

Advanced PWS Programming



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Systems**

OVERVIEW



- **JavaScript Custom Support (1 hr)**
- **CGI Support (30 min)**
- **Browser Popup Windows (30 min)**

JavaScript Custom Support



- JavaScript
 - C like syntax
 - Dynamic typing
 - Evaluation not compilation
 - JSON best as interchange
- Html
 - Inline in <script> tags
 - Included as a file using src attribute in <script> tags
 - Always load plbwebuser.js for PL/B programs

JavaScript Custom Support

- PL/B Interaction
 - WINAPI invokes existing JavaScript functions
 - Can invoke functions in iframes
 - JsMakeString used to create JavaScript string
 - JsRun used to execute any JavaScript
- WINAPI using PWS
 - Execute JS functions
 - PROFILE using same basic syntax
 - PROFILE !JS, PlbApiTest, INT1, DIM

Exercise (1): Evaluate 'DoApi'



- Review DoApi
- Start DBGIFACE in LISTEN mode
- Use Browser URL to execute:
 - 'DoApi' Program using '-dr'
- GUI Debugger Break Points
 - 'DoInnerHtml'
 - 'DoApi'

Exercise (1): Continued

- Continue Execution To 'DoInnerHtml'
- Start Browser Debugger (F12)
 - Set Panel BG color to Green
 - Evaluate HTML
 - Evaluate JS

Exercise (2): Plbwebuser.js

- Add button to helloworld
- Execute 'testfunctieJS' function
 - Input parameter 'true', 'TRUE', and 'True'

CGI Support (30 min)

- CGI (Command Gateway Interface)
 - PWS Support added 9.8A
 - RUNTIME Object Method
 - Method 'cgistring'
 - Static HTTP Request Fields
 - User Get\Post Parameters
 - Keywords for Plbwebsrv.ini
 - PLBWEB_CGI_INFODIR=c:\temp (Required)
 - PLBWEB_CGI_KEEP=ON

CGI Support

- Evaluate Program 'DoCgi'
 - See:
 - c:\sunbelt\class2016\sunbelt\docgi
 - DoCgi
 - PLB program to demonstrate PWS CGI
 - DoCgiTest.html
 - Html web page with form to invoke 'DoCgi'

CGI Support



- Exercise (1)
 - Add Button to HelloWorld
 - Get URL User Parameter
 - Runtime 'cgistring' method
 - 127.0.0.1:8081/x.plc?name=Jane&address=1234
 - Display Parameters in LabelText

Browser Popup Window (30 min)

- Browser Windows Blocking
 - Avoid
 - Check With Alert
- Special Browser Sequence Required
 - User HTML Button Click
 - User Action
 - OnClick Event Function
 - OnClick Executed
 - window.open
 - Time Sensitive

Browser Popup Window

- How about PLB Operations
 - User Click Button
 - Button Click Function
 - CLIENT Object 'Open' method
- Evaluate Program 'DoPopup' (SunIDE)
 - DoPopup
 - popup.js

Exercise (1):

- Use Browser URL to execute:
 - 'DoPopup' Program using '-dr'
- Evaluate Browser Operations

Questions?

