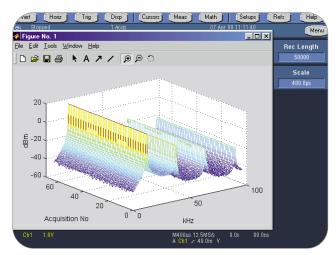


► TDS7000 Series Oscilloscopes

The TDS7000 Series DPO can easily perform numerical analysis and data processing with sophicated software applications in industry-standard Windows® environments.

Summary of Functions

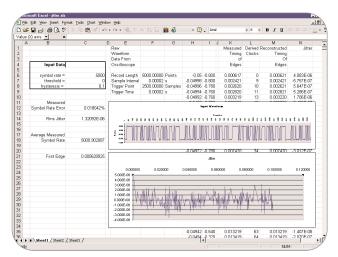
The open connectivity of the TDS7000 enables waveform data to be easily exported into application software such as MATLAB®, Mathcad® and Excel using copy/paste or import/export functions.



► Figure 1. Example of Excel.



► Application Brief



► Figure 2. Jitter analysis in Excel.

Jitter Analysis

Numerical processing such as jitter analysis can be easily performed using MATLAB, Mathcad and Excel data analysis tools based on the actual waveform read by the oscilloscope.

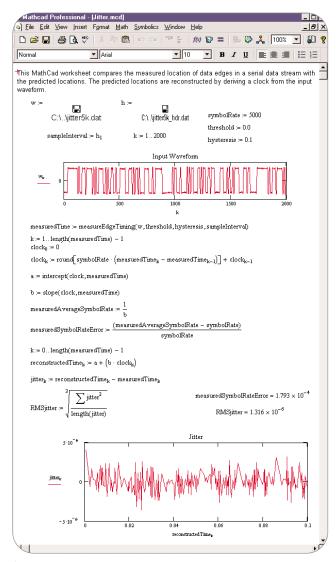
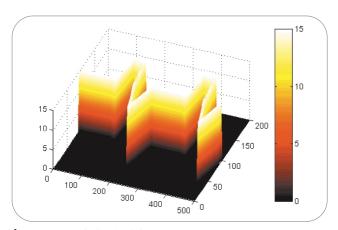
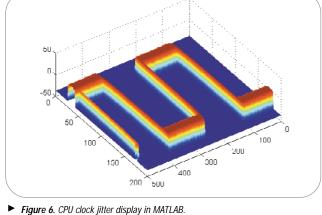


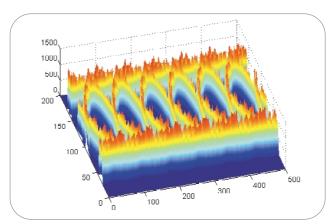
Figure 3. Jitter analysis in Mathcad.

► Application Brief

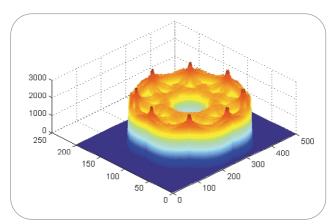


► Figure 4. 3-D display of DPO data in MATLAB.





► Figure 5. Communication Signal Eye diagram in MATLAB.



► Figure 7. DQPSK signal display in MATLAB.

Advanced Environments Including 3-D Display

Using MATLAB, data can be represented as a 3-D plot to provide more insight to signal analysis (Figures 4-7).

Easy-to-Use Operating Environment

The TDS7000 Series offers the option of a second display adapter and monitor that lets the user run the data analysis tool concurrently with the software.

► Application Brief



► TDS7054



► TDS7104



► TDS7404

For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

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