162       | 0.00        | 813      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_20Y  | 0.0186       | 0.00        | 814      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_15Y  | 0.0223       | 0.00        | 815      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_10Y  | 0.0305       | 0.00        | 816      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_09Y  | 0.0337       | 0.00        | 817      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_08Y  | 0.0378       | 0.40        | 818      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_07Y  | 0.0433       | 0.40        | 819      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_06Y  | 0.0515       | 0.45        | 820      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_05Y  | 0.0641       | 0.50        | 821      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_04Y  | 0.0878       | 0.60        | 822      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_03Y  | 0.1378       | 0.65        | 823      |
| USD_FRA_3M_FUT_24MxUSD_QIS_3M_FUT_02Y  | 0.2388       | 0.65        | 824      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_30Y  | 0.0149       | 0.40        | 825      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_25Y  | 0.0167       | 0.45        | 826      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_20Y  | 0.0193       | 0.45        | 827      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_15Y  | 0.0235       | 0.50        | 828      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_10Y  | 0.0321       | 0.55        | 829      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_09Y  | 0.0353       | 0.55        | 830      |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_08Y  | 0.0394       | 0.60        | 831      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_07Y  | 0.0451       | 0.60        | 832      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_06Y  | 0.0538       | 0.65        | 833      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_05Y  | 0.0668       | 0.65        | 834      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_04Y  | 0.0903       | 0.70        | 835      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_03Y  | 0.1427       | 0.75        | 836      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_02Y  | 0.3052       | 0.70        | 837      |
| USD_FRA_3M_FUT_18MxUSD_IRS_1M_FUT_01Y  | 1.0424       | 0.00        | 838      |
| USD_FRA_3M_FUT_18MxUSD_FRA_1M_FUT_24M  | 3.2441       | 0.75        | 839      |
| USD_FRA_3M_FUT_18MxUSD_FRA_1M_FUT_18M  | 3.7646       | 0.70        | 840      |
| USD_FRA_3M_FUT_18MxUSD_FRA_1M_FUT_12M  | 3.5868       | 0.00        | 841      |
| USD_FRA_3M_FUT_18MxUSD_FRA_1M_FUT_06M  | 9.6397       | 0.00        | 842      |
| USD_FRA_3M_FUT_18MxUSD_OIS_OIS_FUT_02Y | 0.3278       | 0.70        | 843      |
| USD_FRA_3M_FUT_18MxUSD_OIS_OIS_FUT_12M | 1.6351       | 0.55        | 844      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_30Y  | 0.0117       | 0.00        | 845      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_25Y  | 0.0130       | 0.00        | 846      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_20Y  | 0.0149       | 0.00        | 847      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_15Y  | 0.0178       | 0.00        | 848      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_10Y  | 0.0244       | 0.00        | 849      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_09Y  | 0.0269       | 0.40        | 850      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_08Y  | 0.0302       | 0.45        | 851      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_07Y  | 0.0346       | 0.45        | 852      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_06Y  | 0.0412       | 0.50        | 853      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_05Y  | 0.0513       | 0.60        | 854      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_04Y  | 0.0702       | 0.65        | 855      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_03Y  | 0.1102       | 0.75        | 856      |
| USD_FRA_3M_FUT_18MxUSD_QIS_3M_FUT_02Y  | 0.1910       | 0.75        | 857      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_30Y  | 0.0104       | 0.00        | 858      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_25Y  | 0.0116       | 0.00        | 859      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_20Y  | 0.0135       | 0.00        | 860      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_15Y  | 0.0164       | 0.00        | 861      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_10Y  | 0.0224       | 0.00        | 862      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_09Y  | 0.0246       | 0.00        | 863      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_08Y  | 0.0274       | 0.40        | 864      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_07Y  | 0.0314       | 0.40        | 865      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_06Y  | 0.0375       | 0.45        | 866      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_05Y  | 0.0465       | 0.50        | 867      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_04Y  | 0.0629       | 0.50        | 868      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_03Y  | 0.0994       | 0.55        | 869      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_02Y  | 0.2126       | 0.65        | 870      |
| USD_FRA_3M_FUT_12MxUSD_IRS_1M_FUT_01Y  | 0.7263       | 0.50        | 871      |
| USD_FRA_3M_FUT_12MxUSD_FRA_1M_FUT_24M  | 2.2602       | 0.60        | 872      |
| USD_FRA_3M_FUT_12MxUSD_FRA_1M_FUT_18M  | 2.6228       | 0.60        | 873      |
| USD_FRA_3M_FUT_12MxUSD_FRA_1M_FUT_12M  | 2.4990       | 0.40        | 874      |
| USD_FRA_3M_FUT_12MxUSD_FRA_1M_FUT_06M  | 6.7160       | 0.00        | 875      |
| USD_FRA_3M_FUT_12MxUSD_OIS_OIS_FUT_02Y | 0.2284       | 0.55        | 876      |
| USD_FRA_3M_FUT_12MxUSD_OIS_OIS_FUT_12M | 1.1392       | 0.50        | 877      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_30Y  | 0.0081       | 0.00        | 878      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_25Y  | 0.0090       | 0.00        | 879      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_20Y  | 0.0104       | 0.00        | 880      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_15Y  | 0.0124       | 0.00        | 881      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_10Y  | 0.0170       | 0.00        | 882      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_09Y  | 0.0188       | 0.00        | 883      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_08Y  | 0.0210       | 0.00        | 884      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_07Y  | 0.0241       | 0.00        | 885      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_06Y  | 0.0287       | 0.40        | 886      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_05Y  | 0.0357       | 0.50        | 887      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_04Y  | 0.0489       | 0.55        | 888      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_03Y  | 0.0767       | 0.65        | 889      |
| USD_FRA_3M_FUT_12MxUSD_QIS_3M_FUT_02Y  | 0.1331       | 0.75        | 890      |



| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_30Y  | 0.0075       | 0.00        | 891      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_25Y  | 0.0083       | 0.00        | 892      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_20Y  | 0.0097       | 0.00        | 893      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_15Y  | 0.0117       | 0.00        | 894      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_10Y  | 0.0160       | 0.00        | 895      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_09Y  | 0.0176       | 0.00        | 896      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_08Y  | 0.0197       | 0.00        | 897      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_07Y  | 0.0225       | 0.00        | 898      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_06Y  | 0.0269       | 0.00        | 899      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_05Y  | 0.0334       | 0.00        | 900      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_04Y  | 0.0451       | 0.00        | 901      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_03Y  | 0.0713       | 0.00        | 902      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_02Y  | 0.1526       | 0.45        | 903      |
| USD_FRA_3M_FUT_06MxUSD_IRS_1M_FUT_01Y  | 0.5211       | 0.70        | 904      |
| USD_FRA_3M_FUT_06MxUSD_FRA_1M_FUT_24M  | 1.6218       | 0.00        | 905      |
| USD_FRA_3M_FUT_06MxUSD_FRA_1M_FUT_18M  | 1.8820       | 0.00        | 906      |
| USD_FRA_3M_FUT_06MxUSD_FRA_1M_FUT_12M  | 1.7931       | 0.40        | 907      |
| USD_FRA_3M_FUT_06MxUSD_FRA_1M_FUT_06M  | 4.8190       | 0.50        | 908      |
| USD_FRA_3M_FUT_06MxUSD_OIS_OIS_FUT_02Y | 0.1639       | 0.00        | 909      |
| USD_FRA_3M_FUT_06MxUSD_OIS_OIS_FUT_12M | 0.8174       | 0.00        | 910      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_30Y  | 0.0058       | 0.00        | 911      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_25Y  | 0.0065       | 0.00        | 912      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_20Y  | 0.0074       | 0.00        | 913      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_15Y  | 0.0089       | 0.00        | 914      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_10Y  | 0.0122       | 0.00        | 915      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_09Y  | 0.0135       | 0.00        | 916      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_08Y  | 0.0151       | 0.00        | 917      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_07Y  | 0.0173       | 0.00        | 918      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_06Y  | 0.0206       | 0.00        | 919      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_05Y  | 0.0256       | 0.00        | 920      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_04Y  | 0.0351       | 0.00        | 921      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_03Y  | 0.0551       | 0.40        | 922      |
| USD_FRA_3M_FUT_06MxUSD_QIS_3M_FUT_02Y  | 0.0955       | 0.50        | 923      |
| USD_IRS_1M_FUT_30YxUSD_FRA_1M_FUT_24M  | 217.2388     | 0.55        | 924      |
| USD_IRS_1M_FUT_30YxUSD_FRA_1M_FUT_18M  | 252.0897     | 0.50        | 925      |
| USD_IRS_1M_FUT_30YxUSD_FRA_1M_FUT_12M  | 240.1871     | 0.00        | 926      |
| USD_IRS_1M_FUT_30YxUSD_FRA_1M_FUT_06M  | 645.5059     | 0.00        | 927      |
| USD_IRS_1M_FUT_30YxUSD_OIS_OIS_FUT_02Y | 21.9529      | 0.55        | 928      |
| USD_IRS_1M_FUT_30YxUSD_OIS_OIS_FUT_12M | 109.4935     | 0.00        | 929      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_30Y  | 0.7831       | 0.45        | 930      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_25Y  | 0.8692       | 0.45        | 931      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_20Y  | 0.9973       | 0.45        | 932      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_15Y  | 1.1934       | 0.45        | 933      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_10Y  | 1.6353       | 0.50        | 934      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_09Y  | 1.8031       | 0.50        | 935      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_08Y  | 2.0225       | 0.50        | 936      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_07Y  | 2.3163       | 0.50        | 937      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_06Y  | 2.7575       | 0.50        | 938      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_05Y  | 3.4339       | 0.50        | 939      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_04Y  | 4.6991       | 0.50        | 940      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_03Y  | 7.3767       | 0.45        | 941      |
| USD_IRS_1M_FUT_30YxUSD_QIS_3M_FUT_02Y  | 12.7881      | 0.00        | 942      |
| USD_IRS_1M_FUT_25YxUSD_FRA_1M_FUT_24M  | 194.2552     | 0.60        | 943      |
| USD_IRS_1M_FUT_25YxUSD_FRA_1M_FUT_18M  | 225.4189     | 0.50        | 944      |
| USD_IRS_1M_FUT_25YxUSD_FRA_1M_FUT_12M  | 214.7756     | 0.00        | 945      |
| USD_IRS_1M_FUT_25YxUSD_FRA_1M_FUT_06M  | 577.2121     | 0.00        | 946      |
| USD_IRS_1M_FUT_25YxUSD_OIS_OIS_FUT_02Y | 19.6303      | 0.55        | 947      |
| USD_IRS_1M_FUT_25YxUSD_OIS_OIS_FUT_12M | 97.9092      | 0.00        | 948      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_30Y  | 0.7003       | 0.45        | 949      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_25Y  | 0.7772       | 0.45        | 950      |



| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_20Y  | 0.8918       | 0.45        | 951      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_15Y  | 1.0671       | 0.45        | 952      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_10Y  | 1.4623       | 0.50        | 953      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_09Y  | 1.6123       | 0.50        | 954      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_08Y  | 1.8085       | 0.50        | 955      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_07Y  | 2.0713       | 0.50        | 956      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_06Y  | 2.4657       | 0.50        | 957      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_05Y  | 3.0706       | 0.50        | 958      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_04Y  | 4.2019       | 0.50        | 959      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_03Y  | 6.5963       | 0.45        | 960      |
| USD_IRS_1M_FUT_25YxUSD_QIS_3M_FUT_02Y  | 11.4352      | 0.00        | 961      |
| USD_IRS_1M_FUT_20YxUSD_FRA_1M_FUT_24M  | 167.7966     | 0.60        | 962      |
| USD_IRS_1M_FUT_20YxUSD_FRA_1M_FUT_18M  | 194.7157     | 0.55        | 963      |
| USD_IRS_1M_FUT_20YxUSD_FRA_1M_FUT_12M  | 185.5221     | 0.00        | 964      |
| USD_IRS_1M_FUT_20YxUSD_FRA_1M_FUT_06M  | 498.5930     | 0.00        | 965      |
| USD_IRS_1M_FUT_20YxUSD_OIS_OIS_FUT_02Y | 16.9566      | 0.55        | 966      |
| USD_IRS_1M_FUT_20YxUSD_OIS_OIS_FUT_12M | 84.5735      | 0.00        | 967      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_30Y  | 0.6049       | 0.40        | 968      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_25Y  | 0.6714       | 0.45        | 969      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_20Y  | 0.7703       | 0.45        | 970      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_15Y  | 0.9218       | 0.45        | 971      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_10Y  | 1.2632       | 0.50        | 972      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_09Y  | 1.3927       | 0.50        | 973      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_08Y  | 1.5622       | 0.50        | 974      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_07Y  | 1.7892       | 0.50        | 975      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_06Y  | 2.1299       | 0.55        | 976      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_05Y  | 2.6524       | 0.50        | 977      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_04Y  | 3.6296       | 0.50        | 978      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_03Y  | 5.6978       | 0.45        | 979      |
| USD_IRS_1M_FUT_20YxUSD_QIS_3M_FUT_02Y  | 9.8776       | 0.40        | 980      |
| USD_IRS_1M_FUT_15YxUSD_FRA_1M_FUT_24M  | 138.2385     | 0.65        | 981      |
| USD_IRS_1M_FUT_15YxUSD_FRA_1M_FUT_18M  | 160.4157     | 0.55        | 982      |
| USD_IRS_1M_FUT_15YxUSD_FRA_1M_FUT_12M  | 152.8415     | 0.00        | 983      |
| USD_IRS_1M_FUT_15YxUSD_FRA_1M_FUT_06M  | 410.7636     | 0.00        | 984      |
| USD_IRS_1M_FUT_15YxUSD_OIS_OIS_FUT_02Y | 13.9696      | 0.60        | 985      |
| USD_IRS_1M_FUT_15YxUSD_OIS_OIS_FUT_12M | 69.6755      | 0.00        | 986      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_30Y  | 0.4983       | 0.40        | 987      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_25Y  | 0.5531       | 0.45        | 988      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_20Y  | 0.6346       | 0.45        | 989      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_15Y  | 0.7594       | 0.45        | 990      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_10Y  | 1.0406       | 0.50        | 991      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_09Y  | 1.1474       | 0.50        | 992      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_08Y  | 1.2870       | 0.55        | 993      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_07Y  | 1.4740       | 0.55        | 994      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_06Y  | 1.7547       | 0.55        | 995      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_05Y  | 2.1852       | 0.55        | 996      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_04Y  | 2.9902       | 0.55        | 997      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_03Y  | 4.6941       | 0.50        | 998      |
| USD_IRS_1M_FUT_15YxUSD_QIS_3M_FUT_02Y  | 8.1376       | 0.40        | 999      |
| USD_IRS_1M_FUT_10YxUSD_FRA_1M_FUT_24M  | 101.0535     | 0.70        | 1000     |
| USD_IRS_1M_FUT_10YxUSD_FRA_1M_FUT_18M  | 117.2652     | 0.65        | 1001     |
| USD_IRS_1M_FUT_10YxUSD_FRA_1M_FUT_12M  | 111.7284     | 0.00        | 1002     |
| USD_IRS_1M_FUT_10YxUSD_FRA_1M_FUT_06M  | 300.2716     | 0.00        | 1003     |
| USD_IRS_1M_FUT_10YxUSD_OIS_OIS_FUT_02Y | 10.2119      | 0.70        | 1004     |
| USD_IRS_1M_FUT_10YxUSD_OIS_OIS_FUT_12M | 50.9333      | 0.40        | 1005     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_30Y  | 0.3643       | 0.40        | 1006     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_25Y  | 0.4043       | 0.40        | 1007     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_20Y  | 0.4639       | 0.40        | 1008     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_15Y  | 0.5551       | 0.45        | 1009     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_10Y  | 0.7607       | 0.50        | 1010     |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_09Y  | 0.8387       | 0.50        | 1011     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_08Y  | 0.9408       | 0.55        | 1012     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_07Y  | 1.0775       | 0.55        | 1013     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_06Y  | 1.2827       | 0.55        | 1014     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_05Y  | 1.5974       | 0.60        | 1015     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_04Y  | 2.1859       | 0.60        | 1016     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_03Y  | 3.4315       | 0.55        | 1017     |
| USD_IRS_1M_FUT_10YxUSD_QIS_3M_FUT_02Y  | 5.9487       | 0.45        | 1018     |
| USD_IRS_1M_FUT_09YxUSD_FRA_1M_FUT_24M  | 91.9752      | 0.75        | 1019     |
| USD_IRS_1M_FUT_09YxUSD_FRA_1M_FUT_18M  | 106.7305     | 0.65        | 1020     |
| USD_IRS_1M_FUT_09YxUSD_FRA_1M_FUT_12M  | 101.6911     | 0.00        | 1021     |
| USD_IRS_1M_FUT_09YxUSD_FRA_1M_FUT_06M  | 273.2962     | 0.00        | 1022     |
| USD_IRS_1M_FUT_09YxUSD_OIS_OIS_FUT_02Y | 9.2945       | 0.70        | 1023     |
| USD_IRS_1M_FUT_09YxUSD_OIS_OIS_FUT_12M | 46.3577      | 0.40        | 1024     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_30Y  | 0.3316       | 0.40        | 1025     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_25Y  | 0.3680       | 0.40        | 1026     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_20Y  | 0.4222       | 0.40        | 1027     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_15Y  | 0.5053       | 0.45        | 1028     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_10Y  | 0.6924       | 0.50        | 1029     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_09Y  | 0.7634       | 0.50        | 1030     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_08Y  | 0.8563       | 0.55        | 1031     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_07Y  | 0.9807       | 0.55        | 1032     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_06Y  | 1.1675       | 0.55        | 1033     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_05Y  | 1.4539       | 0.60        | 1034     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_04Y  | 1.9895       | 0.60        | 1035     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_03Y  | 3.1232       | 0.55        | 1036     |
| USD_IRS_1M_FUT_09YxUSD_QIS_3M_FUT_02Y  | 5.4143       | 0.50        | 1037     |
| USD_IRS_1M_FUT_08YxUSD_FRA_1M_FUT_24M  | 82.3693      | 0.75        | 1038     |
| USD_IRS_1M_FUT_08YxUSD_FRA_1M_FUT_18M  | 95.5835      | 0.65        | 1039     |
| USD_IRS_1M_FUT_08YxUSD_FRA_1M_FUT_12M  | 91.0705      | 0.00        | 1040     |
| USD_IRS_1M_FUT_08YxUSD_FRA_1M_FUT_06M  | 244.7531     | 0.00        | 1041     |
| USD_IRS_1M_FUT_08YxUSD_OIS_OIS_FUT_02Y | 8.3238       | 0.70        | 1042     |
| USD_IRS_1M_FUT_08YxUSD_OIS_OIS_FUT_12M | 41.5161      | 0.40        | 1043     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_30Y  | 0.2969       | 0.00        | 1044     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_25Y  | 0.3296       | 0.40        | 1045     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_20Y  | 0.3781       | 0.40        | 1046     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_15Y  | 0.4525       | 0.40        | 1047     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_10Y  | 0.6201       | 0.50        | 1048     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_09Y  | 0.6837       | 0.50        | 1049     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_08Y  | 0.7668       | 0.55        | 1050     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_07Y  | 0.8783       | 0.55        | 1051     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_06Y  | 1.0455       | 0.55        | 1052     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_05Y  | 1.3020       | 0.60        | 1053     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_04Y  | 1.7817       | 0.60        | 1054     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_03Y  | 2.7970       | 0.55        | 1055     |
| USD_IRS_1M_FUT_08YxUSD_QIS_3M_FUT_02Y  | 4.8488       | 0.50        | 1056     |
| USD_IRS_1M_FUT_07YxUSD_FRA_1M_FUT_24M  | 71.9650      | 0.75        | 1057     |
| USD_IRS_1M_FUT_07YxUSD_FRA_1M_FUT_18M  | 83.5101      | 0.70        | 1058     |
| USD_IRS_1M_FUT_07YxUSD_FRA_1M_FUT_12M  | 79.5671      | 0.00        | 1059     |
| USD_IRS_1M_FUT_07YxUSD_FRA_1M_FUT_06M  | 213.8377     | 0.00        | 1060     |
| USD_IRS_1M_FUT_07YxUSD_OIS_OIS_FUT_02Y | 7.2724       | 0.75        | 1061     |
| USD_IRS_1M_FUT_07YxUSD_OIS_OIS_FUT_12M | 36.2721      | 0.40        | 1062     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_30Y  | 0.2594       | 0.00        | 1063     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_25Y  | 0.2879       | 0.00        | 1064     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_20Y  | 0.3304       | 0.00        | 1065     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_15Y  | 0.3953       | 0.40        | 1066     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_10Y  | 0.5417       | 0.45        | 1067     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_09Y  | 0.5973       | 0.50        | 1068     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_08Y  | 0.6700       | 0.50        | 1069     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_07Y  | 0.7673       | 0.55        | 1070     |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_06Y  | 0.9135       | 0.55        | 1071     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_05Y  | 1.1376       | 0.60        | 1072     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_04Y  | 1.5567       | 0.60        | 1073     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_03Y  | 2.4437       | 0.55        | 1074     |
| USD_IRS_1M_FUT_07YxUSD_QIS_3M_FUT_02Y  | 4.2363       | 0.50        | 1075     |
| USD_IRS_1M_FUT_06YxUSD_FRA_1M_FUT_24M  | 60.3299      | 0.80        | 1076     |
| USD_IRS_1M_FUT_06YxUSD_FRA_1M_FUT_18M  | 70.0085      | 0.70        | 1077     |
| USD_IRS_1M_FUT_06YxUSD_FRA_1M_FUT_12M  | 66.7030      | 0.00        | 1078     |
| USD_IRS_1M_FUT_06YxUSD_FRA_1M_FUT_06M  | 179.2651     | 0.00        | 1079     |
| USD_IRS_1M_FUT_06YxUSD_OIS_OIS_FUT_02Y | 6.0966       | 0.75        | 1080     |
| USD_IRS_1M_FUT_06YxUSD_OIS_OIS_FUT_12M | 30.4077      | 0.45        | 1081     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_30Y  | 0.2175       | 0.00        | 1082     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_25Y  | 0.2414       | 0.00        | 1083     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_20Y  | 0.2770       | 0.00        | 1084     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_15Y  | 0.3314       | 0.40        | 1085     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_10Y  | 0.4542       | 0.45        | 1086     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_09Y  | 0.5007       | 0.50        | 1087     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_08Y  | 0.5617       | 0.50        | 1088     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_07Y  | 0.6433       | 0.55        | 1089     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_06Y  | 0.7658       | 0.55        | 1090     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_05Y  | 0.9536       | 0.60        | 1091     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_04Y  | 1.3050       | 0.60        | 1092     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_03Y  | 2.0486       | 0.60        | 1093     |
| USD_IRS_1M_FUT_06YxUSD_QIS_3M_FUT_02Y  | 3.5514       | 0.55        | 1094     |
| USD_IRS_1M_FUT_05YxUSD_FRA_1M_FUT_24M  | 48.5753      | 0.85        | 1095     |
| USD_IRS_1M_FUT_05YxUSD_FRA_1M_FUT_18M  | 56.3681      | 0.75        | 1096     |
| USD_IRS_1M_FUT_05YxUSD_FRA_1M_FUT_12M  | 53.7067      | 0.00        | 1097     |
| USD_IRS_1M_FUT_05YxUSD_FRA_1M_FUT_06M  | 144.3374     | 0.00        | 1098     |
| USD_IRS_1M_FUT_05YxUSD_OIS_OIS_FUT_02Y | 4.9088       | 0.80        | 1099     |
| USD_IRS_1M_FUT_05YxUSD_OIS_OIS_FUT_12M | 24.4831      | 0.45        | 1100     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_30Y  | 0.1751       | 0.00        | 1101     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_25Y  | 0.1943       | 0.00        | 1102     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_20Y  | 0.2230       | 0.00        | 1103     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_15Y  | 0.2668       | 0.00        | 1104     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_10Y  | 0.3657       | 0.45        | 1105     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_09Y  | 0.4032       | 0.45        | 1106     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_08Y  | 0.4522       | 0.50        | 1107     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_07Y  | 0.5179       | 0.50        | 1108     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_06Y  | 0.6166       | 0.55        | 1109     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_05Y  | 0.7678       | 0.60        | 1110     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_04Y  | 1.0507       | 0.60        | 1111     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_03Y  | 1.6495       | 0.60        | 1112     |
| USD_IRS_1M_FUT_05YxUSD_QIS_3M_FUT_02Y  | 2.8595       | 0.55        | 1113     |
| USD_IRS_1M_FUT_04YxUSD_FRA_1M_FUT_24M  | 35.9331      | 0.90        | 1114     |
| USD_IRS_1M_FUT_04YxUSD_FRA_1M_FUT_18M  | 41.6978      | 0.80        | 1115     |
| USD_IRS_1M_FUT_04YxUSD_FRA_1M_FUT_12M  | 39.7290      | 0.00        | 1116     |
| USD_IRS_1M_FUT_04YxUSD_FRA_1M_FUT_06M  | 106.7721     | 0.00        | 1117     |
| USD_IRS_1M_FUT_04YxUSD_OIS_OIS_FUT_02Y | 3.6312       | 0.85        | 1118     |
| USD_IRS_1M_FUT_04YxUSD_OIS_OIS_FUT_12M | 18.1111      | 0.50        | 1119     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_30Y  | 0.1295       | 0.00        | 1120     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_25Y  | 0.1438       | 0.00        | 1121     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_20Y  | 0.1650       | 0.00        | 1122     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_15Y  | 0.1974       | 0.00        | 1123     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_10Y  | 0.2705       | 0.40        | 1124     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_09Y  | 0.2982       | 0.45        | 1125     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_08Y  | 0.3345       | 0.45        | 1126     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_07Y  | 0.3831       | 0.50        | 1127     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_06Y  | 0.4561       | 0.55        | 1128     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_05Y  | 0.5680       | 0.60        | 1129     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_04Y  | 0.7773       | 0.65        | 1130     |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_03Y  | 1.2202       | 0.60        | 1131     |
| USD_IRS_1M_FUT_04YxUSD_QIS_3M_FUT_02Y  | 2.1153       | 0.60        | 1132     |
| USD_IRS_1M_FUT_03YxUSD_FRA_1M_FUT_24M  | 22.7311      | 0.90        | 1133     |
| USD_IRS_1M_FUT_03YxUSD_FRA_1M_FUT_18M  | 26.3778      | 0.80        | 1134     |
| USD_IRS_1M_FUT_03YxUSD_FRA_1M_FUT_12M  | 25.1323      | 0.00        | 1135     |
| USD_IRS_1M_FUT_03YxUSD_FRA_1M_FUT_06M  | 67.5435      | 0.00        | 1136     |
| USD_IRS_1M_FUT_03YxUSD_OIS_OIS_FUT_02Y | 2.2971       | 0.90        | 1137     |
| USD_IRS_1M_FUT_03YxUSD_OIS_OIS_FUT_12M | 11.4570      | 0.55        | 1138     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_30Y  | 0.0819       | 0.00        | 1139     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_25Y  | 0.0909       | 0.00        | 1140     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_20Y  | 0.1044       | 0.00        | 1141     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_15Y  | 0.1249       | 0.00        | 1142     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_10Y  | 0.1711       | 0.00        | 1143     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_09Y  | 0.1887       | 0.00        | 1144     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_08Y  | 0.2116       | 0.40        | 1145     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_07Y  | 0.2424       | 0.45        | 1146     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_06Y  | 0.2885       | 0.50        | 1147     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_05Y  | 0.3593       | 0.55        | 1148     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_04Y  | 0.4917       | 0.60        | 1149     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_03Y  | 0.7719       | 0.65        | 1150     |
| USD_IRS_1M_FUT_03YxUSD_QIS_3M_FUT_02Y  | 1.3381       | 0.65        | 1151     |
| USD_IRS_1M_FUT_02YxUSD_FRA_1M_FUT_24M  | 10.6309      | 0.85        | 1152     |
| USD_IRS_1M_FUT_02YxUSD_FRA_1M_FUT_18M  | 12.3364      | 0.80        | 1153     |
| USD_IRS_1M_FUT_02YxUSD_FRA_1M_FUT_12M  | 11.7539      | 0.40        | 1154     |
| USD_IRS_1M_FUT_02YxUSD_FRA_1M_FUT_06M  | 31.5888      | 0.00        | 1155     |
| USD_IRS_1M_FUT_02YxUSD_OIS_OIS_FUT_02Y | 1.0743       | 0.80        | 1156     |
| USD_IRS_1M_FUT_02YxUSD_OIS_OIS_FUT_12M | 5.3582       | 0.55        | 1157     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_30Y  | 0.0383       | 0.00        | 1158     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_25Y  | 0.0425       | 0.00        | 1159     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_20Y  | 0.0488       | 0.00        | 1160     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_15Y  | 0.0584       | 0.00        | 1161     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_10Y  | 0.0800       | 0.00        | 1162     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_09Y  | 0.0882       | 0.00        | 1163     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_08Y  | 0.0990       | 0.00        | 1164     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_07Y  | 0.1134       | 0.00        | 1165     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_06Y  | 0.1349       | 0.40        | 1166     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_05Y  | 0.1680       | 0.45        | 1167     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_04Y  | 0.2300       | 0.50        | 1168     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_03Y  | 0.3610       | 0.60        | 1169     |
| USD_IRS_1M_FUT_02YxUSD_QIS_3M_FUT_02Y  | 0.6258       | 0.60        | 1170     |
| USD_IRS_1M_FUT_01YxUSD_FRA_1M_FUT_24M  | 3.1122       | 0.00        | 1171     |
| USD_IRS_1M_FUT_01YxUSD_FRA_1M_FUT_18M  | 3.6114       | 0.00        | 1172     |
| USD_IRS_1M_FUT_01YxUSD_FRA_1M_FUT_12M  | 3.4409       | 0.45        | 1173     |
| USD_IRS_1M_FUT_01YxUSD_FRA_1M_FUT_06M  | 9.2475       | 0.60        | 1174     |
| USD_IRS_1M_FUT_01YxUSD_OIS_OIS_FUT_02Y | 0.3145       | 0.00        | 1175     |
| USD_IRS_1M_FUT_01YxUSD_OIS_OIS_FUT_12M | 1.5686       | 0.00        | 1176     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_30Y  | 0.0112       | 0.00        | 1177     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_25Y  | 0.0125       | 0.00        | 1178     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_20Y  | 0.0143       | 0.00        | 1179     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_15Y  | 0.0171       | 0.00        | 1180     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_10Y  | 0.0234       | 0.00        | 1181     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_09Y  | 0.0258       | 0.00        | 1182     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_08Y  | 0.0290       | 0.00        | 1183     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_07Y  | 0.0332       | 0.00        | 1184     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_06Y  | 0.0395       | 0.00        | 1185     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_05Y  | 0.0492       | 0.00        | 1186     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_04Y  | 0.0673       | 0.00        | 1187     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_03Y  | 0.1057       | 0.00        | 1188     |
| USD_IRS_1M_FUT_01YxUSD_QIS_3M_FUT_02Y  | 0.1832       | 0.00        | 1189     |
| USD_FRA_1M_FUT_24MxUSD_OIS_OIS_FUT_02Y | 0.1011       | 0.85        | 1190     |

| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_FRA_1M_FUT_24MxUSD_OIS_OIS_FUT_12M | 0.5040       | 0.60        | 1191     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_30Y  | 0.0036       | 0.00        | 1192     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_25Y  | 0.0040       | 0.00        | 1193     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_20Y  | 0.0046       | 0.00        | 1194     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_15Y  | 0.0055       | 0.00        | 1195     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_10Y  | 0.0075       | 0.00        | 1196     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_09Y  | 0.0083       | 0.40        | 1197     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_08Y  | 0.0093       | 0.40        | 1198     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_07Y  | 0.0107       | 0.45        | 1199     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_06Y  | 0.0127       | 0.50        | 1200     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_05Y  | 0.0158       | 0.55        | 1201     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_04Y  | 0.0216       | 0.60        | 1202     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_03Y  | 0.0340       | 0.65        | 1203     |
| USD_FRA_1M_FUT_24MxUSD_QIS_3M_FUT_02Y  | 0.0589       | 0.65        | 1204     |
| USD_FRA_1M_FUT_18MxUSD_OIS_OIS_FUT_02Y | 0.0871       | 0.75        | 1205     |
| USD_FRA_1M_FUT_18MxUSD_OIS_OIS_FUT_12M | 0.4343       | 0.60        | 1206     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_30Y  | 0.0031       | 0.00        | 1207     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_25Y  | 0.0034       | 0.00        | 1208     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_20Y  | 0.0040       | 0.00        | 1209     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_15Y  | 0.0047       | 0.00        | 1210     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_10Y  | 0.0065       | 0.00        | 1211     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_09Y  | 0.0072       | 0.00        | 1212     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_08Y  | 0.0080       | 0.00        | 1213     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_07Y  | 0.0092       | 0.40        | 1214     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_06Y  | 0.0109       | 0.45        | 1215     |



| ID                                     | Offset Ratio | Relief Rate | Priority |
|--|--------------|-------------|----------|
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_05Y  | 0.0136       | 0.50        | 1216     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_04Y  | 0.0186       | 0.55        | 1217     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_03Y  | 0.0293       | 0.60        | 1218     |
| USD_FRA_1M_FUT_18MxUSD_QIS_3M_FUT_02Y  | 0.0507       | 0.60        | 1219     |
| USD_FRA_1M_FUT_12MxUSD_OIS_OIS_FUT_02Y | 0.0914       | 0.00        | 1220     |
| USD_FRA_1M_FUT_12MxUSD_OIS_OIS_FUT_12M | 0.4559       | 0.00        | 1221     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_30Y  | 0.0033       | 0.00        | 1222     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_25Y  | 0.0036       | 0.00        | 1223     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_20Y  | 0.0042       | 0.00        | 1224     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_15Y  | 0.0050       | 0.00        | 1225     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_10Y  | 0.0068       | 0.00        | 1226     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_09Y  | 0.0075       | 0.00        | 1227     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_08Y  | 0.0084       | 0.00        | 1228     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_07Y  | 0.0096       | 0.00        | 1229     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_06Y  | 0.0115       | 0.00        | 1230     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_05Y  | 0.0143       | 0.00        | 1231     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_04Y  | 0.0196       | 0.00        | 1232     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_03Y  | 0.0307       | 0.00        | 1233     |
| USD_FRA_1M_FUT_12MxUSD_QIS_3M_FUT_02Y  | 0.0532       | 0.00        | 1234     |
| USD_FRA_1M_FUT_06MxUSD_OIS_OIS_FUT_02Y | 0.0340       | 0.00        | 1235     |
| USD_FRA_1M_FUT_06MxUSD_OIS_OIS_FUT_12M | 0.1696       | 0.00        | 1236     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_30Y  | 0.0012       | 0.00        | 1237     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_25Y  | 0.0013       | 0.00        | 1238     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_20Y  | 0.0015       | 0.00        | 1239     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_15Y  | 0.0018       | 0.00        | 1240     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_10Y  | 0.0025       | 0.00        | 1241     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_09Y  | 0.0028       | 0.00        | 1242     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_08Y  | 0.0031       | 0.00        | 1243     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_07Y  | 0.0036       | 0.00        | 1244     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_06Y  | 0.0043       | 0.00        | 1245     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_05Y  | 0.0053       | 0.00        | 1246     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_04Y  | 0.0073       | 0.00        | 1247     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_03Y  | 0.0114       | 0.00        | 1248     |
| USD_FRA_1M_FUT_06MxUSD_QIS_3M_FUT_02Y  | 0.0198       | 0.00        | 1249     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_30Y | 0.0357       | 0.00        | 1250     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_25Y | 0.0396       | 0.00        | 1251     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_20Y | 0.0454       | 0.00        | 1252     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_15Y | 0.0544       | 0.00        | 1253     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_10Y | 0.0745       | 0.00        | 1254     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_09Y | 0.0821       | 0.00        | 1255     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_08Y | 0.0921       | 0.00        | 1256     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_07Y | 0.1055       | 0.40        | 1257     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_06Y | 0.1256       | 0.45        | 1258     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_05Y | 0.1564       | 0.50        | 1259     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_04Y | 0.2141       | 0.55        | 1260     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_03Y | 0.3360       | 0.60        | 1261     |
| USD_OIS_OIS_FUT_02YxUSD_QIS_3M_FUT_02Y | 0.5825       | 0.60        | 1262     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_30Y | 0.0072       | 0.00        | 1263     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_25Y | 0.0079       | 0.00        | 1264     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_20Y | 0.0091       | 0.00        | 1265     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_15Y | 0.0109       | 0.00        | 1266     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_10Y | 0.0149       | 0.00        | 1267     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_09Y | 0.0165       | 0.00        | 1268     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_08Y | 0.0185       | 0.00        | 1269     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_07Y | 0.0212       | 0.00        | 1270     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_06Y | 0.0252       | 0.00        | 1271     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_05Y | 0.0314       | 0.00        | 1272     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_04Y | 0.0429       | 0.40        | 1273     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_03Y | 0.0674       | 0.45        | 1274     |
| USD_OIS_OIS_FUT_12MxUSD_QIS_3M_FUT_02Y | 0.1168       | 0.45        | 1275     |