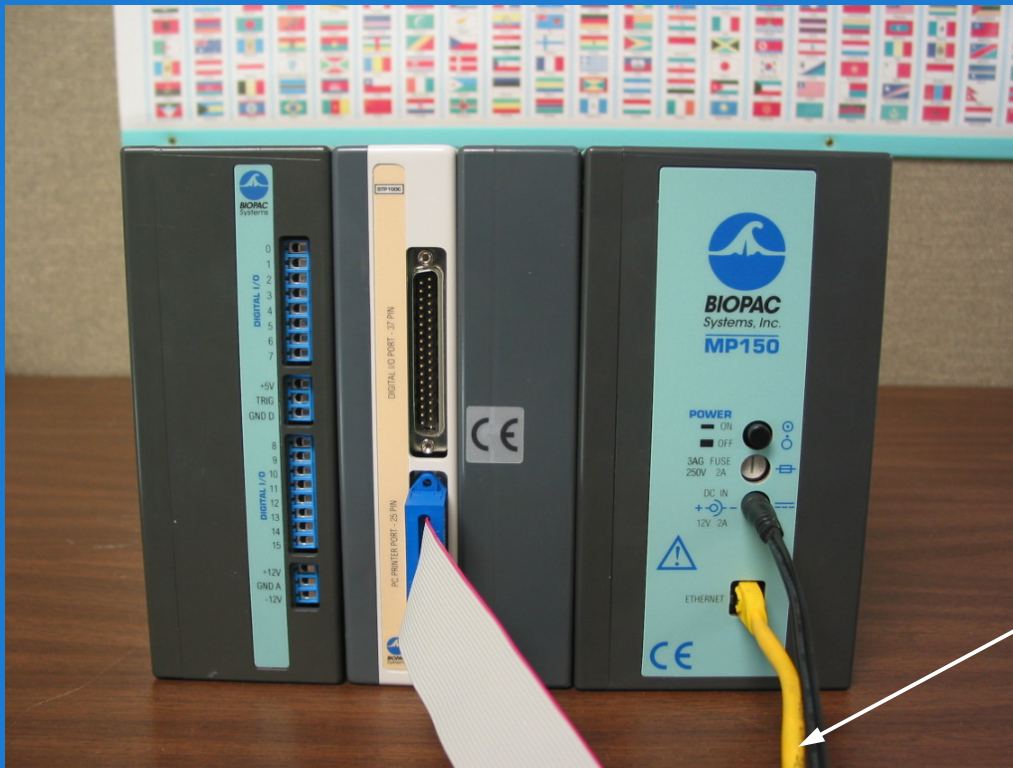




Interfacing the *AcqKnowledge* software with E-Prime



MP150 data acquisition hardware interfaces with a computer running the *AcqKnowledge* through ethernet cable

Computer running E-Prime interfaces to MP150 data acquisition hardware through 25-pin connector on STP100C module



Stimulus Event Marking 2: E-Prime

ECP Printer Port (LPT1) Properties

Resource settings:

Resource type	Setting
I/O Range	0378 - 037F
I/O Range	0778 - 077F

Setting based on: Current configuration

Use automatic settings

Conflicting device list:
No conflicts.

OK Cancel

OnePulset.es2 - E-Studio Professional

File Edit View E-Run Tools Window Help

Toolbox: All, ImageDisplay, InLine, Label, List, MovieDisplay, PackageCall

Structure:

- SelectChannelsAndSetPulses
- PauseForStimulation**
- SetBackDown

Properties: PauseForStimulation Wait

(Name)	PauseForStimulation
(About)	
(Property Pages)	
DataLogging	Custom
Duration	1000
JumpLabel	
Notes	
OffsetSync	(none)
OnsetSync	(none)
PreRelease	0
Tag	
TimingMode	Event

WritePort: &H378, 4

SetBackDown: WritePort: &H378, 0

Script NUM

Address of Parallel Port



Stimulus Event Marking 2: E-Prime

The screenshot shows the E-Studio Professional interface with the following components:

- Structure:** A tree view containing 'SelectChannelsAndSetPulses', 'PauseForStimulation', and 'SetBackDown'.
- Properties:** A table for the 'PauseForStimulation' event.
- SelectChannel...:** A script window showing 'WritePort &H378, 4'.
- SetBackDown:** A script window showing 'WritePort &H378, 0'.

(Name)	PauseForStimulation
(About)	
(Property Pages)	
DataLogging	Custom
Duration	1000
JumpLabel	
Notes	
OffsetSync	(none)
OnsetSync	(none)
PreRelease	0
Tag	
TimingMode	Event

Set 3rd channel (D10) high

For one second

Then set all digital channels low



Stimulus Event Marking 3: AcqKnowledge

The screenshot shows the AcqKnowledge software interface. The main window displays a waveform plot with a red square pulse. The y-axis is labeled 'Volts' and ranges from -2.50 to 7.50. The x-axis is labeled 'seconds' and ranges from 4.00 to 6.00. A dialog box titled 'Input channels setup for MP150 000B25' is open, showing a table of digital input channels. The 'MP150' menu item in the top bar is circled in red. Red arrows point from the 'MP150' menu to the dialog box and the waveform plot.

Acquire	Plot	Value	Channel	Label	Channel Sampling Rate
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D0	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D1	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D2	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D3	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D4	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D5	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D6	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D7	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D8	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D9	Digital input	1.000 kHz
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	D10	D10	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D11	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D12	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D13	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D14	Digital input	1.000 kHz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D15	Digital input	1.000 kHz

Hardware sampling rate and will change if the hardware sampling rate is modified.

Access the Setup channels dialog from the MP150 menu and turn on the appropriate digital channel