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Experiment 8

Aim: Introduction to optiperformer software & to study main features and GUI of optiperformer

Software Used: MATLAB R2024a

Theory:

It is a software tool that enables technical sales & marketing teams of component & system vendor to powerfully & cost effectively demonstrate their products.

The demonstration is carried out using design scenarios that accurately project performance characteristics of real system built using vendor component or subsystems by using optiperformer an application engineer can easily demonstrates the benefits of product or defines scenarios for the product without having to develop

Main features:

1) **GUI:** It controls the optical component layout component models & presentation graphics

2) **Mixed Signal representation:** Optisystem handles mixed signals probe for optical and electric signal using appropriate algorithms related to required simulation, accuracy & efficiency.

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iii) Quality & Performance Algorithm: In order to predict the system performance & optimize & calculate parameter such as BER & Q-factor using numerical analysis

Main Parts Of GUI:

- **Project layout:** The main working area that displays the layout of the project including component & connection
- **Perform Control:** It allows us to control the calculation process of the active project
- **Show Navigate** It allows us to view the list of file attachment included as part of the actual project
- **Parameter Setting** The parameter setting control allows us to view the list of global parameter created as the part of the active project.

Figure 3 Project Layout window

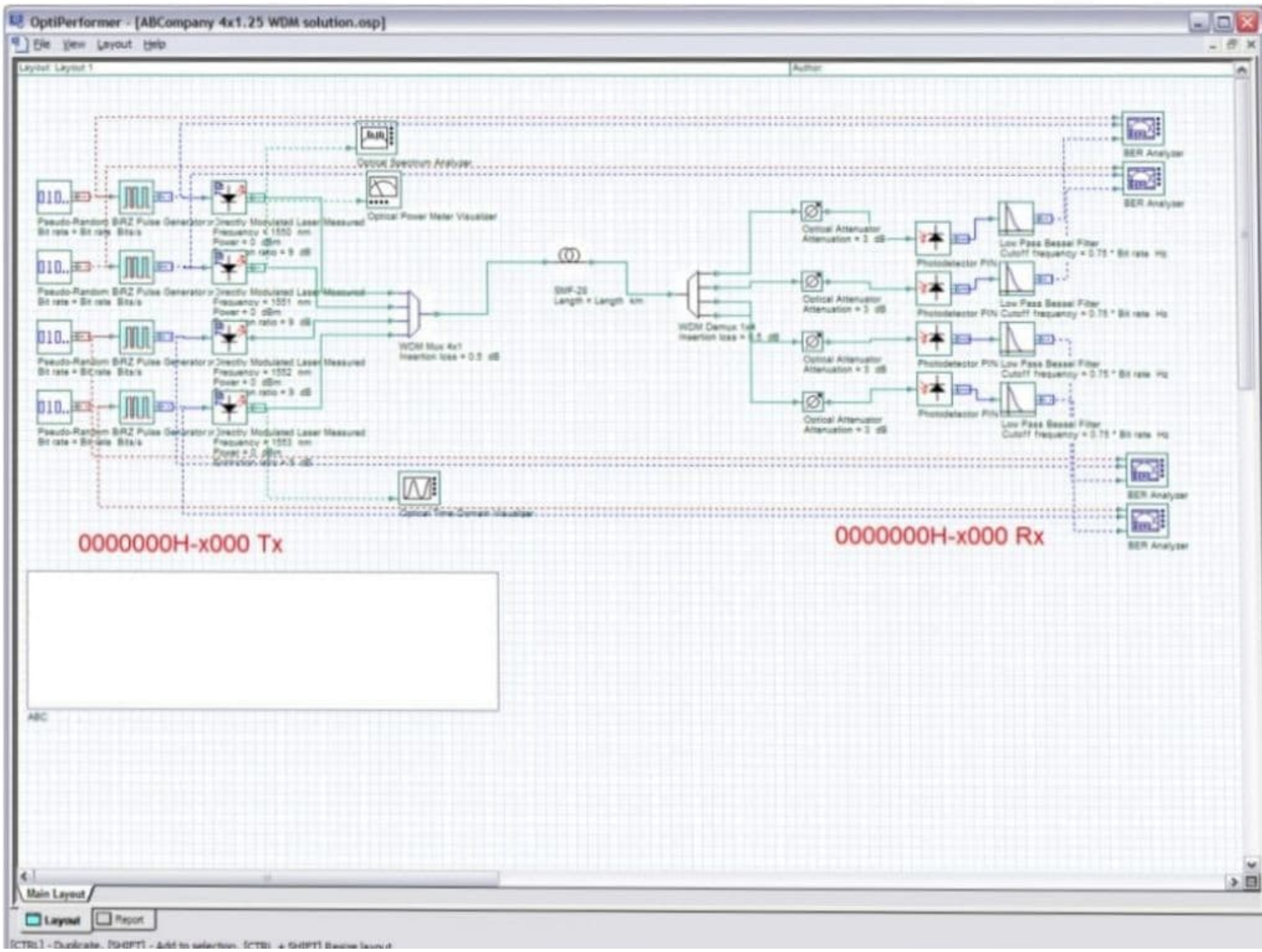

Figure 4 Perform Control (Calculation Control)

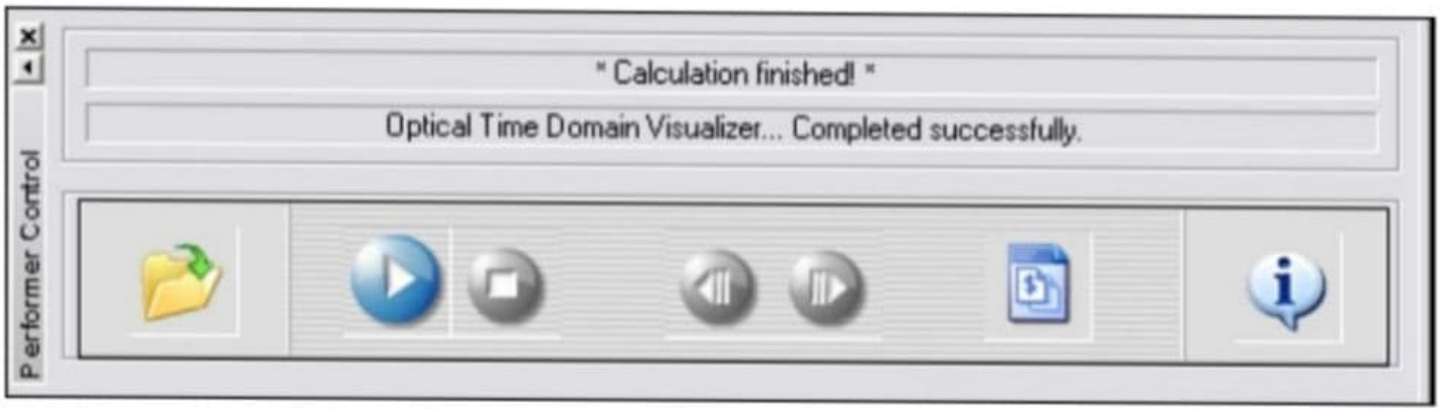

Figure 5 Show Navigate (File Display) control

Figure 6 Parameter Settings control

Figure 2 OptiPerformer graphical user interface (GUI)