DataAccess 9.0 Quick Start

Introduction

Point-and-Click Interface

DataAccess provides a point-and-click interface for Microsoft Excel, Systat Software SigmaPlot, and WaveMetrics IGOR Pro. This Quick Start describes how to use the pointand-click interface.



Programming Interface

DataAccess provides a programming interface for Microsoft Excel, Microsoft Visual Basic, Systat SigmaPlot and WaveMetrics IGOR Pro. Using the programming interface, you can write your own data analysis scripts. Programming information is provided in the programmer's reference manual, ProgrammersReference.pdf. The manual is in Adobe Acrobat format. For more information about Adobe Acrobat, see the Adobe Web site at http://www.adobe.com.

Microsoft Excel

To use the point-and-click interface to DataAccess, execute a macro written in Visual Basic for Applications. A complete Excel workbook containing the required declarations is supplied:

File format	Workbook	Macro
Axon Abf	ABFXL.xls	ABFImport
Axon atf	ATFXL.xls	ATFImport
Bruxton Acquire	AcquireXL.xls	AcquireImport
CED SON	SONXL.xls	SONImport
HEKA PatchMaster	PatchMasterXL.xls	PatchMasterImport
HEKA Pulse	PulseXL.xls	PulseImport

Load the specified workbook by opening it using "File: Open". Execute the specified macro using the menu item "Excel Tools Macro". A dialog will appear to allow you to select the data to import. The dialog depends on the type of data file.

C:\Axon\Data\03516000.abf	
Parameters	Import
Created: 5/16/2003 5:01:39 PM Creator: AXENGN 2.0.2.6 Mode: Clampex Sampling interval: 100µs	Cancel Section
Stimulus 1: Epochs Stimulus 2: Epochs	<u>H</u> elp
Episodes <u>C</u> ha	innels
1 0.0000003 2064 2 0.2064003 2064 3 0.4128003 2064 4 0.6192003 2064 5 0.8256003 2064 6 1.0320003 2064 7 1.2384003 2064 9 1.4449003 2064 9 1.4449003 2064	IN 0 A IN 1 A IN 1 A Stimulus 1 Stimulus 2 IV Ime C Tags
r uga	
Duration (s): 0.2063 Samples: 20	64
	worthernesserver

Select the data to import. In general, data is arranged hierarchically. For example, you might select the sweep to import, and the dialog will list all the segments for that sweep. You select the segment, and the dialog lists all the data for that segment. You then choose the channels to import.

In general, you can choose any combination of channels to import. Depending on the type of file and on the data in the file, you may be able to select multiple episodes or sweeps.

You can limit the amount of data imported by moving the vertical lines in the "Data" display using the mouse. Moving the lines to the edge of the display disables the section. For more precise control over the amount of data imported, use the "Section" button. A dialog will appear that allows you to set exact section start and end times.

Section			×
🔽 Enable			OK
Start (s): 0.010	86 End (s): 0.02658	of 0.03026	Cancel
Sample: 543	1329	of 1513	Help

The data will be imported into the first worksheet of the workbook. To change the way in which data is imported, edit the macro definition or create a new macro. For detailed information, see the DataAccess manual.

To use the script interface to DataAccess from Excel, use Visual Basic for Applications. For information about how to use the Visual Basic for Applications interface, see the DataAccess programming manual.

Systat Software SigmaPlot

To use DataAccess, use "File: Import" on the menu. When the file selection dialog appears, choose the type of import filter you want under "Files of Type". The import filters for DataAccess appear at the bottom of the list.

Import File				<u>?</u> ×
Look in:	🔁 Data		- 🖬 😁 🖃	
	1926054.abf	🛤 03516007.dat	🔊 03o24001.abf	N 🖸
1	101d14000.abf	🖺 03529000.abf	🖹 4level.abf	50 💌
History	🔊 03516000.abf	🖺 03616000.abf	💌 4level.dat	🔊 🖾
	🔊 03516001.abf	🖺 03n17007.abf	🖹 Annotations.abf	S C 2
	🔳 03516001.dat	🖺 03n17008.abf	🖹 av1.abf	💌 de
Desktop	🔊 03516002.abf	🖺 03n17009.abf	🛤 av1.dat	📐 de
1	🔊 03516003.abf	🖺 03n17010.abf	🖹 bc3h1f01.abf	k 🔝
	🔊 03516004.abf	🖺 03n17011.abf	💌 bc3h1f01.dat	💌 de
My Documents	🔊 03516005.abf	🖺 03n17012.abf	🖹 burst.abf	K) ec
	🔊 03516006.abf	🖺 03n17013.abf	🛤 burst. dat	🛤 ec
	🔊 03516007.abf	🖺 03o24000.abf	🖹 burstEvents.abf	📐 er
My Computer	•			Þ
Mu Natwork P	File name:	03516001.dat	•	I <u>m</u> port
My Howark P	Files of type:	Axon ABF (*.abf; *.dat)		Cancel

Select the data file to open, and press "Import". An import filter dialog will appear. The dialog depends on the type of data

file.

S:\Project\Bruxton\DATA\Acquire\Wang, Hai-Long\s226	if3u3.dat	×
Parameters [Created: 8/13/1937 4:09:29 PM Sampling interval: 5µs	Import Include Import Import Import Import Import Import Import Import Import Import Import Import	Import Cancel Section
<u>S</u> eries 0 0.000000s Manual	Channels 0 ADC 0	Teh
Sweeps [0 3.0000005 5.000055: 1 72.0000000 6.553155:	Segments 0 0.000000s 228650 1 1.152860s 50240 2 1.455010s 72897 3 2.455105s 153037 4 1.3 7024%s 6.0233 Duration 64 0.354480	
Markers	Samples: 2097	hadally for a cally mody dig to a grane

Select the data to import. In general, data is arranged hierarchically. For example, you might select the sweep to import, and the dialog will list all the segments for that sweep. You select the segment, and the dialog lists all the data for that segment. You then choose the channels to import.

In general, you can choose any combination of channels to import. Depending on the type of file and on the data in the file, you may be able to select multiple episodes or sweeps.

You can limit the amount of data imported by moving the vertical lines in the "Data" display using the mouse. Moving the lines to the edge of the display disables the section. For more precise control over the amount of data imported, use the "Section" button. A dialog will appear that allows you to set exact section start and end times.

Section			×
🔽 Enable			ОК
Start (s): 0.01086	End (s): 0.02658	of 0.03026	Cancel
Sample: 543	1329	of 1513	Help

WaveMetrics IGOR Pro

To use the point-and-click interface to DataAccess through

the menu, select "Load Waves" in the "Data" menu.

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File	Edit	Data	Analysis	Macros	Win	dows	Table	Misc	Help	
		Bro	wse Wave	s						
		Loa	d Waves		•	Loa	ad Wave	es		Ctrl+L
		Sav	/e Waves		⊬	Loa	ad Igor i	Binary.		
		Mal	ke Waves.			Loa	ad Igor '	Text		
		Dup	olicate Way	/es		Loa	ad Gene	ral Tex	t	
				. Carlina		Loa	ad Delim	ited Te	xt	
		Chr.	ange wave	: ocaling,,		Loa	ad Imag	e		
		Rec	Imension ·	waves		Loa	ad ABF F	=ile		
		Insert Points			Loa	ad Acqui	ire File.			
		Uei	ete Points.			Loa	ad Gene	ral Bina	ary File	
		Kill	Waves			Loa	ad MC_F	Rack Fil	e	
						Loa	ad Patch	nMaste	r File	
		Rer	name			Loa	ad Pulse	File		
		Dat	a Browser			Loa	ad SON I	File		
		Pac	:kages		•	Loa	ad Excel	File		
						Pac	ckages			+

Select the menu for the type of file to load:

File format	Menu item
Axon Abf	Load ABF File
Axon atf	Load ATF File
Bruxton Acquire	Load Acquire File
CED SON	Load SON File
HEKA PatchMaster	Load PatchMasterFile
HEKA Pulse	Load Pulse File

A dialog will appear to allow you to select the data to import. The dialog depends on the type of data file.



Select the data to import. In general, data is arranged hierarchically. For example, you might select the sweep to import, and the dialog will list all the segments for that sweep. You select the segment, and the dialog lists all the data for that segment. You then choose the channels to import.

You can limit the amount of data imported by moving the vertical lines in the "Data" display using the mouse. Moving the lines to the edge of the display disables the section. For more precise control over the amount of data imported, use the "Sec-

tion" button. A dialog will appear that allows you to set exact section start and end times.

Section		×
🔽 Enable		OK
Start (s): 0.01086	End (s): 0.02658 of 0.1	03026 Cancel
Sample: 543	1329 of 15	i13 Help

The data will be imported into the folder "wave". You can also access the "point-and-click" interface through a script:

File format	Command
Axon Abf	ABFFileLoad [folder:base name]
Axon atf	ATFFileLoad [folder:base name]
Bruxton Acquire	AcquireFileLoad [folder:base name]
CED SON	SONFileLoad [folder:base name]
HEKA PatchMaster	PMFileLoad [folder:base name]
HEKA Pulse	PulseFileLoad [folder:base name]

From IGOR Pro you can also use a full script interface to access the file. For information about how to use the script interface to DataAccess from IGOR Pro, see the DataAccess programming manual.

Support

For product support, contact Bruxton Corporation. We can be reached at:

email:	sales@bruxton.com support@bruxton.com
www:	http://www.bruxton.com
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