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AVEVA™ PI Vision™ performance

Best practices and remedies

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AVEVA

What are AVEVA™ PI Vision™ potential bottlenecks for performance?

- Client browser
- Network
- PI AF server
- PI data archive
- AVEVA PI Vision application
- Web server

PI AF related players

- Some PI AF attributes are calculated client side (at AVEVA PI Vision)
 - Analysis
 - Custom
 - Formula
 - String builder
 - URI builder

- Table lookup* (cached in memory at runtime)

PI data archive attention points

- High density of data in trends
 - Very frequent and variant data values in source point
 - Large time range
- Extensive usage of PI calculations
 - Tag-based: calculated at PI data archive
 - Asset-based: calculated at AVEVA PI Vision

What about some examples?

- Expensive analysis data reference calculation
 - `TagTot('PIPointAttribute', '*-1mo', '*')`
- Nested formulas
 - Formula: `'Attribute_1'+PIPoint'`
 - Attribute_1: `'Attribute_2'+PIPoint'`
 - Attribute_2: `'Attribute_3'+PIPoint'`
 - Attribute_3: `'Attribute_4'+PIPoint'`
 - ...

Demo time!

AVEVA

Show private displays

Home

Filter by Keywords


- All Displays
- Favorites
- My Displays
- Recent

Home


- Generic displays

Home (4)


Select all




Display AnalysisDR multiple values
PISCHOOL\student01



Display AnalysisDR single value
PISCHOOL\student01



Display TableLookupDR
PISCHOOL\student01



Formula attributes
PISCHOOL\student01



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Finally...

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Questions?

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