

Open Front Ends

Nick Nickolov Morten Kromberg



Eclipse Plugin – Current Features

- Load functions stored in apl-files from eclipse project into interpreter workspace
 - At runtime renew interpreter workspace if changed content of eclipse project
- Launch local interpreter (or other executable), setting working directory and environment variables
- Connect to remote / running interpreter
- Execute APL function or interpreter command just after loading eclipse project
- Debugger (see next slide)
- Workspace Explorer
- Session console with command history for each interpreter.
- Open editor for function at cursor by pressing key combination
 Shift+Enter



Eclipse Debugger Features

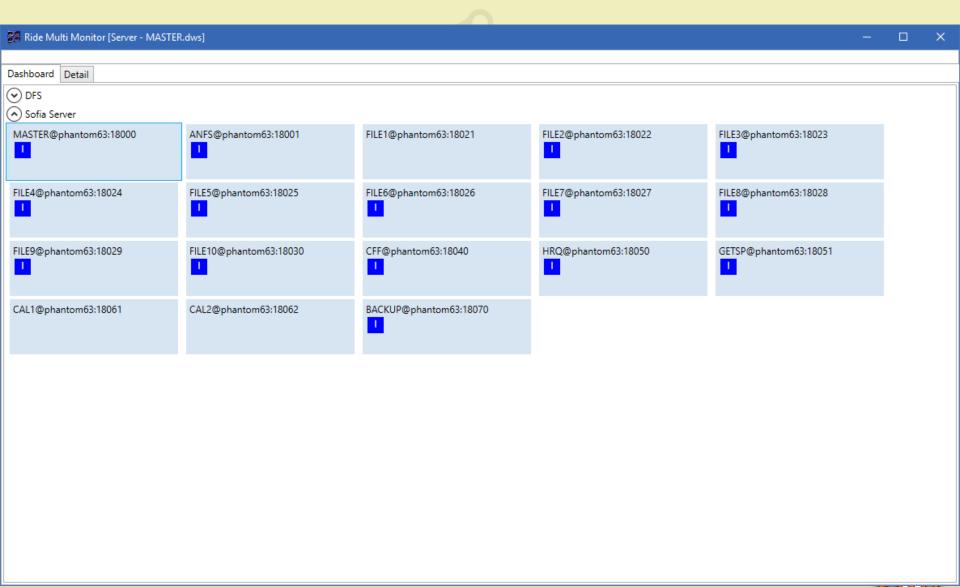
- List of launched or connected sessions, suspended threads and their's stack frames
- Standard functions for turing Suspend, Resume,
 Step Into, Step Over, Drop Frame, Step Return
- Indicating linebreakpoint and current instruction pointer in editor annotation ruler
- Variable view with a short textual representation of variables values
- Breakpoints manager which allow toggle all installed breakpoints or disable them

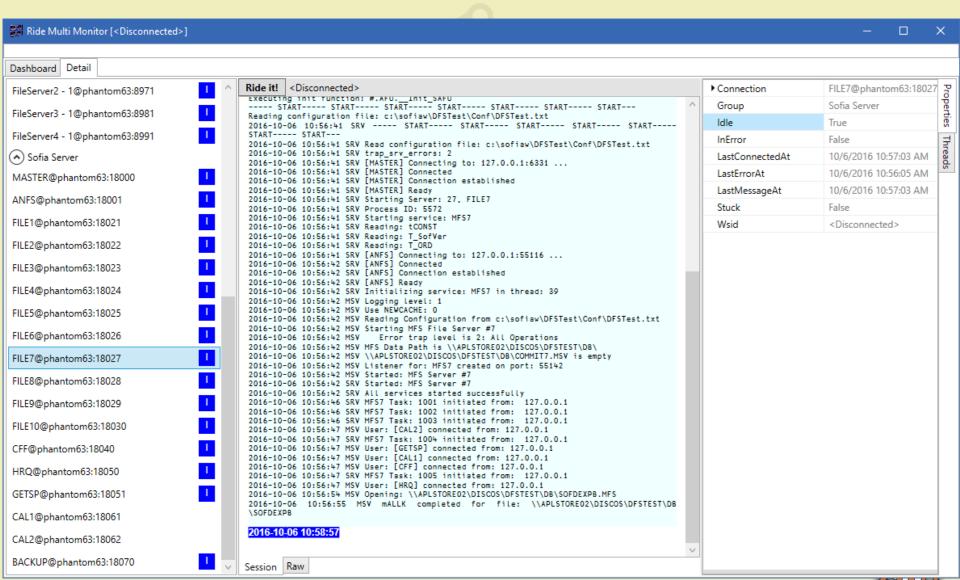


Eclipse Plugin – Planned Features

- Debugger support for functions from interpreter workspace
- Autocompletion proposals at runtime
- Import/export functions in eclipse project from/to dws-files
- Syntax coloring and validator for editor
- Code refactoring for renaming functions and variables



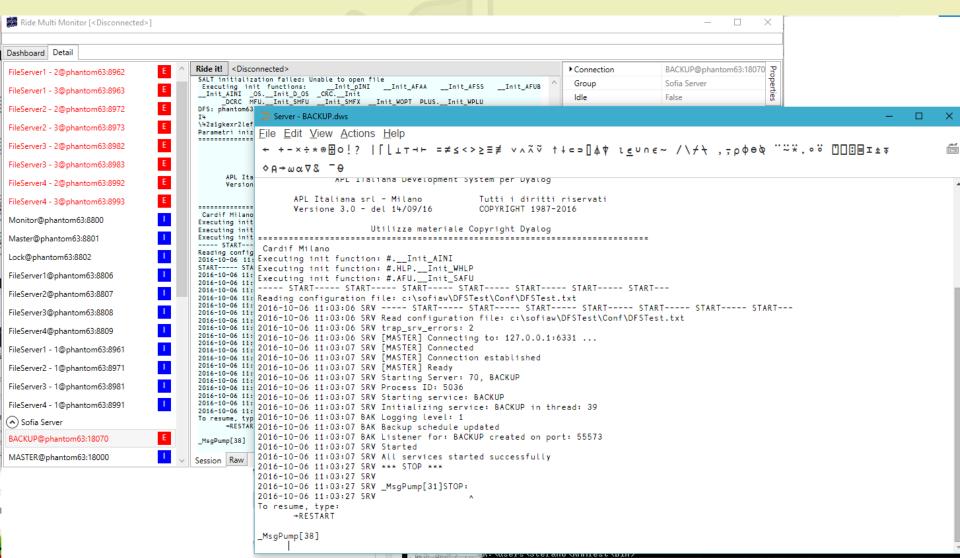








Ride Multi Monitor [Server - MASTER.	.dws]			-	×
Dashboard Detail					
◆ DFS					^
FileServer1 - 2@phantom63:8962	FileServer1 - 3@phantom63:8963	FileServer2 - 2@phantom63:8972	FileServer2 - 3@phantom63:8973	FileServer3 - 2@phantom63:8982	
FileServer3 - 3@phantom63:8983	FileServer4 - 2@phantom63:8992	FileServer4 - 3@phantom63:8993	Monitor@phantom63:8800	Master@phantom63:8801	
Lock@phantom63:8802	FileServer1@phantom63:8806	FileServer2@phantom63:8807	FileServer3@phantom63:8808	FileServer4@phantom63:8809	
FileServer1 - 1@phantom63:8961	FileServer2 - 1@phantom63:8971	FileServer3 - 1@phantom63:8981	FileServer4 - 1@phantom63:8991		
Sofia Server					
BACKUP@phantom63:18070	MASTER@phantom63:18000	ANFS@phantom63:18001	FILE1@phantom63:18021	FILE2@phantom63:18022	
FILE3@phantom63:18023	FILE4@phantom63:18024	FILE5@phantom63:18025	FILE6@phantom63:18026	FILE7@phantom63:18027	
FILE8@phantom63:18028	FILE9@phantom63:18029	FILE10@phantom63:18030	CFF@phantom63:18040	HRQ@phantom63:18050	
GETSP@phantom63:18051	CAL1@phantom63:18061	CAL2@phantom63:18062			~



RIDE 4.0 ToDo List

- Maintain upwards compatibility:
 APL 15+16 & RIDE 3&4
- Raspberry Pi Version
- Default IDE for Linux as well as macOS
- Zero footprint version
 - Start APL web server & point a browser at it
- Create ssh tunnel to connect to existing process

RIDE 4.0 ToDo List

- Indentical Formatting of Code ODE+RIDE
- Session search / fn within Class or NS
- Set options from RIDE
 - Single trace window
 - Pause on error
- Show Stack, Thread Menu
- AutoPW support



Layout Options – Vote?

- Floating Windows
- ODE style Docked
- "Golden"

