

TINE Studio News

Nov. 23, 2016

Instant Client

Make the Instant Client Great Again !

- It can do everything and now even more!
 - Sending structures to a server ...

The screenshot shows the Java Instant Client application window. The interface includes a menu bar (File, Options, Data Transfer, Monitor Options, Information, Help) and several configuration panels. The main configuration area includes dropdowns for Context (TEST), Subsystem (ALL), Server (SineServer), Device (SineGen0), and Property (SineInfo). It also features checkboxes for Stock Properties (checked) and Meta Properties (unchecked), a Data Size field (10), a Data Type dropdown (STRUCT), and a Timeout field (100). A central panel displays a list of data points under the heading "/TEST/SineServer/SineGen0 SineInfo @ 17:42:52.595". To the right of this list are buttons for "Read" and "Poll", and a "Draw Mode" section with a "Textbox" dropdown and checkboxes for "Autoscale", "Log Scale", "History", "Suggest Decorations", "Suggest Draw Mode", "Overlap", and "Input Pane". Further right is a table for "SineInfo" with columns "Field" and "Value", and a "Read Contents From Property" button. At the bottom, there is a "Post-Fix (TEXT Input)" section with radio buttons for "None", "LF", "CR", and "LF-CR". The status bar at the bottom indicates "Settings: UDP, Timer | Suppress Query Properties, Property Query Precedence".

Field	Value
amplitude	443.0
frequency	3.5
noise	55.0
phase	2.0
damping	25.0
description	new improved ...

```

/TEST/SineServer/SineGen0 SineInfo @ 17:42:52.595
(0,0) [0 -> amplitude] 338.0
(0,1) [0 -> frequency] 2.0
(0,2) [0 -> noise] 68.7294
(0,3) [0 -> phase] 0.0
(0,4) [0 -> damping] 10.0
(0,5) [0 -> description] Sine Generator 0 at your disposal
(0,6) [1 -> amplitude] 246.0
(0,7) [1 -> frequency] 1.0
(0,8) [1 -> noise] 96.175
(0,9) [1 -> phase] 1.7
(0,10) [1 -> damping] 25.0
(0,11) [1 -> description] Sine Generator 1 at your disposal
(0,12) [2 -> amplitude] 333.0
(0,13) [2 -> frequency] 1.0
(0,14) [2 -> noise] 32.5

```

TINE Studio Apps ...

- 'jaka web start'
 - Is being used and works like a charm
 - As long as there is no attention disorder in the .jnlp files
 - (href should point to itself).
 - Now *fully* documented ...
- Hiccups:
 - Starting same link via java web start overwrites the link
- New feature (all apps):
 - environment variable TINE_DEFAULT_CONTEXT is checked independent of the command line.

Archive Viewer

Make the Archiving Great Again !

Archive any compound data format :

The screenshot shows the Archive Viewer application window. The main window is titled "Archive Databases" and has a menu bar with "File", "Configurations", "Navigate", "Options", and "Help".

On the left, there is a "Database Entries" table with the following columns: Index, Active, Device Server, Device Name, and Device Property. The table contains 210 rows of data. Row 207 is highlighted in grey and has a yellow callout box pointing to it with the text "Format CF_ADDRESS (aka: CF_III)".

On the right, there is a configuration panel for the selected entry (Index: 207). It includes sections for "Data Collection Configuration" and "Property Viewing Configuration".

The "Data Collection Configuration" section includes:

- Context:** TEST
- Server:** SineServer
- Device:** SineGen0
- Property:** CantaYNoYores.MEMBERS
- Format:** NAME64
- Array Size:** 4
- Input Format:** NULL
- Data Input:** (empty field)
- Filtering of Data Storage:**
 - NEVER
 - ONCE
 - ALWAYS
 - FAST
 - SLOW
 - FIXTIME
 - HRT
 - STATUS
 - VOLATILE
 - NOPOI
 - TEST
 - EXTEST
- Access Rate:** 1000 ms
- Archive Heartbeat:** 36096 sec

The "Property Viewing Configuration" section includes:

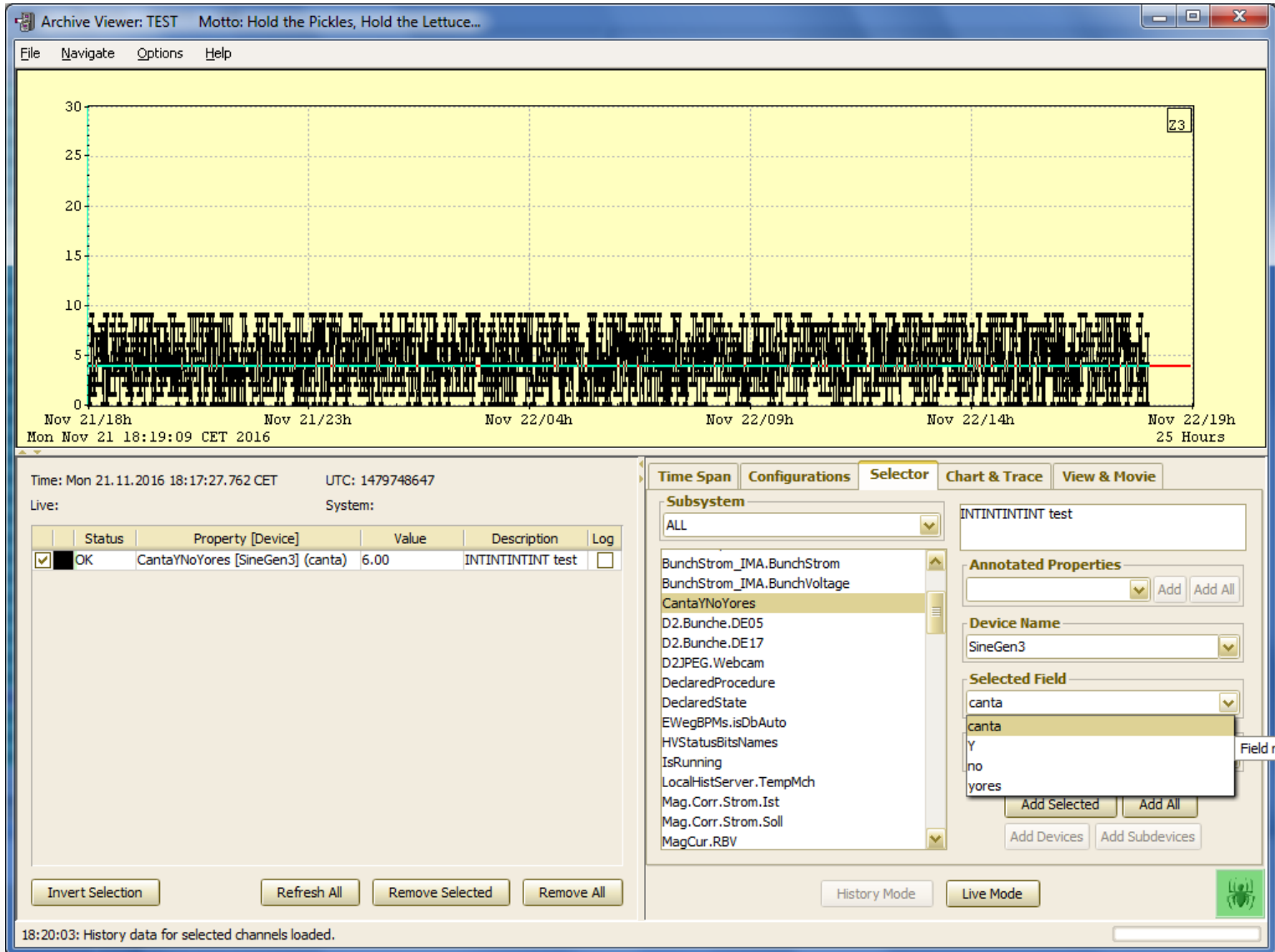
- Property:** CantaYNoYores.NAM.NAM,NAME64,4,,65000.0,0,0,0,0,0,LIN,1.0,0.0,INTINTINTINT field names,,,ALL
- Maximum size [bytes]:** 256
- Remaining elements:** 0
- Keyword:** iYNoYores.NAM.NAM
- Data Format:** NAME64
- Size:** 4
- Units:** (empty)
- Max:** 65000.0
- Min:** 0.0
- Abs. Tolerance:** 0.0
- Rel. Tolerance:** 0.0
- Plot Style:** LIN
- Offset:** 0.0
- Scale:** 1.0
- Description:** INTINTINTINT field names
- Subsystem:** ALL
- Associate:** (empty)

At the bottom of the window, there are buttons for "Reload DB", "Write DB", "Lock DB", and "DB unlo". A yellow callout box at the bottom center contains the text "Supply field 'names' with .NAM.NAM decoration ...".

Format CF_ADDRESS (aka: CF_III)

Supply field 'names' with .NAM.NAM decoration ...

Archive Viewer



Archive Viewer

Archive tagged structures :

The screenshot displays the Archive Database Manager interface. On the left, a table lists database entries with columns for Index, Active status, Device Server, Device Name, and Device Property. Entry 205 is highlighted. On the right, the 'Data Collection Configuration' window is open for index 205. The 'Structure Tag' dropdown is circled in red and set to 'SineInfo'. Below it, the 'Property Viewing Configuration' window shows the structure definition: 'SineInfo,STRUCT,10,,0.0,0.0,0.0,0.0,LIN,1.0,0.0,Sine Generator Information,Sine.MessageText.NAM,,A'. The 'Maximum size [bytes]' is 10 and 'Remaining elements' is 0. The 'Description' field contains 'Sine Generator Information' and 'Subsystem' is set to 'ALL'. The 'Associate' checkbox is checked, with 'Sine.MessageText.NAM' selected. At the bottom, there are buttons for 'Apply', 'Add', and 'Remove'.

Index	Active	Device Server	Device Name	Device Property
173	ENABLED	PETRA/EwegBPMs	M000	isDbAuto
174	ENABLED	PETRA/EwegBPMs	M000	isDbAuto.NAM
175	ENABLED	SineServer	#0	SineInfo
176	ENABLED	PETRA/Mag.Group.Corr-...	PeEX4.Corr	Psc.Status
177	ENABLED	PETRA/Mag.Group.Corr-...	PeEX4.Corr	GroupDevices
178	ENABLED	STATE	Pnotrunning	TIMECOUNTER.Procedure
179	ENABLED	STATE	Pnotrunning	TIMECOUNTER.Procedur...
180	ENABLED	STATE	Pnotrunning	BEAMCOUNTER.Procedure
181	ENABLED	STATE	Pnotrunning	TESTCOUNTER.Procedure
182	ENABLED	STATE	Pnotrunning	EVENTCOUNTER.Procedure
183	ENABLED	STATE	Pnotrunning	ERRCOUNTER.Procedure
184	ENABLED	ALARMSTATE	#0	ISREADY
186	ENABLED	ALARMSTATE	#0	NOTREADYRUNNING
187	ENABLED	ALARMSTATE	#0	DEVICES
188	ENABLED	ALARMSTATE	#0	NOTREADYCOUNT
189	ENABLED	LAB/VAC.ION_PUMP	#0	P
190	ENABLED	LAB/VAC.ION_PUMP	#0	P.NAM
191	ENABLED	LAB/VAC.ION_PUMP	#0	HV
192	ENABLED	LAB/VAC.ION_PUMP	#0	HV.NAM
193	ENABLED	LAB/VAC.ION_PUMP	#0	STATUS
194	ENABLED	LAB/VAC.ION_PUMP	#0	STATUS.NAM
195	ENABLED	STATE	name	DeclaredState
196	ENABLED	STATE	name	DeclaredProcedure
197	ENABLED	MVS/Data.Composites	#0	MassSpec.Header.Inc
198	ENABLED	MVS/Data.Composites	#0	MassSpec.Header.NAM
199	ENABLED	LocalHistServer	#0	TempMch
200	ENABLED	LocalHistServer	#0	TempMch.NAM
201	ENABLED	LocalHistServer	TempDevice5	TempMch
202	ENABLED	LocalHistServer	TempDevice5	TempMch.NAM
204	ENABLED	SineServer	SineGen0	CantaYNoYores
205	ENABLED	SineServer	SineGen0	SineInfo
207	ENABLED	SineServer	SineGen0	CantaYNoYores.MEMBERS
208	ENABLED	SineServer	SineGen6	SineInfo
209	ENABLED	REGAE/VAC.ION_PUMP	*	P
210	ENABLED	REGAE/VAC.ION_PUMP	*	P

Archive Viewer

Archive Viewer: TEST Motto: Hold the Pickles, Hold the Lettuce...

File Navigate Options Help

Time: Wed 23. Nov 2016 05:24:53.854 CET UTC: 1479875093
Live: System:

Status	Property [Device]	Value	Description	Log
OK	SineInfo [SineGen0] (amplitude)	338.00	Sine Generator Info...	

Invert Selection Refresh All Remove Selected Remove All

Time Span Configurations Selector Chart & Trace View & Movie

Subsystem: ALL

- RadMonIP.FLASH.WarningTimeSum
- Sine.MessageText
- SineInfo
- SineInfoLong
- SineServer.Sine
- SineServer1.Amplitude
- SineStruct
- single.TempMch
- Socket.BadResponses
- Socket.LateResponses
- Socket.MissedResponses
- STATECNT
- STATECNTB
- STATECNTERR
- STATECNTMS

Sine Generator Information

Annotated Properties

Device Name: SineGen0

Selected Field: amplitude

History Mode Live Mode

09:25:25: Array data for channel 'TEST/HISTORY/SineGen0/SineInfo' loaded.

Acop Spider News

ANTE Chopper Operating LINAC2

File Options Help

Betriebszustand

Chopper einschalten

Chopper in den Sparzustand schalten

Chopper ausschalten

Prepuls Ein

Hochspannung Ein

Gitter Ein

Heizung Ein

Lüfter Ein

Puls

Position Breite

Soll: 984.9597µs 984.9597E-6s Old store

-10ns -1ns -100ps +100ps +1ns +10ns

Timing

Volts

140 160 180 200

Tine Status Viewer

Active Links All Links Tarantula Messages Exceptions

Date/Time	Status	Message
Tue 22.11.2016 18:23:54.342 CET	success	/LINAC2/Chop.Power/FanP/State
Tue 22.11.2016 18:23:54.246 CET	success	/LINAC2/Chop.Par/Ht/CurrentTarget
Tue 22.11.2016 18:23:53.838 CET	success	/LINAC2/Chop.Par/Ht/CurrentAdjustmentActual
Tue 22.11.2016 18:23:53.838 CET	success	/LINAC2/Chop.Par/Ht/VoltageAdjustmentActual
Tue 22.11.2016 18:23:54.342 CET	success	/LINAC2/Chop.FanAnCo/Freq/ActualDisplay
Tue 22.11.2016 18:23:54.342 CET	success	/LINAC2/Chop.Par/Ht/CurrentActualDisplay
Tue 22.11.2016 18:23:54.342 CET	success	/LINAC2/Chop.Par/Ht/VoltageActualDisplay
Tue 22.11.2016 18:23:54.244 CET	success	/LINAC2/ChopperTraces/Timing/Trace.SCH
Mon 14.11.2016 15:36:40.878 CET	success	/LINAC2/ChopperTraces/Timing/Trace.REF
Tue 22.11.2016 18:23:54.342 CET	success	/LINAC2/Chop.Par/#0/NALARMS
Tue 22.11.2016 18:23:54.342 CET	success	/LINAC2/Chop.Par/Ht/CurrentActual
Tue 22.11.2016 18:23:54.342 CET	success	/LINAC2/Chop.Par/Ht/VoltageActual
Tue 22.11.2016 18:23:54.008 CET	success	/LINAC2/ChopperTiming/GEMEINSAM/Time
Tue 22.11.2016 18:23:54.008 CET	success	/LINAC2/ChopperTiming/PULSBREITE/Time
Mon 14.11.2016 15:36:42.250 CET	success	/LINAC2/ChopperTraces/Timing/ErrorString
Tue 22.11.2016 18:23:54.342 CET	success	/LINAC2/Chop.Par/Ht/VoltageTarget

Clear Refresh

Close Debug Debug level: 1 2 History

Acop Spider News

The screenshot shows the 'Tine Status Viewer' application window. It has a title bar with the text 'Tine Status Viewer' and a close button. Below the title bar is a tabbed interface with five tabs: 'Active Links', 'All Links', 'Tarantula', 'Messages', and 'Exceptions'. The 'Active Links' tab is selected, displaying a list of 25 entries. Each entry consists of a line number, a path, a timer name, a binding description, a frequency, and a value. The entries are as follows:

- 84] /LINAC2/Chop.Par/T2G2[CurrentActual] timer is bound to /LINAC2/Chop.Par/Ht[CurrentActual] (as an MCA element) @500 msec <0> (value : -0.0047252746)
- 85] /LINAC2/Chop.Par/T2G2[VoltageTarget] register is bound to /LINAC2/Chop.Par/Ht[VoltageTarget] (as an MCA element) @1000 msec <0> (value : -86.64225)
- 86] /LINAC2/Chop.Par/T2G2[VoltageActual] timer is bound to /LINAC2/Chop.Par/Ht[VoltageActual] (as an MCA element) @500 msec <0> (value : -85.76313)
- 87] /LINAC2/Chop.Par/T2G1[CurrentTarget] register is bound to /LINAC2/Chop.Par/Ht[CurrentTarget] (as an MCA element) @1000 msec <0> (value : 0.079743594)
- 88] /LINAC2/Chop.Par/T2G1[CurrentActual] timer is bound to /LINAC2/Chop.Par/Ht[CurrentActual] (as an MCA element) @500 msec <0> (value : 0.07915751)
- 89] /LINAC2/Chop.Par/T2G1[VoltageTarget] register is bound to /LINAC2/Chop.Par/Ht[VoltageTarget] (as an MCA element) @1000 msec <0> (value : 98.02198)
- 90] /LINAC2/Chop.Par/T2G1[VoltageActual] timer is bound to /LINAC2/Chop.Par/Ht[VoltageActual] (as an MCA element) @500 msec <0> (value : 36.874237)
- 91] /LINAC2/Chop.Par/Ht[CurrentTarget] register is bound to /LINAC2/Chop.Par/Ht[CurrentTarget] (as an MCA element) @1000 msec <0> (value : 20.996338)
- 92] /LINAC2/Chop.Par/Ht[CurrentActual] timer is bound to /LINAC2/Chop.Par/Ht[CurrentActual] (as an MCA element) @500 msec <0> (value : 19.13553)
- 93] /LINAC2/Chop.Par/Ht[VoltageTarget] register is bound to /LINAC2/Chop.Par/Ht[VoltageTarget] (as an MCA element) @1000 msec <0> (value : 6.0805864)
- 94] /LINAC2/Chop.Par/Ht[VoltageActual] timer is bound to /LINAC2/Chop.Par/Ht[VoltageActual] (as an MCA element) @500 msec <0> (value : 5.870574)
- 96] /LINAC2/ChopperTraces/Timing[Trace.SCH] timer @1000 msec <0> (500 values read)
- 97] /LINAC2/ChopperTraces/Timing[Trace.REF] timer @1000 msec <0> (500 values read)
- 119] /LINAC2/Chop.Par/#0[NALARMS] timer @1000 msec <0> (5 values read)
- 122] /LINAC2/Chop.Par/Ht[CurrentActual] timer @500 msec <0> (7 values read)
- 126] /LINAC2/Chop.Par/Ht[VoltageActual] timer @500 msec <0> (7 values read)
- 127] /LINAC2/ChopperTiming/GEMEINSAM[Time] timer @1000 msec <0> (value : 9.849596999999901E-4)
- 128] /LINAC2/ChopperTiming/PULSBREITE[Time] timer @1000 msec <0> (value : 8.0E-8)
- 133] /LINAC2/ChopperTraces/Timing[ErrorString] timer @1000 msec <0> (32 values read)
- 134] /LINAC2/Chop.Power/PRremote[State] timer is bound to /LINAC2/Chop.Power/FanP[State] (as an MCA element) @1000 msec <0> (value : 2)
- 135] /LINAC2/Chop.Par/T2G1[CurrentAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[CurrentAdjustmentActual] (as an MCA element) @1000 msec <0> (v
- 136] /LINAC2/Chop.Par/T1G2[CurrentAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[CurrentAdjustmentActual] (as an MCA element) @1000 msec <0> (v
- 137] /LINAC2/Chop.Par/T1G1[CurrentAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[CurrentAdjustmentActual] (as an MCA element) @1000 msec <0> (v
- 138] /LINAC2/Chop.Par/Ht[CurrentAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[CurrentAdjustmentActual] (as an MCA element) @1000 msec <0> (valu
- 139] /LINAC2/Chop.Par/HV2[CurrentAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[CurrentAdjustmentActual] (as an MCA element) @1000 msec <0> (va
- 140] /LINAC2/Chop.Par/HV1[CurrentAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[CurrentAdjustmentActual] (as an MCA element) @1000 msec <0> (va
- 141] /LINAC2/Chop.Par/T2G2[CurrentAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[CurrentAdjustmentActual] (as an MCA element) @1000 msec <0> (v
- 142] /LINAC2/Chop.Par/Ht[VoltageAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[VoltageAdjustmentActual] (as an MCA element) @1000 msec <0> (valu
- 143] /LINAC2/Chop.Par/T1G1[VoltageAdjustmentActual] register is bound to /LINAC2/Chop.Par/Ht[VoltageAdjustmentActual] (as an MCA element) @1000 msec <0> (v
- 144] /LINAC2/Chop.Par/Ht[VoltageTarget] timer @1000 msec <0> (7 values read)
- 145] /LINAC2/Chop.Par/HV2[VoltageTarget] register is bound to /LINAC2/Chop.Par/Ht[VoltageTarget] (as an MCA element) @1000 msec <0> (value : 15159.952)
- 146] /LINAC2/Chop.Par/HV2[VoltageActual] timer is bound to /LINAC2/Chop.Par/Ht[VoltageActual] (as an MCA element) @500 msec <0> (value : 14857.144)
- 147] /LINAC2/Chop.Par/T1G2[CurrentTarget] register is bound to /LINAC2/Chop.Par/Ht[CurrentTarget] (as an MCA element) @1000 msec <0> (value : -0.006871795)
- 148] /LINAC2/Chop.Par/T1G2[CurrentActual] timer is bound to /LINAC2/Chop.Par/Ht[CurrentActual] (as an MCA element) @500 msec <0> (value : -0.004285714)
- 149] /LINAC2/Chop.Par/T1G2[VoltageActual] timer is bound to /LINAC2/Chop.Par/Ht[VoltageActual] (as an MCA element) @500 msec <0> (value : -83.711845)

At the bottom of the window, there are several controls: a 'Clear' button, a 'Refresh' button, a 'Close' button, a 'Debug' checkbox, a 'Debug level:' label with radio buttons for '1' (selected) and '2', and a 'History' button.

jaws documentation

jaws -help

--- Description ---

Jaws can be used as a replacement for Java WebStart. It was designed to be able to use the same jnlp, which are also used by Java WebStart. When started, use needs to provide the url to the jnlp file, which should jaws should open. All resources that are listed in the jnlp file will be downloaded to a local cache and after that the application will be started using the downloaded resources and other information provided in the jnlp file.

If the local cache already contains resources that are the same or newer than the ones referenced by jnlp file, those resources will not be downloaded; instead the existing ones from the cache will be used.

In case that resources are shared among different applications and that at least one application is currently running while jaws requires to download a newer version of the resource, the already running application will not be disturbed. Instead the newer version of the shared resource will be cached at a different location and the application that is being started will use the newer version, while the already running application can continue to use the previous version. After the running application is restarted it will also use the newer version of the resource.

--- Supported JNLP parameters ---

Jaws recognizes the following tags and attributes of the JNLP files. For more description on what a particular tag means, please consult the JNLP specification document:

<https://docs.oracle.com/javase/tutorial/deployment/deploymentInDepth/jnlpFileSyntax.html>

<jnlp>	the main tag which describes that it is a JNLP file
codebase	the base location where to look for resources
href	the path of the jnlp file relative to the codebase (full path of the jnlp file is forwarded to the started

....