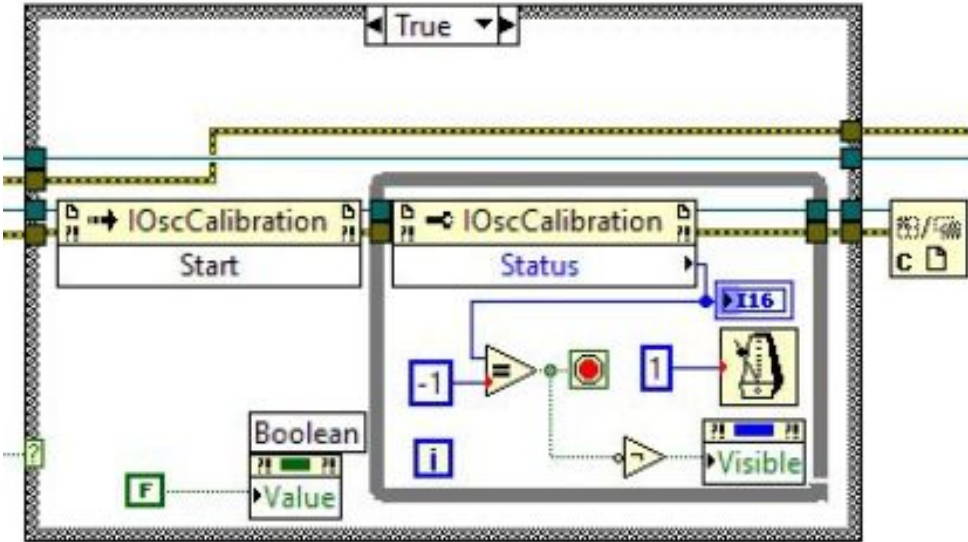


Measurement automation in laboratory physical modeling of seismic data

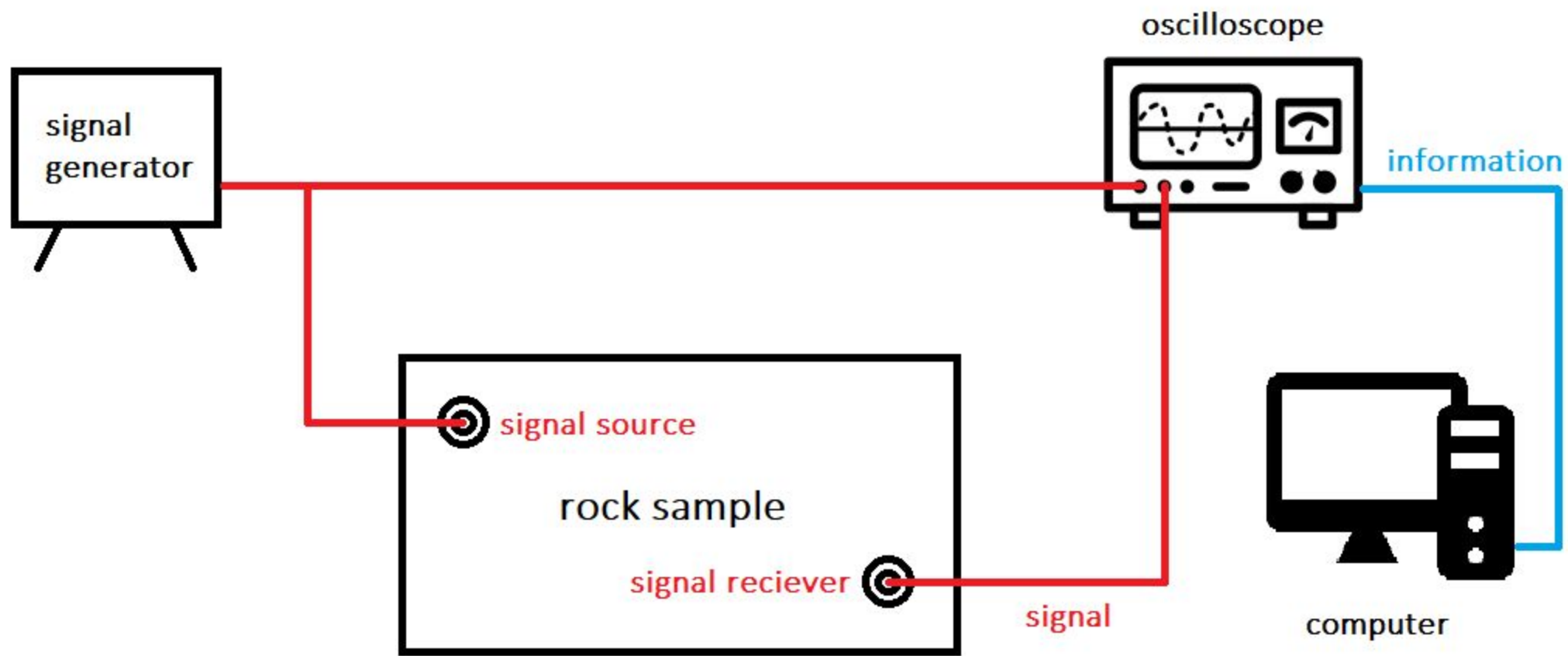




LabVIEW

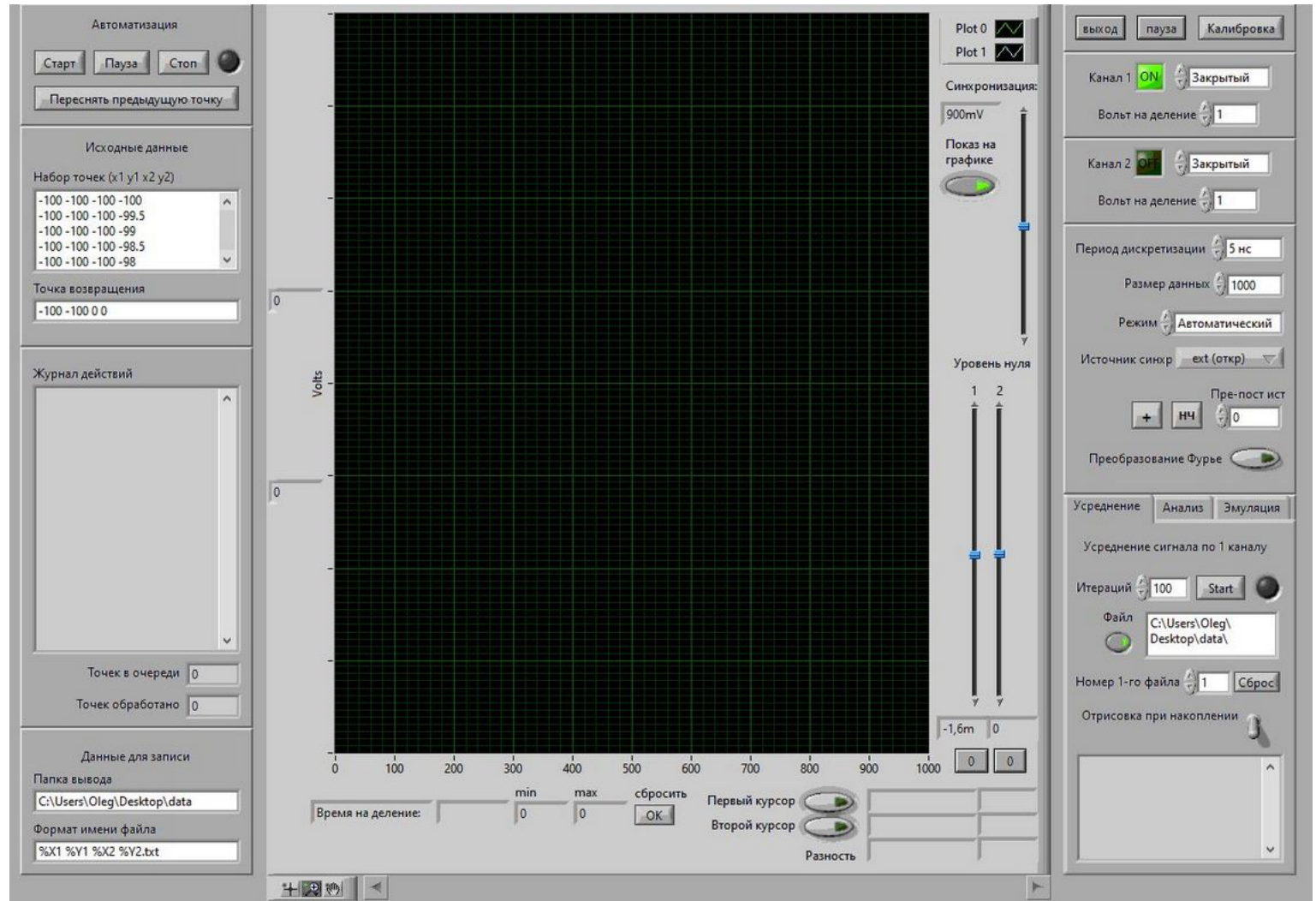


Here should be a picture
of work place



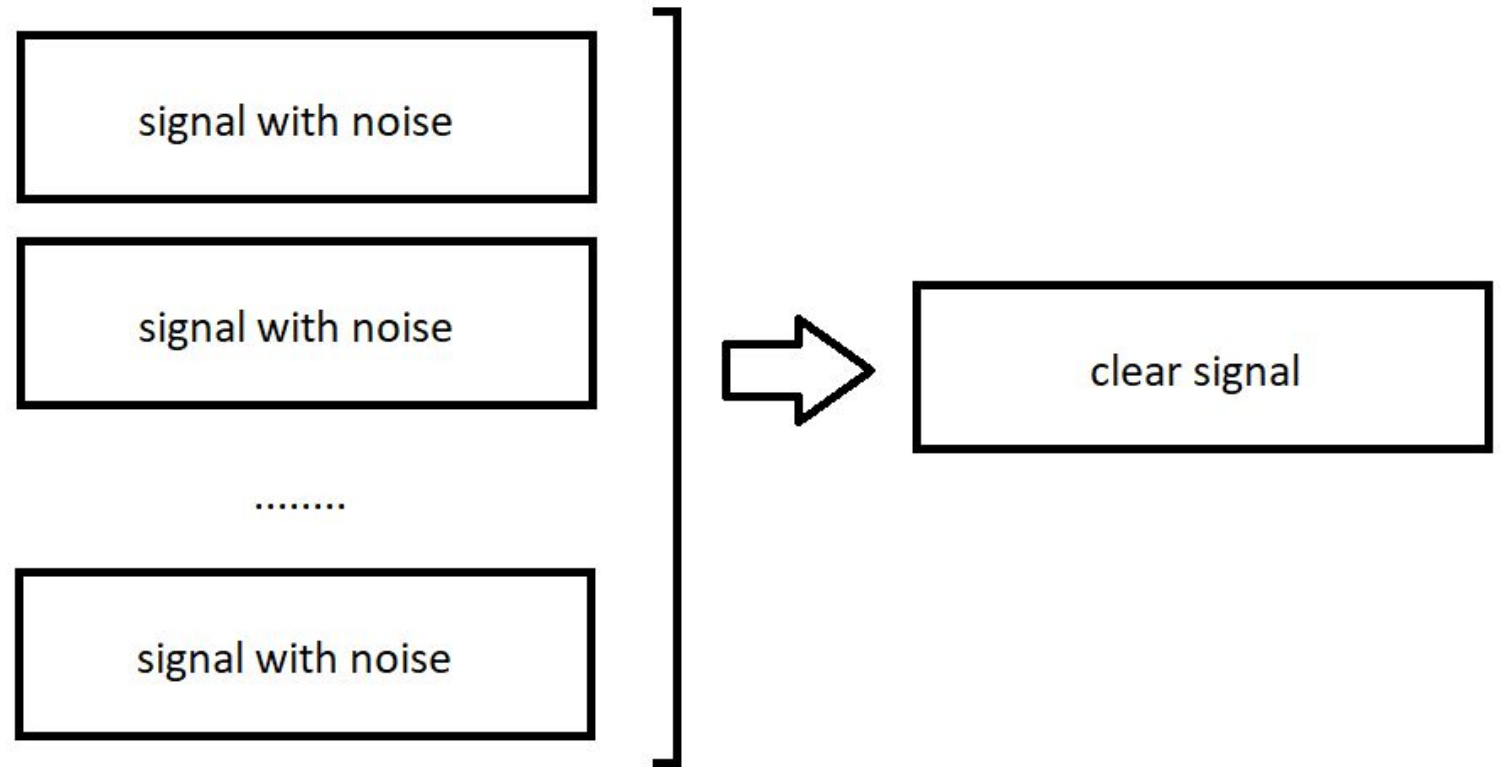
Required functionality:

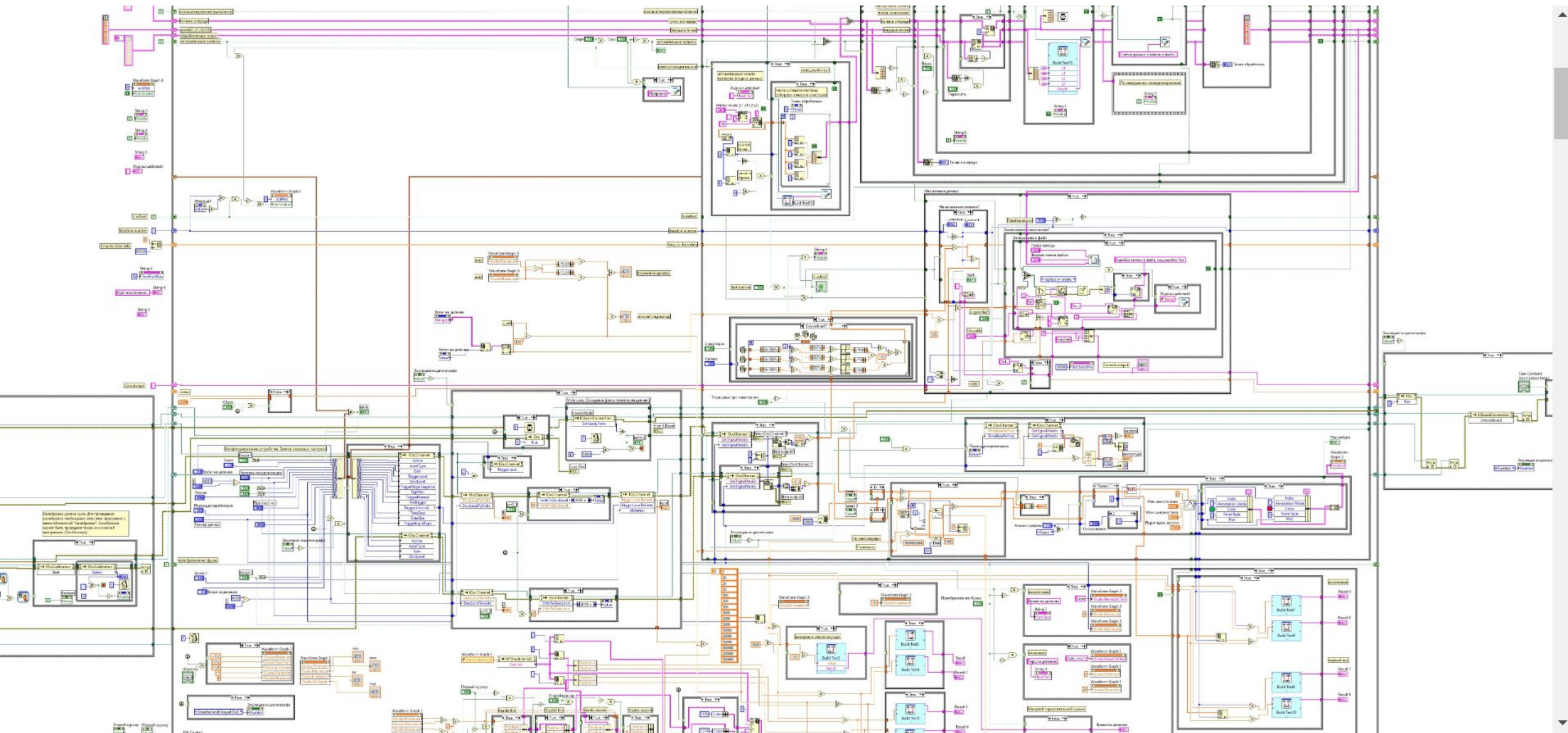
- **Display waveform graphics on the screen**
- **Control oscilloscope settings**
- Accumulation mode
- Positioning of the signal source and receiver using stepper motors



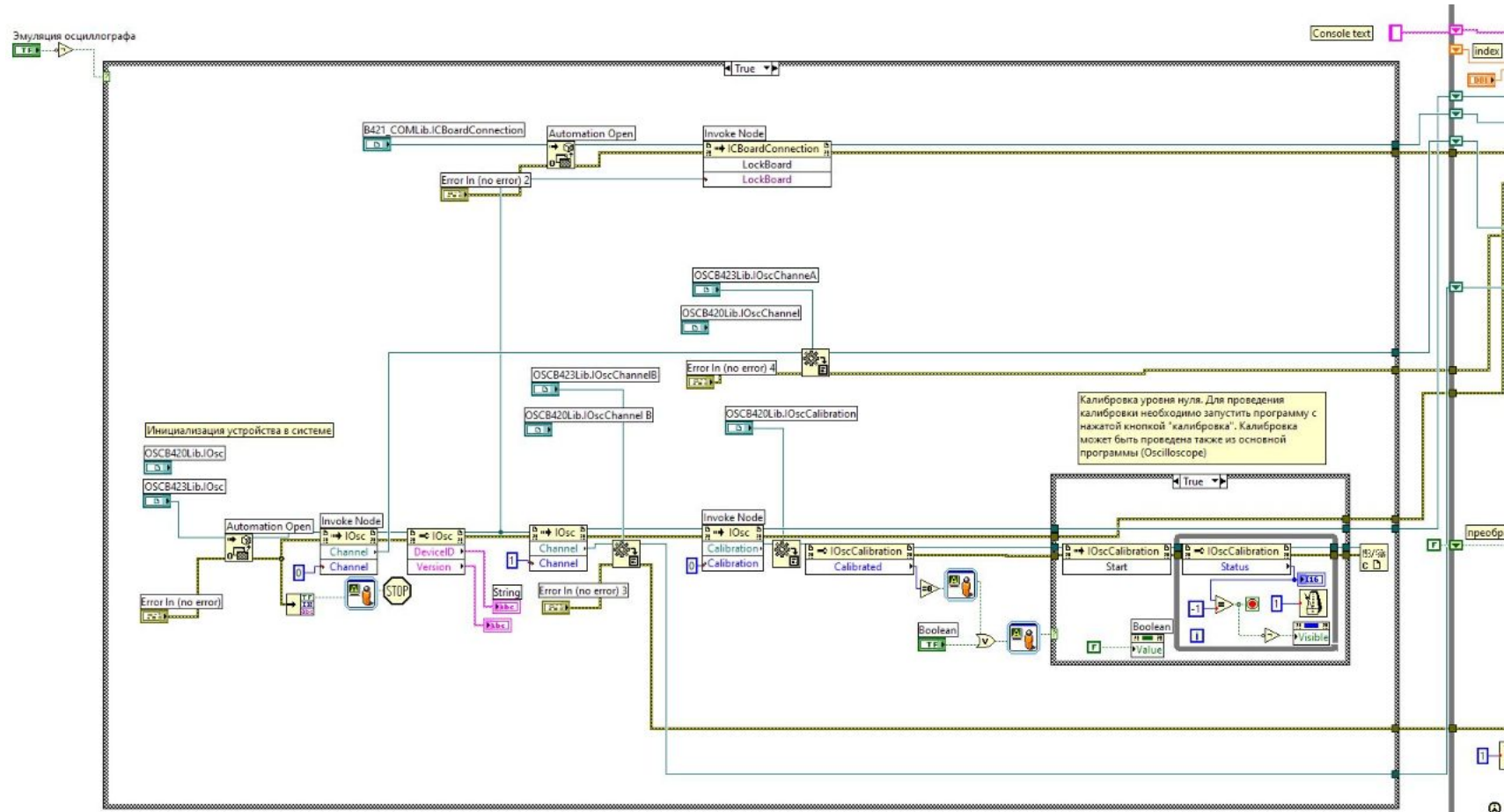
Required functionality:

- Display waveform graphics on the screen
- Control oscilloscope settings
- **Accumulation mode**
- Positioning of the signal source and receiver using stepper motors

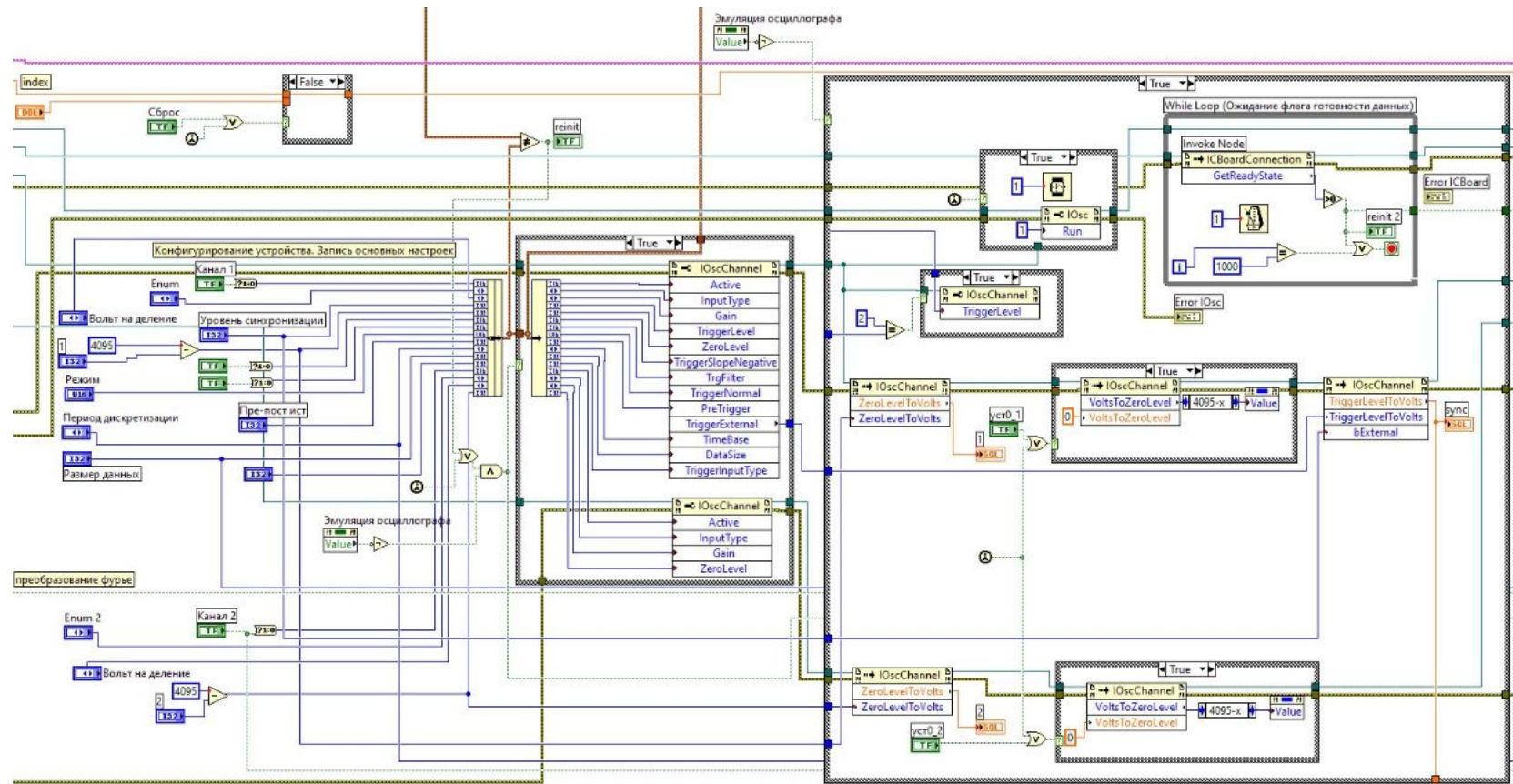




Initialization and main loop



Controlling oscilloscope settings



Канал 1 ☒ ON

Вольт на деление

Канал 2 ☒ OFF

Вольт на деление

Период дискретизации

Размер данных

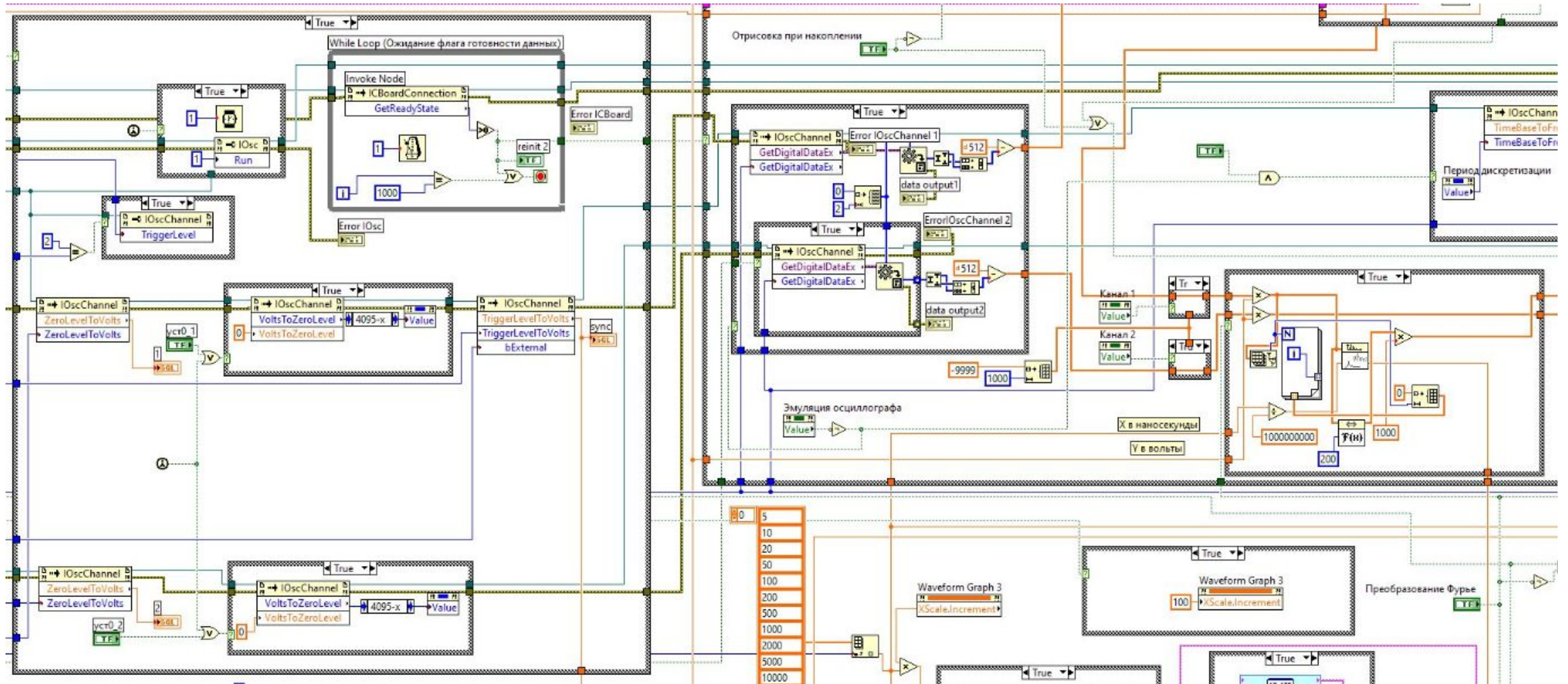
Режим

Источник синхр

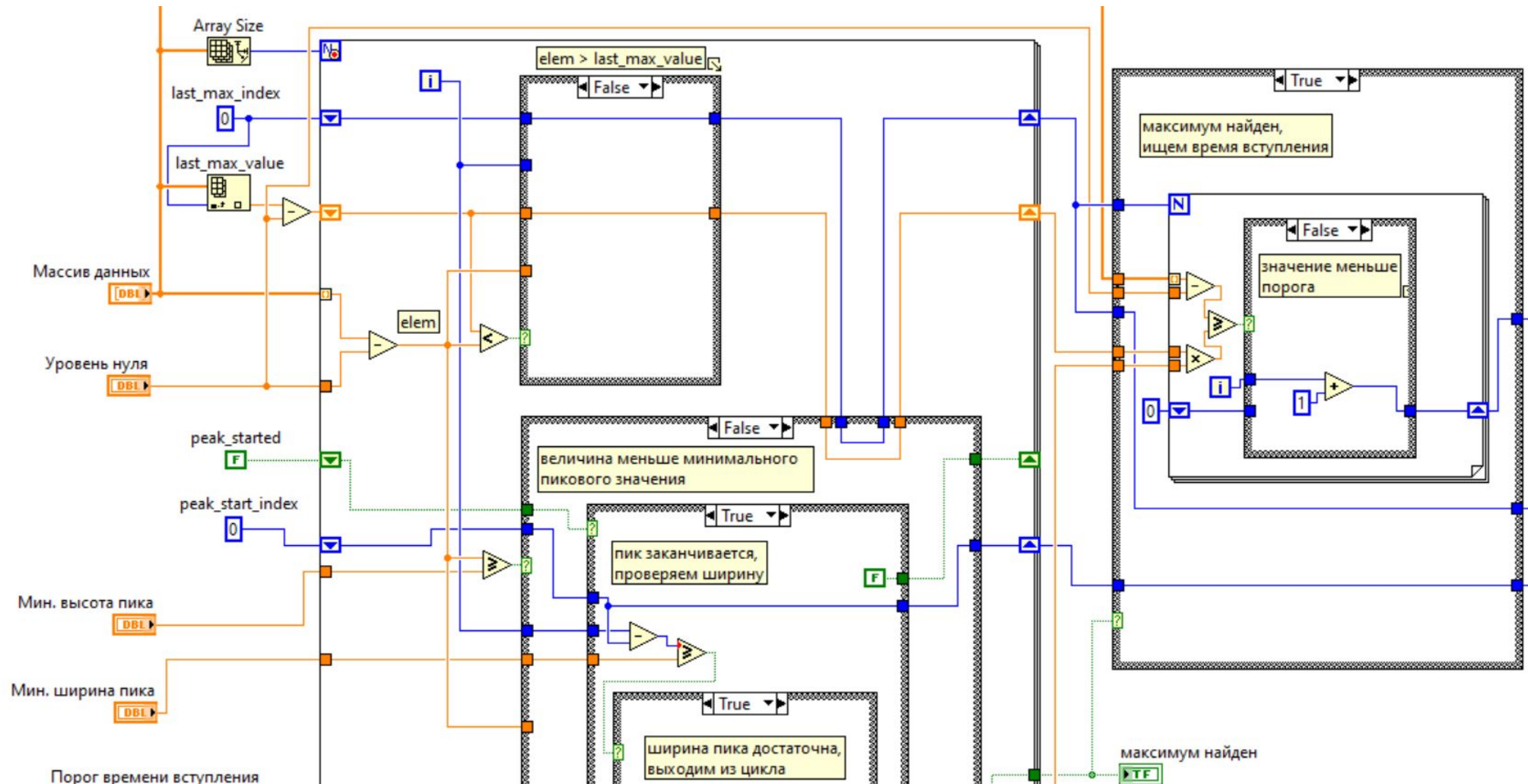
Пре-пост ист

Преобразование Фурье ☐

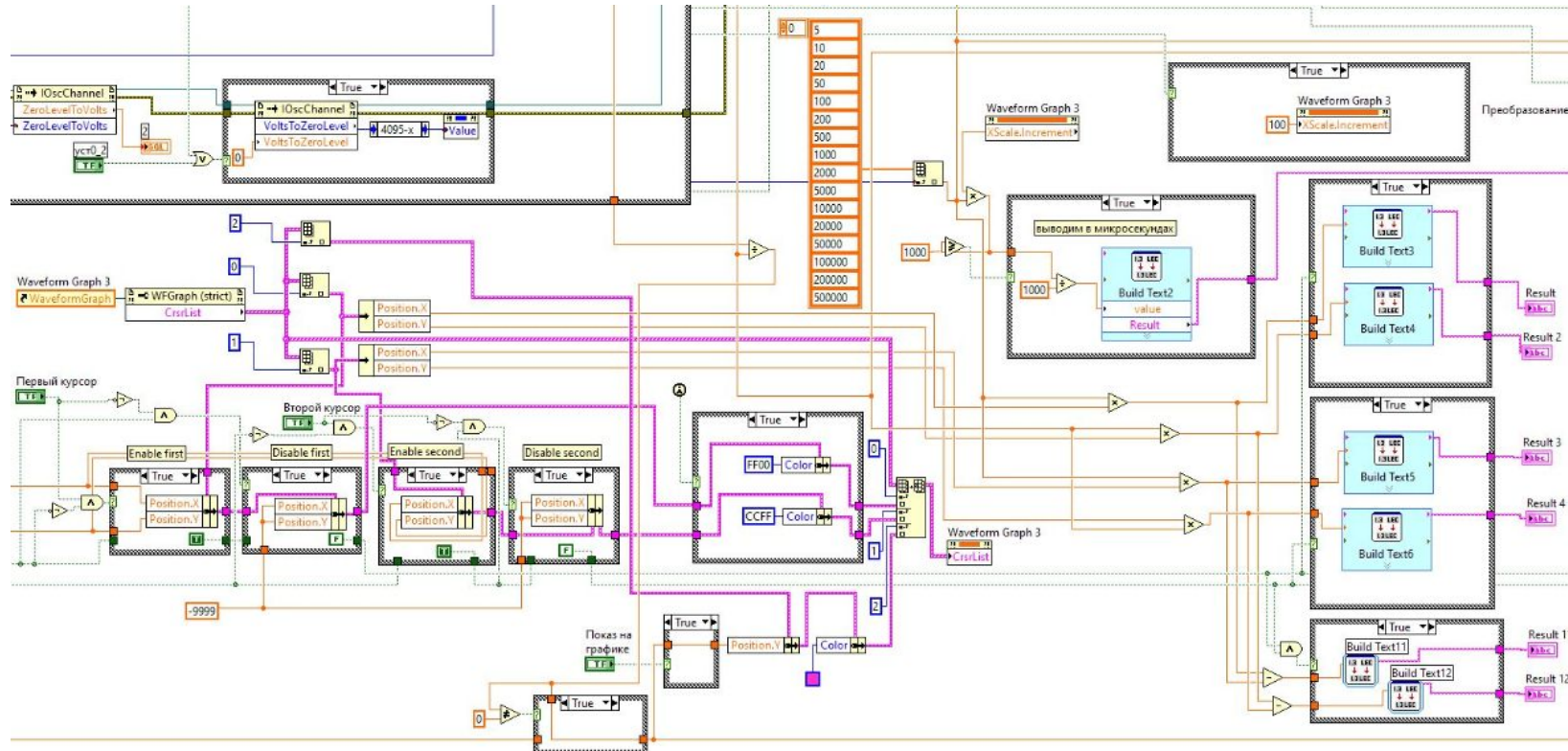
Receiving data and drawing



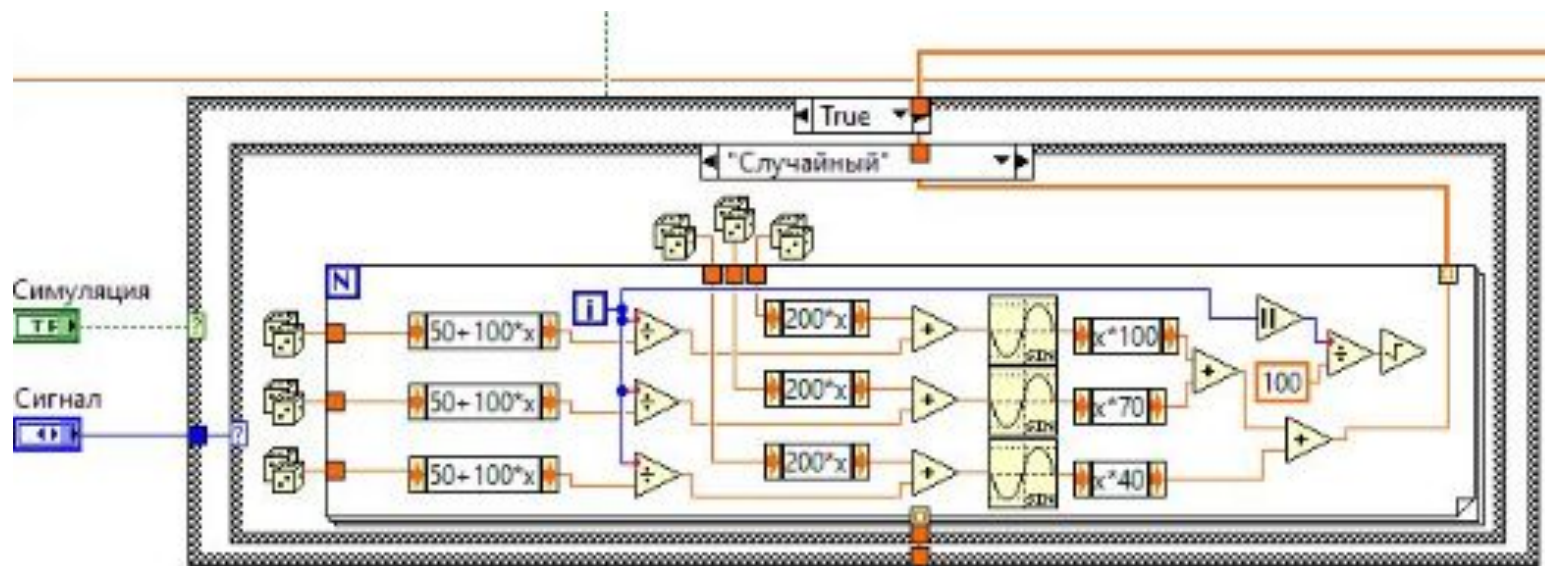
Graph analysis (peak detection)



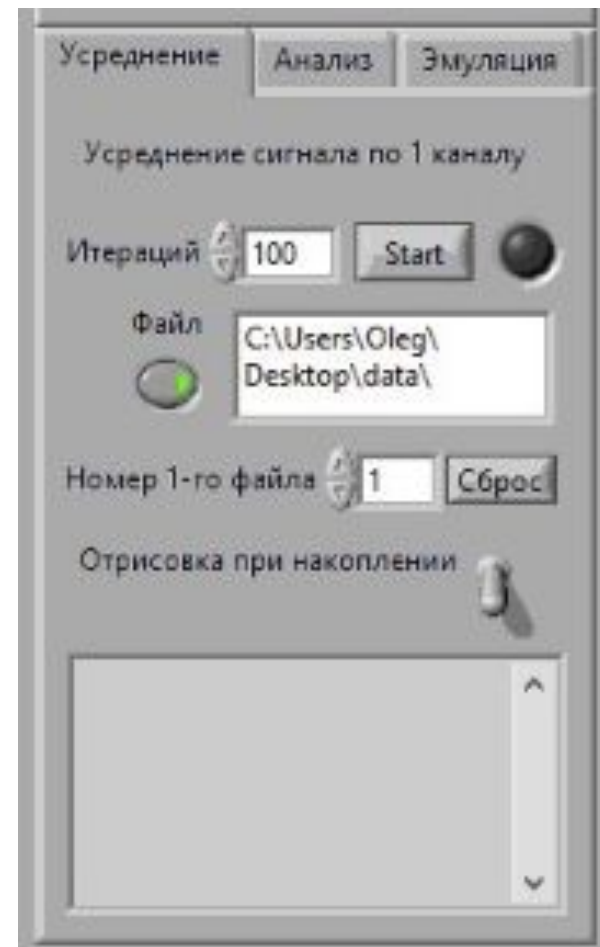
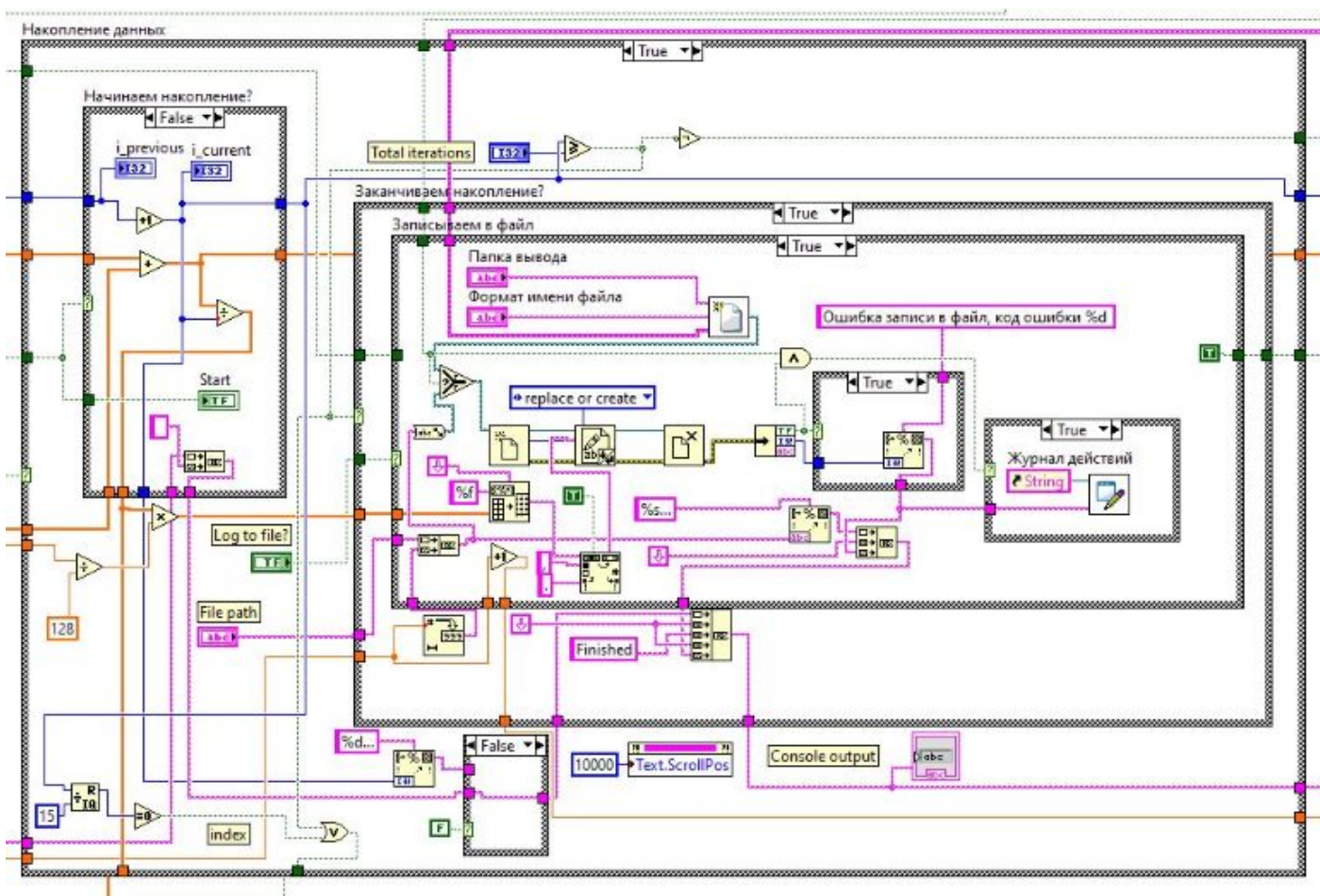
Implementation of cursors



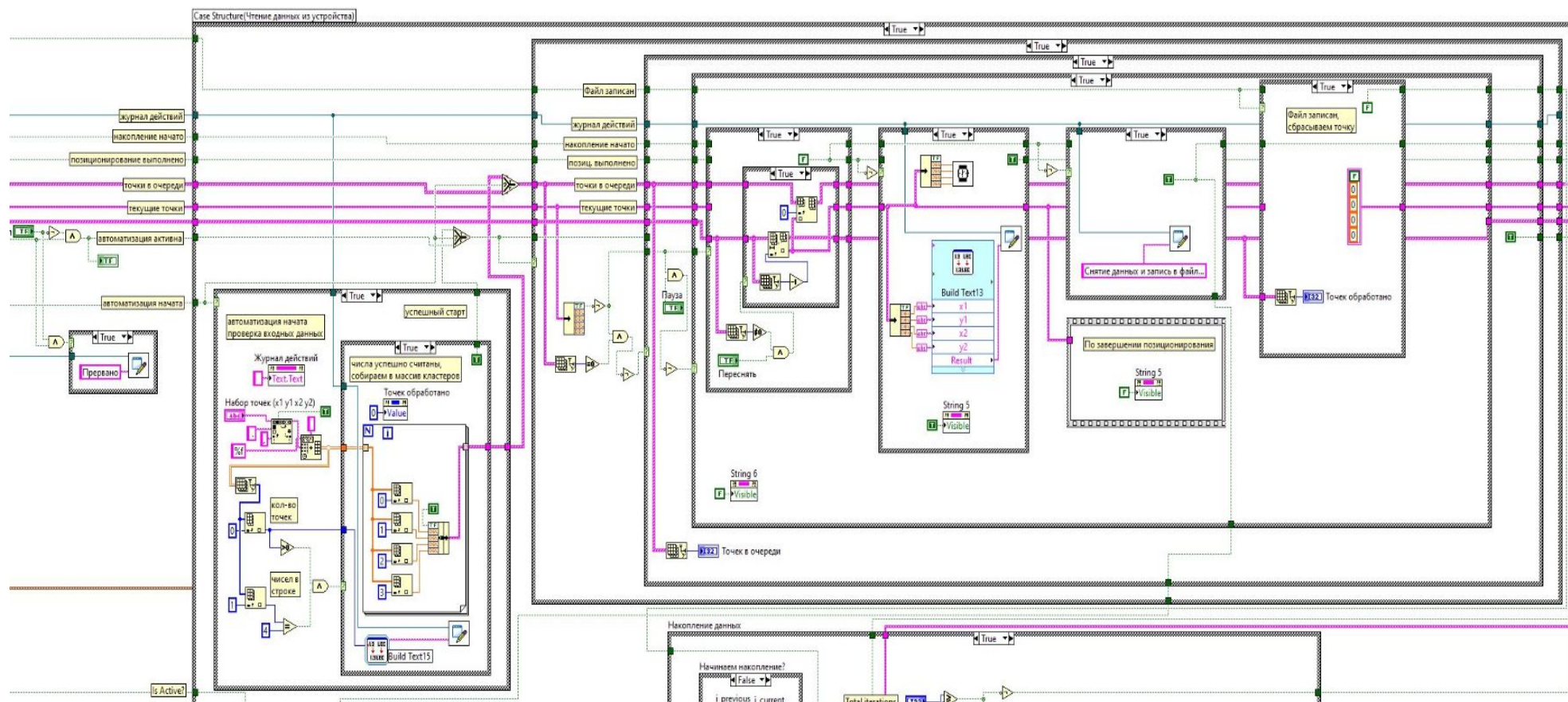
Automatic signal generation



Signal accumulation and averaging



Automation



Автоматизация

Старт Пауза Стоп

Переснять предыдущую точку

Исходные данные

Набор точек (x1 y1 x2 y2)

-100 -100 -100 -100
-100 -100 -100 -99.5
-100 -100 -100 -99
-100 -100 -100 -98.5
-100 -100 -100 -98

Точка возвращения

-100 -100 0 0

Журнал действий

Точек в очереди 0

Точек обработано 0

Данные для записи

Папка вывода

C:\Users\Oleg\Desktop\data

Формат имени файла

%X1 %Y1 %X2 %Y2.txt

