

# NIDays

WORLDWIDE GRAPHICAL SYSTEM DESIGN  
**CONFERENCE**



# Introduction to LabVIEW Hands-On Seminar



NATIONAL INSTRUMENTS

# LabVIEW™

# National Instruments Vision

## Graphical System Design

### Test & Measurement



### Industrial & Embedded

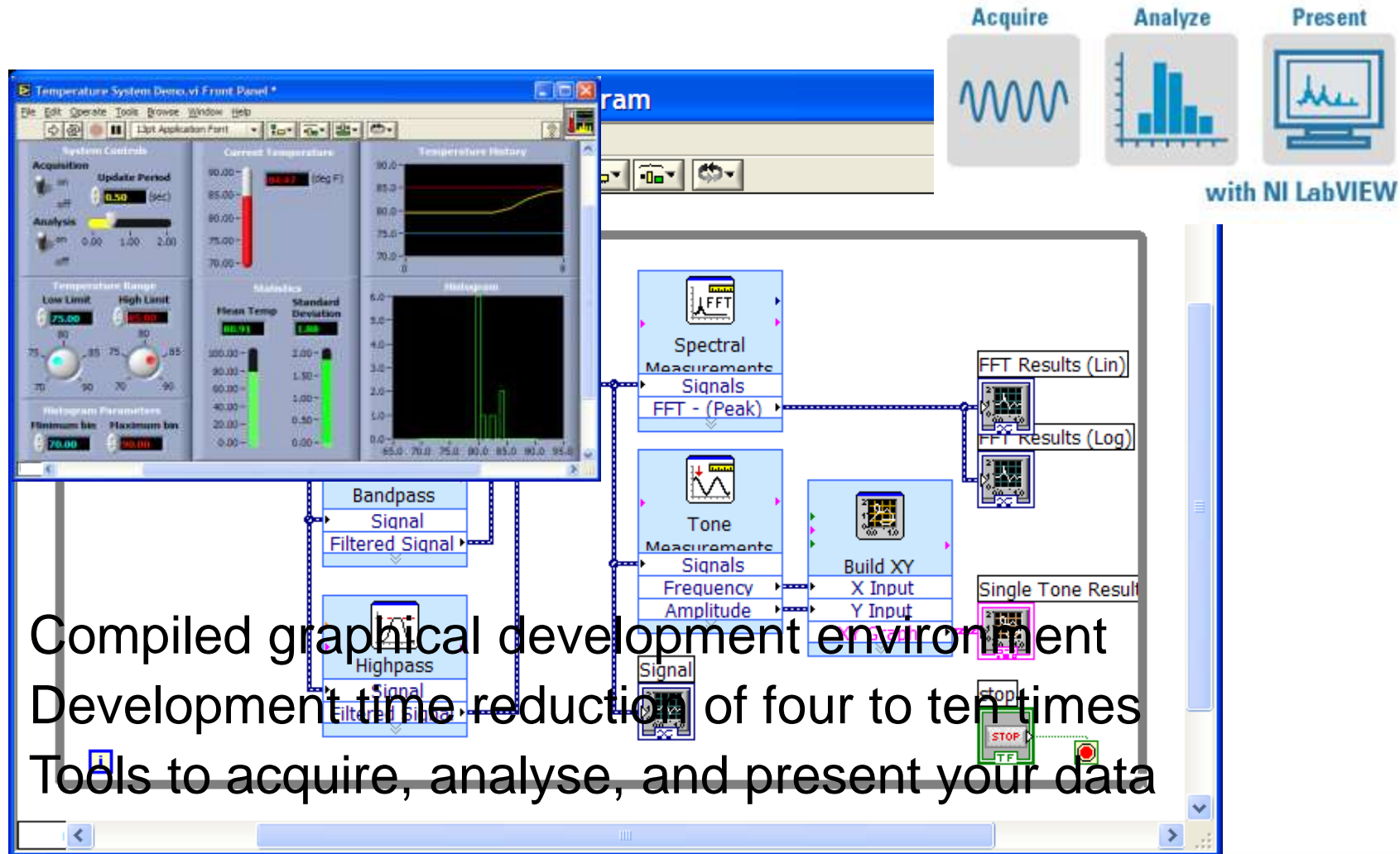


“To do for test and measurement what the spreadsheet did for financial analysis.”

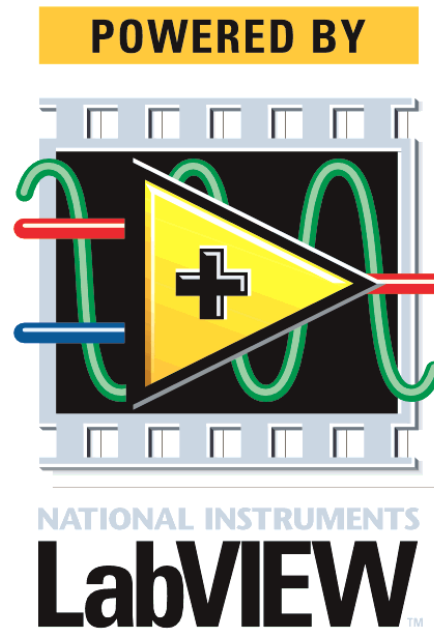
“To do for embedded what the PC did for the desktop.”

# Introduction to LabVIEW

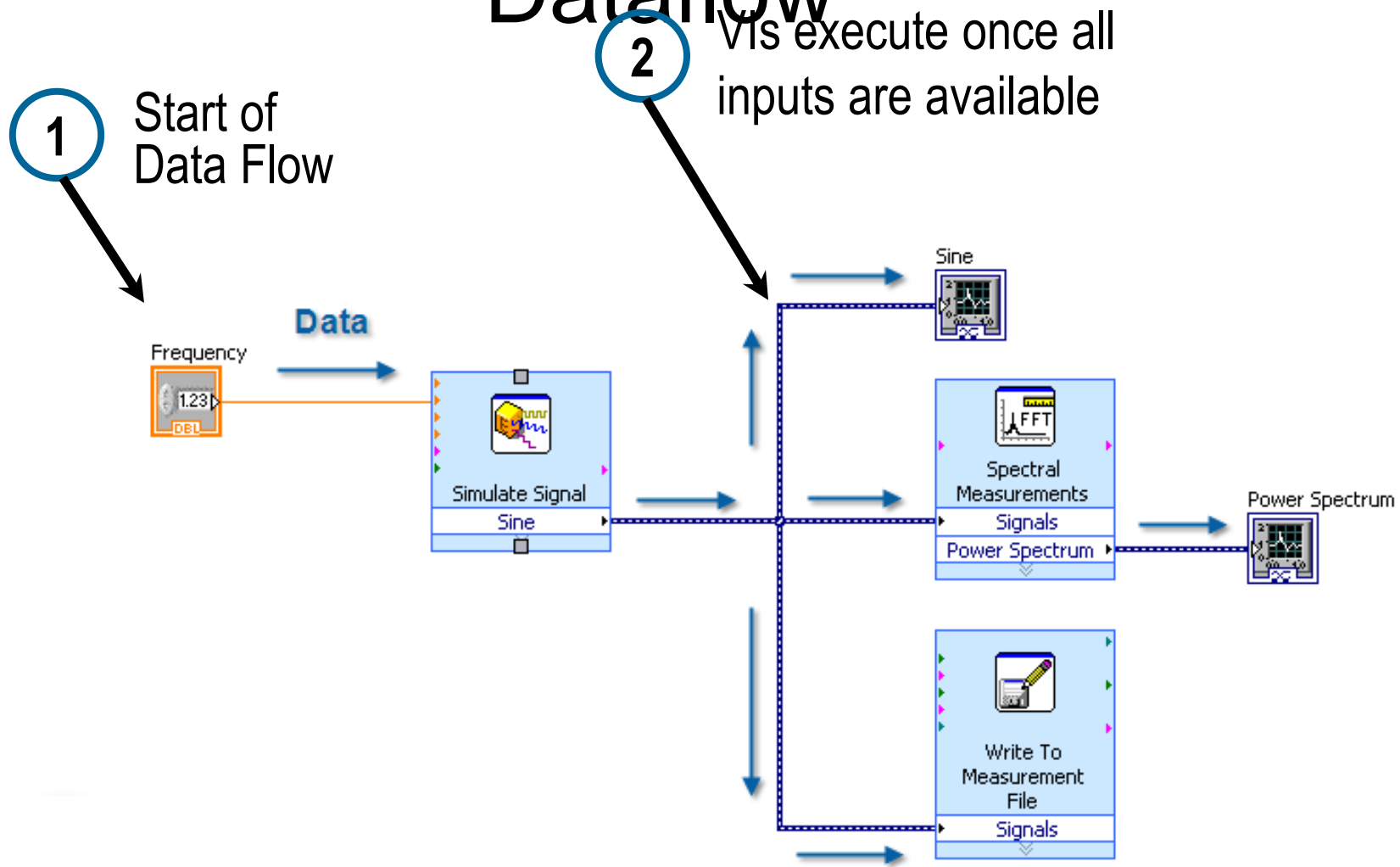
# LabVIEW Graphical Programming



# Demo 1: The LabVIEW environment

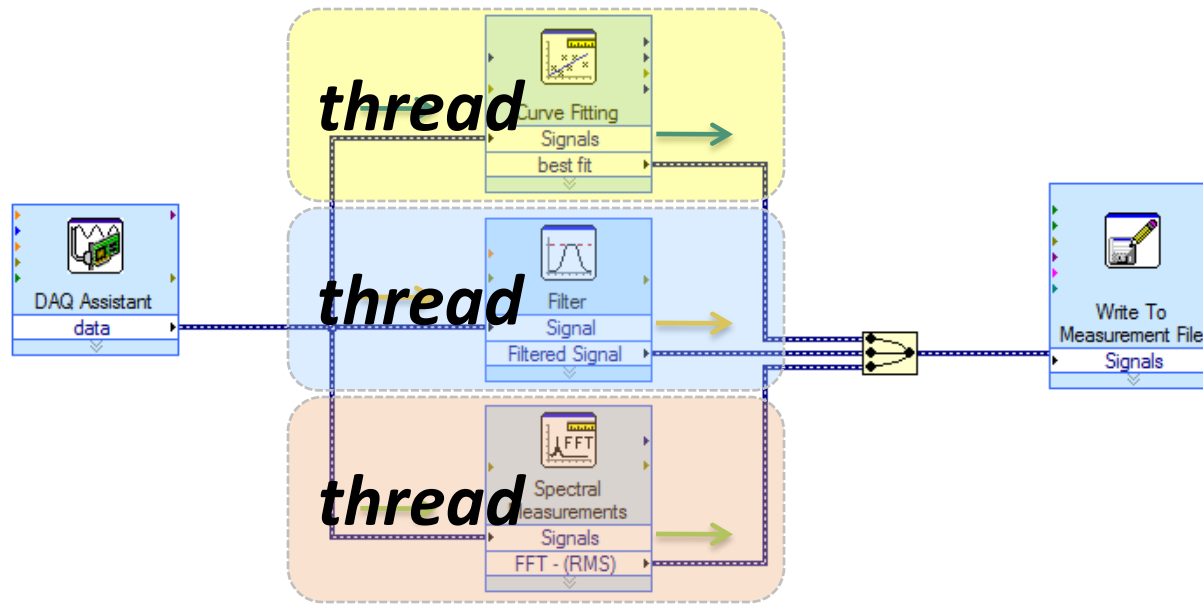


# Graphical Programming – Dataflow



# Automatic Multithreading in LabVIEW

- LabVIEW automatically divides each application into multiple execution threads
- LabVIEW introduced multithreading in 1998





# Exercise 1: Create a Simple LabVIEW VI

What you will learn:

- Working in the LabVIEW environment

Create an application that:

- Simulates data collection
- Displays data in a graph
- Does basic Analysis
- Writes Data to file



# Optional Exercise 2: Create a File Reader

What you will learn:

- Basic File I/O

Create an application that:

- Read data from a file
- Display it in graph

