Processing Tons of Data with QuickView

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Outline

- Evolution of the QuickView software
- FYI
- Questions
Software Goals

① Provide eye-catching visuals (pretty pictures) of multiplex PDV data
Software Goals

① Provide eye-catching visuals (pretty pictures) of multiplex PDV data
② No analysis
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① Provide eye-catching visuals (pretty pictures) of multiplex PDV data
② No analysis FFTs
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③ Quick
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④ Lots of PDV signals
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⑤ Save plots (jpeg or pdf)
QuickView

1. Provide eye-catching visuals (pretty pictures) of multiplex PDV data
2. FFTs
3. Quick
4. Lots of PDV signals
5. Save plots (jpeg or pdf)
6. Split screen
   - Basic image exploration
     - Zoom in/out, pan
     - Cursor readout
     - Color table, contrast
QuickView
QuickView

Pixel Info: (X, Y, V) Z
QuickView

Pixel Info: (-160.5017, 0.30273, V) Z

Waveform of 18792_MPDV1-1-002
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This is great...but you know what would be nice...
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7. Velocity extraction
Velocity Extraction
Velocity Extraction
Velocity Extraction
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Pixel Info: (1.57, 20.94, 16228.5) -48.20
Velocity Extraction
Velocity Extraction

Pixel Info: (X, Y, V) Z
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Band-Pass Filtering
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Pixel Info : ( X, Y, V) Z
Band-Pass Filtering
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⑨ ROI Stats
ROI STATS

Pixel Info: (9.39, 18.63, 14438.25) -53.76
ROI STATS

Pixel Info: (9.28, 17.84, 13826) -51.41
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10. Switch vertical axes
Vertical Axis
Vertical Axis
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⑪ Legend (log file)
Legend
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Thanks for the Feedback

QuickView Information

- It will run with 2 GB of CPU memory (but more is better)
- Looks nice on a laptop (but larger is better)
- Written with MatLab (and toolboxes)
- View up to 320 PDV signals
  - 5 pages of 8 data sets ➔ 40 data files
  - If data are 4 × 2 multiplexed ➔ 320 PDV signals
Questions

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     - Color table, contrast
7. Velocity extraction
   - with no gaps
8. Band pass filtering
9. ROI Stats
10. Switch vertical axes
11. Legend (log file)
12. Voice commands
13. Analyze data without me

All formats so it can go into power point or pdf

Quick instantaneous