

Simulation Troubleshooting Case 2

Problem 2: The trader has reported a Daily P&L jump in the consolidated simulation for the Bond ACB 5.75% 4/12 between yesterday and today.

Methodology:

The problem should be approached using the following steps:

Reproduce the problem:

User/password: MUREXFO/MUREXFO

Group: FO

Load the portfolio PL_TRAINING in Simulation by Position screen

Open the view **simulation_training_case2**

Look at the P&L columns **PL (abs)** and **PL Variation<USD>**. You can see that the PL Variation column value is very high.

Isolate:

Breakdown and spot the problem (focus on Bond ACB 5.75% 4/12).

Analyze:

Open the **Simulation by trade** screen and check the absolute P&L v/s the consolidated (with focus of Bond ACB 5.75% 4/12).

In case the consolidation is ok, open the consolidated simulation as of past date and compare yesterday P&L versus Yesterday's Stored P&L

Correction (if possible).

Details:

Reproduce:

1. Start a new session with: User/password : MUREXFO/MUREXFO
2. Select Group: FO
3. Go to Simulation/Portfolio Simulation by position
4. Choose "PL_TRAINING"
5. Open the view **simulation_training_case2**
6. Note the value of the Daily PL of the **Bond ACB 5.75%4/12: 2567**

PL_TRAINING Live feed Calculation On Trade capture On 25 Sep 20

Real time

Bond and Futures position Curve risk Yield risk Eq pos by country PL breakdown

PL MTM summary PL MTM breakdown Variation Yes/No Typology ALL Instrument ALL Portfolio

| Portfolio | Cur | Typology | Instrument | PL (abs) | PL Variation | PL<USD> | Market value | Cash | Capital gain | Revenue |
|-------------------|------------|----------|----------------|----------|--------------|---------|--------------|------|--------------|---------|
| Total PL_TRAINING | | | | 53,833 | 2,103 | 53,833 | 82,485 | | 53,447 | 702 |
| PL_TRAINING | Total Bond | | | 3,019 | 3,019 | 3,019 | 29,308 | | 2,685 | 648 |
| | AUD | Bond | ACB 5.75% 4/12 | 2,567 | 2,567 | 2,567 | 21,955 | | 2,233 | 648 |
| | | | ACB 6.25% 6/14 | 452 | 452 | 452 | 7,354 | | 452 | 0 |
| | USD | Bond | | 50,814 | -916 | 50,814 | 53,176 | | 50,763 | 0 |

7. Go to Simulation/Portfolio Simulation by trade
8. Choose "PL_TRAINING"
9. Open the view **simulation_training_case2**
10. Note the value of the Daily PL of the **Bond ACB 5.75% 4/12: 2567**

PL_TRAINING Live feed Calculation On Trade capt

Real time

PL MTM summary PL MTM breakdown Variation Yes/No Typology ALL Instrument ALL Portfolio ALL

| Portfolio | Cur | Typology | Instrument | PL (abs) | PL Variation | PL<USD> | Market value | Cash | Capital gain | Revenue | PV effect | Financing | Brk/adj fees |
|-------------------|------------|----------|----------------|----------|--------------|---------|--------------|------|--------------|---------|-----------|-----------|--------------|
| Total PL_TRAINING | | | | 8,833 | -42,898 | 8,833 | 82,485 | | 8,447 | 702 | -7 | -310 | |
| PL_TRAINING | Total Bond | | | 3,019 | 3,019 | 3,019 | 29,308 | | 2,685 | 648 | -5 | -309 | 0 |
| | AUD | Bond | ACB 5.75% 4/12 | 2,567 | 2,567 | 2,567 | 21,955 | | 2,233 | 648 | -5 | -309 | 0 |
| | | | ACB 6.25% 6/14 | 452 | 452 | 452 | 7,354 | | 452 | 0 | -0 | 0 | 0 |
| | USD | Bond | | 5,814 | -45,916 | 5,814 | 53,176 | | 5,763 | 54 | -2 | -0 | 0 |

You will note that the consolidation is ok since the Absolute P&L for IRS in the detailed simulation is reconciled with that of the consolidated.

Let's now look at yesterday's P&L

11. Open Simulation/Simulation as of past date by position, open the portfolio **PL_TRAINING**
12. Open the view **simulation_training_case2**
13. Check out the PL(Abs) as of yesterday.

You will note that the absolute P&L as of yesterday is around 2568. So we need to check Yesterdays stored PL.

| Portfolio | Cur | Typology | Instrument | PL (abs) | PL Variation<USD> | PL<USD> | Market value | Cash | Capital gain | Revenue | PV effect | Financing | Brk/adj fees |
|-------------------|-----|----------|----------------|----------|-------------------|---------|--------------|------|--------------|---------|-----------|-----------|--------------|
| Total PL TRAINING | | | | 54,299 | 54,299 | 54,299 | 75,128 | | 53,010 | 1,604 | -7 | -308 | |
| PL_TRAINING | AUD | Bond | ACB 5.75% 4/12 | 2,569 | 2,569 | 2,569 | 21,955 | | 2,236 | 645 | -5 | -308 | 0 |
| | USD | Bond | | 51,730 | 51,730 | 51,730 | 53,174 | | 50,773 | 959 | -2 | -0 | |

We need to look into yesterday's stored P&L.

14. In today's consolidated simulation, open the portfolio **PL_TRAINING**
15. Open the view **simulation_training_case2**
16. Duplicate the **Daily P&L <USD>** field.
17. Hit "F2" on the column title to change it , write " **Yesterday's Stored P&L**"
18. Right click under the title and go to Output Settings. Click on the Source Settings tab and fill it with the information below :

Settings

Statistics Settings | Snapshot settings

Default | **Source Settings**

Source: Stored

Data Loading

Table: REF_PL.REP

Storing View: REF_PL

Storing field: PL_CS_MV

Date: 24 Sep 2012

Shifter: -01 BD

Type: Private

Tag: REF_PL

Data Processing

Display Mode: Absolute value

Filter Column:

Totals: Computed

Apply

19. Next to "Source", choose **"Stored"**.
20. In the "Data Loading" section, choose the "Table" to be **"REF_PL.REP"** which is the table that contains yesterday's stored P&L.
21. Choose the shifter to be **"-1 BD"**
22. Choose the Type **"private"**
23. Choose the tag to be **"REF_PL"**
24. In the "Data Processing" section, change the "Display Mode" to **"Absolute value"**
25. Click Apply

Note that "Table" indicates from which table the values of the "Source" are fetched. This means "REF_PL.REP" contains the "Stored" values.

This modification changes the values of the new field to Yesterday's Stored P&L

You will notice that the value of yesterday's stored P&L for bond is 0. Which explains the Variation jump between yesterday's and today's PL.

simulation / Portfolio simulation by position

PL_TRAINING Live feed

Real time

View display

PL MTM summary PL MTM breakdown Variation Yes/No Typology ALL Instrument ALL Portfolio ALL

| Portfolio | Cur | Typology | Instrument | PL (abs) | PL Variation<USD> | Yesterday's stored PL | PL<USD> | Market value | Cash | Capital gain |
|-------------------|-----|----------|----------------|----------|-------------------|-----------------------|---------|--------------|------|--------------|
| Total PL_TRAINING | | | | 53,833 | 2,103 | 51,730 | 53,833 | 82,485 | | 53,447 |
| PL_TRAINING | AUD | Bond | Total Bond | 3,019 | 3,019 | | 3,019 | 29,308 | | 2,685 |
| | | | ACB 5.75% 4/12 | 2,567 | 2,567 | 0 | 2,567 | 21,955 | | 2,233 |
| | | | ACB 6.25% 6/14 | 452 | 452 | | 452 | 7,354 | | 452 |
| | USD | Bond | | 50,814 | -916 | 51,730 | 50,814 | 53,176 | | 50,763 |

Correction (if possible):

The Stored P&L should be re-launched (Feeder REF_PL).