

PI ProcessBook & PI Active View

Brian Bostwick Dmicron Consulting

ProcessBook & ActiveView 2.3

- PB was release in August, 2002
- AV was released in February, 2003
- New Symbol Library
- Windows Certification



ProcessBook version 3.0

A rich set of new features are planned

- X-Y Plot Symbol
- Enhanced data presentation
- Module Database Integration
- Much more...

X-Y Plot

- Plot Tag vs. Tag
- Pair the X-Y data in various ways
- Interactively analyze the resulting plot
- Statistically analyze the data

X-Y Plot Data Sources

Plot Numbers or Strings from:

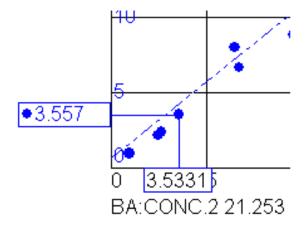
- Recorded Values in Pl
- Interpolated Values from PI
- Calculations or Summaries from PI
- Relational Database Queries

X-Y Pairing methods

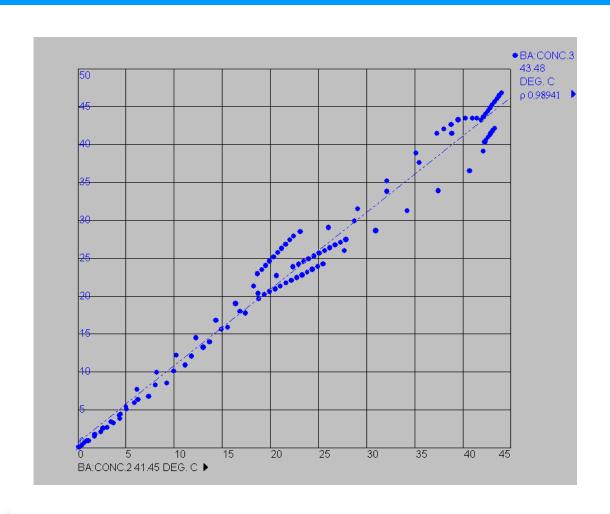
- X Data is recorded or interpolated data
- Y Data may be:
 - Paired with X data event by Time
 - Synchronize: query for Y using X times
 - Match: pair by time, exactly
 - Match or Previous: pair by time or use event just earlier
 - Match or Next: pair by time or use event just after
 - Paired with X data event by index:
 - Recorded: possibly time shifted
 - Interpolated: possibly time shifted

X-Y Plot Analysis

- Data Cursor via mouse and arrow keys
- Zoom and un-Zoom
- Linear Regression by Least Squares
- Statistics and raw data tables
- Ad-hoc trend



X-Y Plot Demo



Enhanced Data Presentation

Expose many PI 3 features by connecting to PI with the PISDK

- Local or PI Server based time
- Improved Tag Search Including Module Alias Search
- Single Sign-on through PI Trust

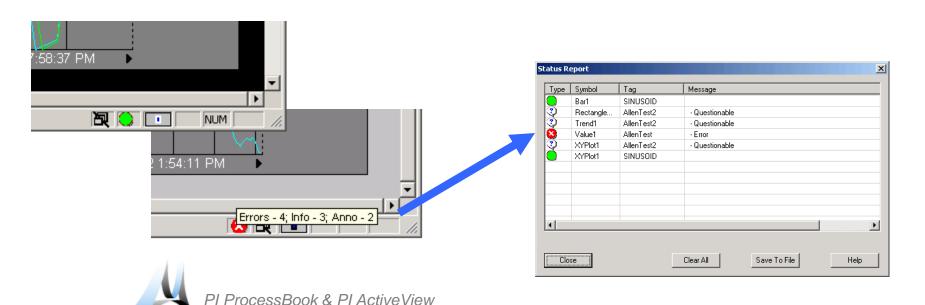
Data Presentation

- Sub-second timestamps
- String Tags
- Negative Integers
- Questionable and Substituted flags

Status Reporting

Report information to help diagnose problems in the current display

- Enumerates all dynamic symbols in the display
- Highlights the current status with an explanation.

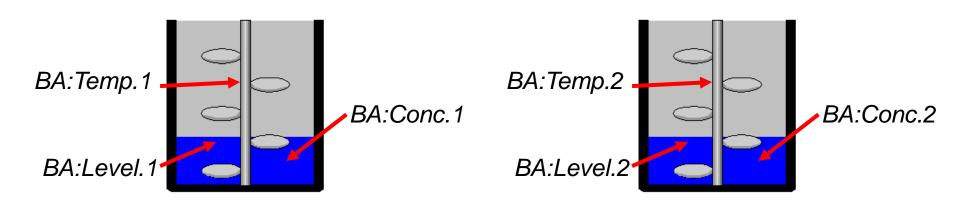


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Module Relative Displays

The Problem:

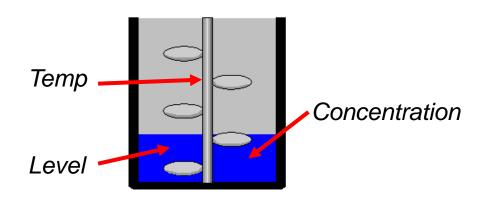
- A site has 100 units, exactly the same
- Need to monitor each one
- PB demands creating a display for each unit



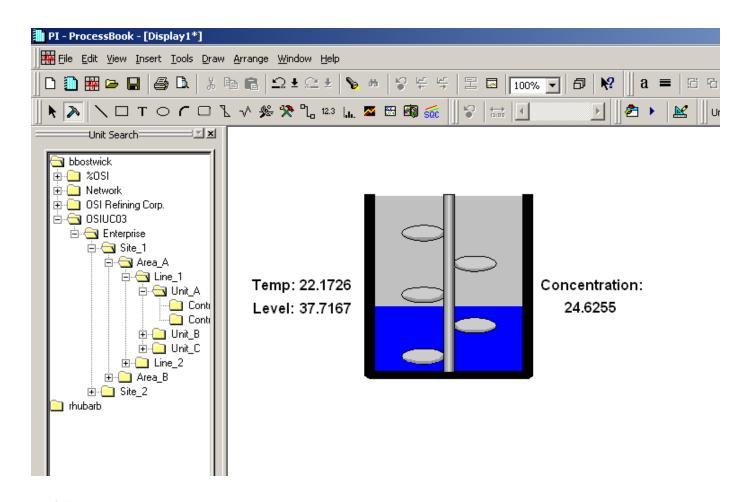
Module Relative Displays

The Answer:

- Define the units as modules with aliases
- Select a "template" unit
- Design the display using aliases from the "template"
- Shift the context from one unit to another
- One display can be used to monitor all 100 units



Demo

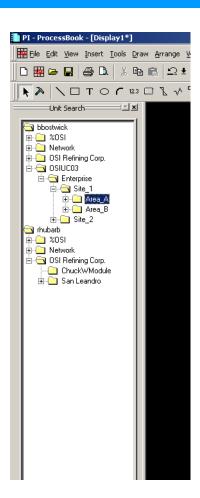


Further Enhancements

- SVG as a first class file format
- Multistate feature for Toolbox Symbols
- Backwards compatible file formats
- Layers
- Symbol to Symbol Connectivity

Automation Interface

- Layers
- Connectivity
- Dock-able windows
- Named Values
- Custom Datasets



PI Active View version 3.0

- Support for SVG format
- Improvements to streamline installation
- Integrated Export utility
- Simplified Cab Wizard

Wrap up

PI ProcessBook & PI Active View 3.0

A major version upgrade with compelling new features

- ProcessBook will Beta this summer
- ActiveView later this year



RtPM: Using knowledge of real-time events to take action and improve profits.