z/TPF EE V1.1 z/TPFDF V1.1 TPF Toolkit for WebSphere® Studio V3 TPF Operations Server V1.2



IBM Software Group

TPF Users Group Spring 2007

TPF Toolkit updates

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Venue: Development Tools Subcommittee

AIM Enterprise Platform Software

IBM z/Transaction Processing Facility Enterprise Edition 1.1.0
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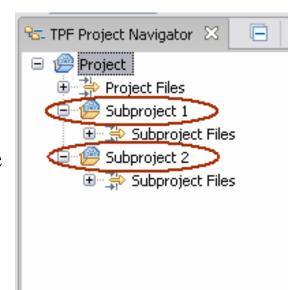
TPF Toolkit V3.2

- Target release 2Q 2007
- Based on Eclipse V3.2.2
- New features
 - Subprojects
 - TPF debugger views
 - Source Scan Tool
 - Web Services Tools
 - V05002, V06002S, V06007S
- Bug fixes



Subprojects

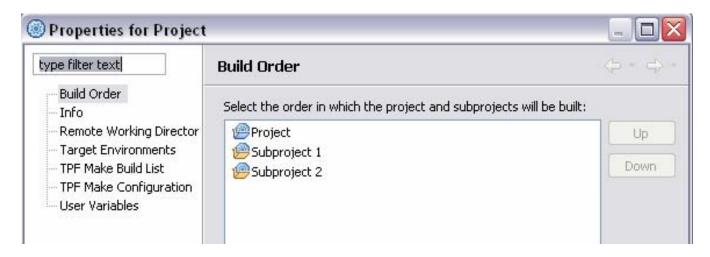
- Subprojects are projects with a parent project
- Relationship with parent project includes:
 - Parent project dictates the list of applicable Target Environments
 - Parent project dictates the current/active target environment
 - Parent project action propagates to all subprojects
 - Subproject can override Target **Environment settings**





Subprojects

- Custom actions just like project actions
- Build subprojects individually or build project to propagate build to all subprojects
- Build order is set at the project level





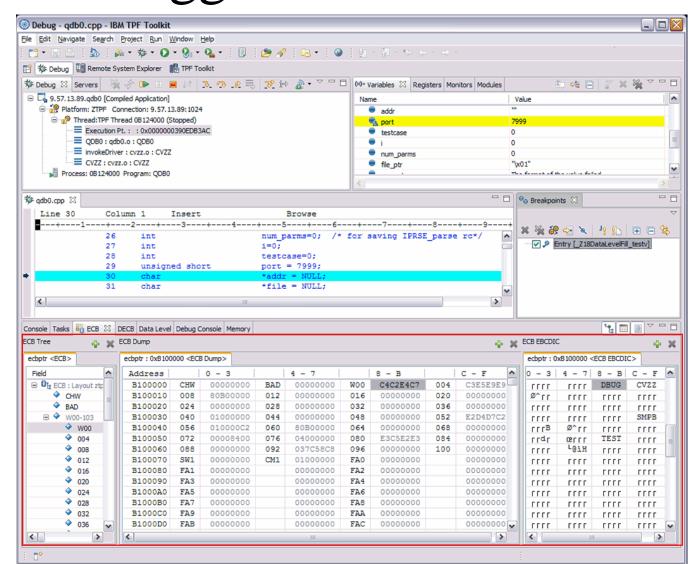
Subprojects

- How can you use subprojects
 - Use project to represent application, use subprojects to represent the subcomponents
 - Use one subproject for each module or shared object



TPF Debugger Views

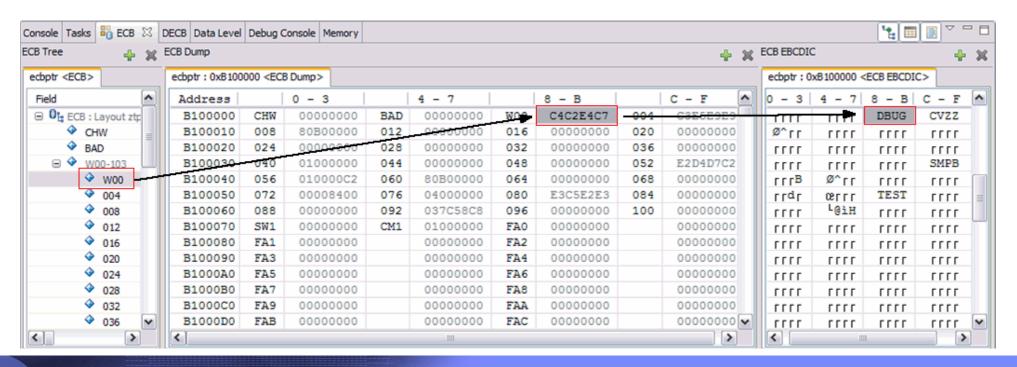
- V06007F
- New views:
 - ECB
 - Data Level
 - DECB
- XML files in TPFSHARE directory for mapping memory and customizing view display





ECB View

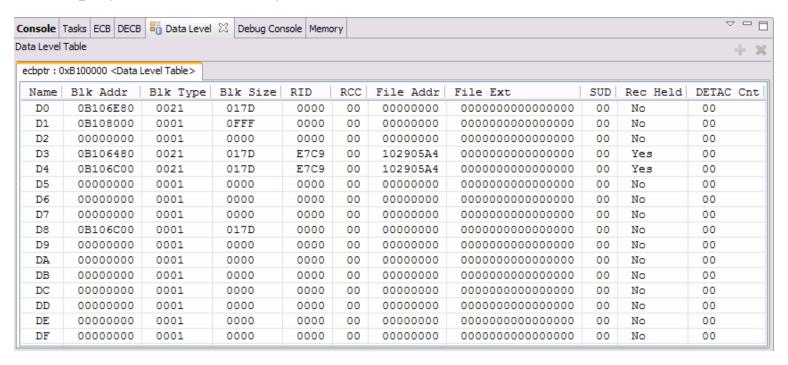
- Tree, Dump, and EBCDIC panes can be toggled on/off
- Panes are linked
- Backing XML file can be modified and reloaded on the fly





Data Level view

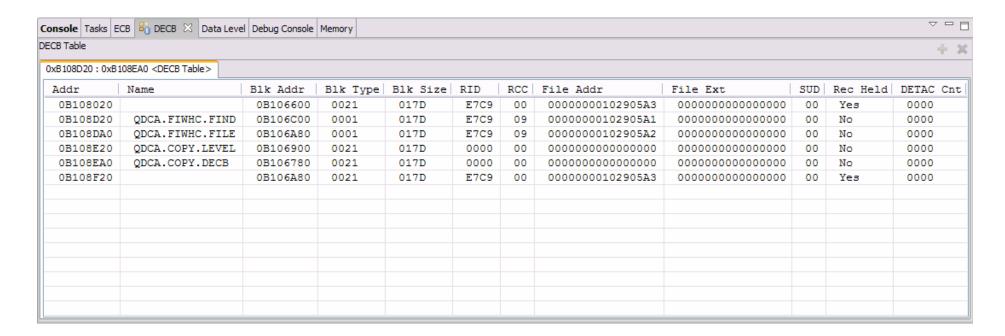
- Shows the contents of the 16 data levels.
- Backed by two XML files
 - XML memory map file to map memory for location
 - Display XML file for layout of the view





DECB view

- Contains information about the created DECBs
- Backed by two XML files
 - XML memory map file for location
 - Display XML file for layout of the view





TPF Debugger Views

- TPF Debugger APARs:
 - TPF 4.1 PJ31891
 - z/TPF PJ31890
- More views?
 - SW00SR (DF structure)
 - Data Level DETAC lists
 - DECB DETAC lists
 - Others?



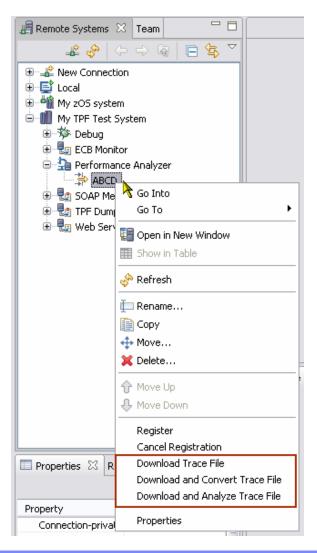
Source Scan Tools

- Based on existing Single Source Tools
- Scan projects/subprojects/filters/folders/files
 - Group rules for custom scans
 - Scan action on pop-up menu
- Validation
 - Tied to Target Environment settings
 - Re-scans files after changes saved in editor
- Create your own rules
 - Also provide fixes for errors flagged by rules
 - Scan with custom rules
 - Validate using custom rules
- Errors shown in Error List



Performance Analysis

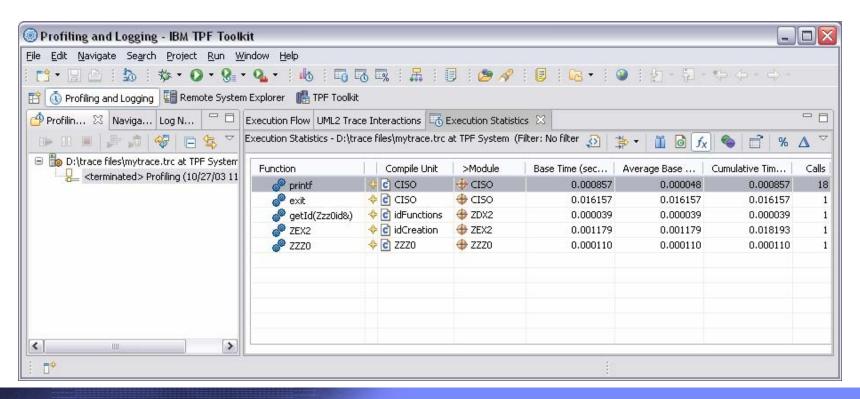
- New client to analyze trace files
 - Uses XML based trace file format
 - Converter to convert TPF trace file format to XML trace file
- Actions in RSE to download, convert and analyze trace files
- Action in Project Navigator to convert and analyze trace files





Performance Analysis

Documentation maps old PA client views to new views





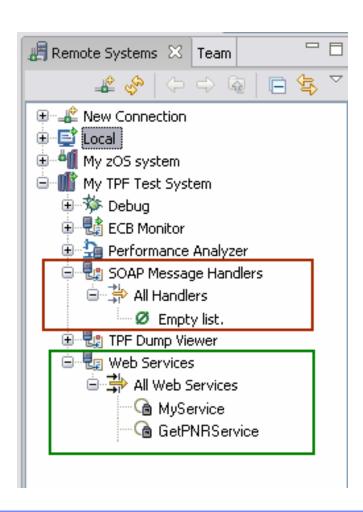
Web Services

- Wizards to help you create TPF Web Service resources
 - SOAP Message Handler Deployment Descriptors
 - Web Services Deployment Descriptors
 - WSDL file
 - Wrapper program template and makefile
- Actions
 - Deploy deployment descriptors to TPF
 - Generate wrapper program template and makefile
- Debug TPF Web Services



Web Services

- Two new subsystems in RSE
 - SOAP Message Handlers
 - Web Services
- List web services resources
 - Filter on TPF subsystem name
- Actions
 - Add
 - Remove
 - Deploy
 - Undeploy





Requirements

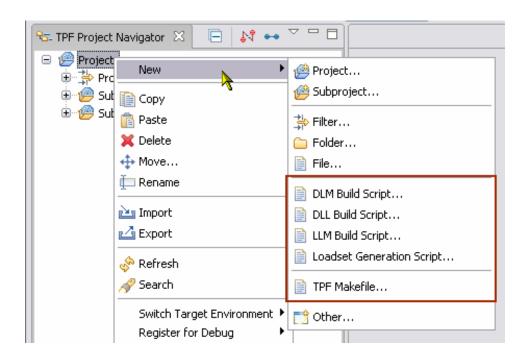
- V05002
 - From RSE, add files/folders to project or subproject
 - Create new project, subproject or filter during add





Requirements

- V06002S
 - Easier access to wizards to create new TPF Toolkit files

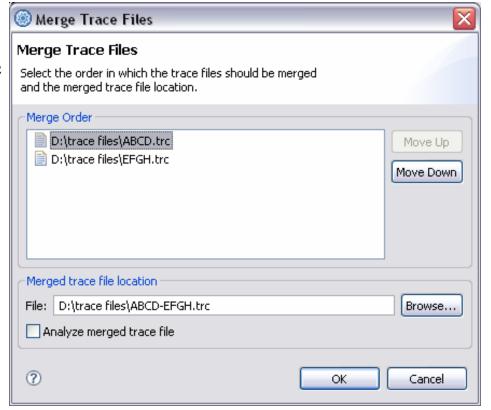




Requirements

• V06007S

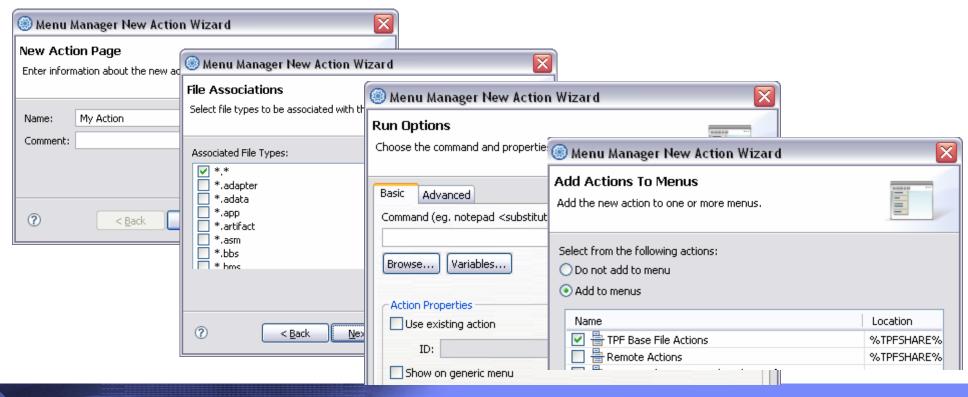
- New action to merge trace files
- Control order in which the trace files are merged
- Option to analyze the merged trace file after the merge





Menu Manager

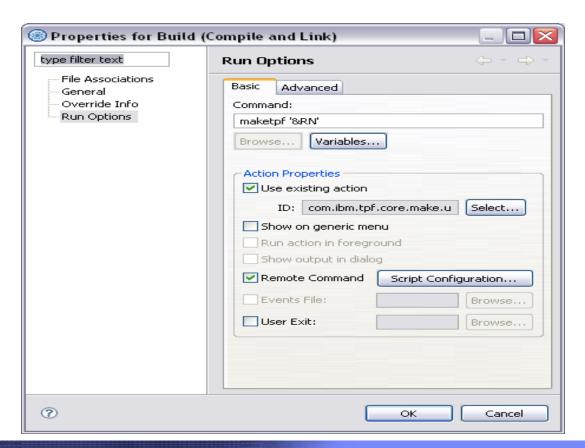
Multi-page wizards to guide you through action and menu creation





Menu Manager

Multi-paged UI for editing actions





MakeTPF

- Control files
 - New TIMESLICE column added to control file
 - PJ31515
 - Control files are now versioned
 - Version determines the number of columns and order of columns
 - TPF Toolkit shows all columns in control files and provides a graphical editor for control file entries
- Support for external project config file



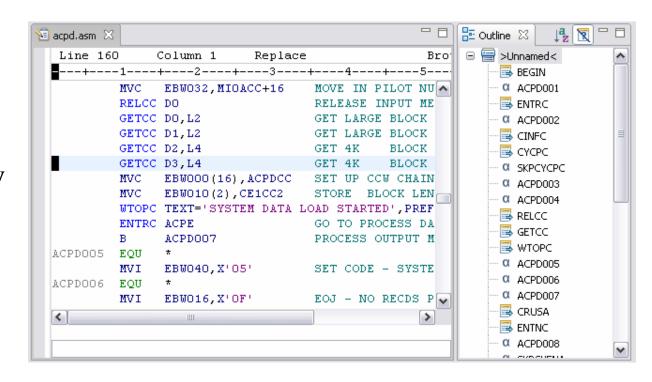
Editor

- C/C++ Editor
 - Create template directly from editor
 - Select text, right click, add as new template
 - Templates available for selection in content assist
 - Improved performance for content assist
 - Support for column limit
 - New Properties tab in editor to view current context for file



Editor

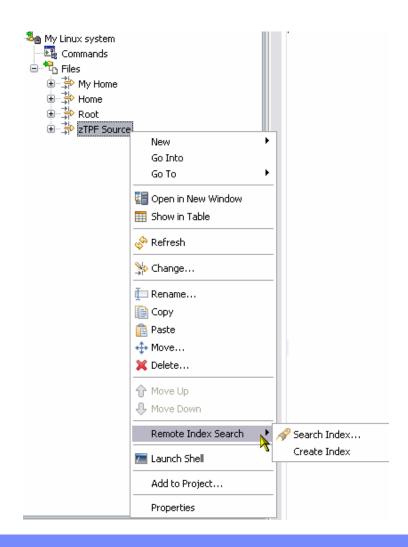
- LPEX Editor
 - Outline view for ASM files
 - Sections
 - Macros
 - Using domains
 - Symbols
 - Sort alphabetically or by occurrence
 - Filter editor viewby element inoutline view





Index Based Search

- Create token based index to speed up search
- Create index for entire application to speed up developer's research





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