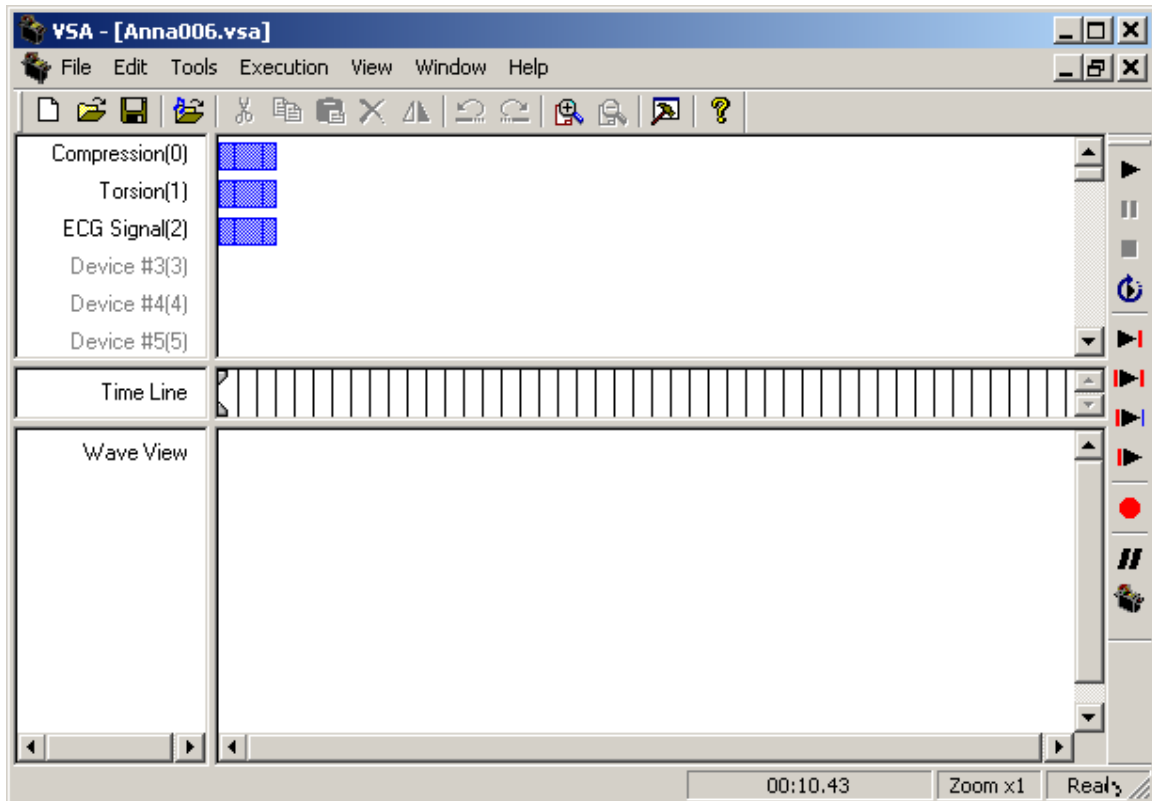


VSA
Visual Show Automation
Ver 2.0

Overview VSA

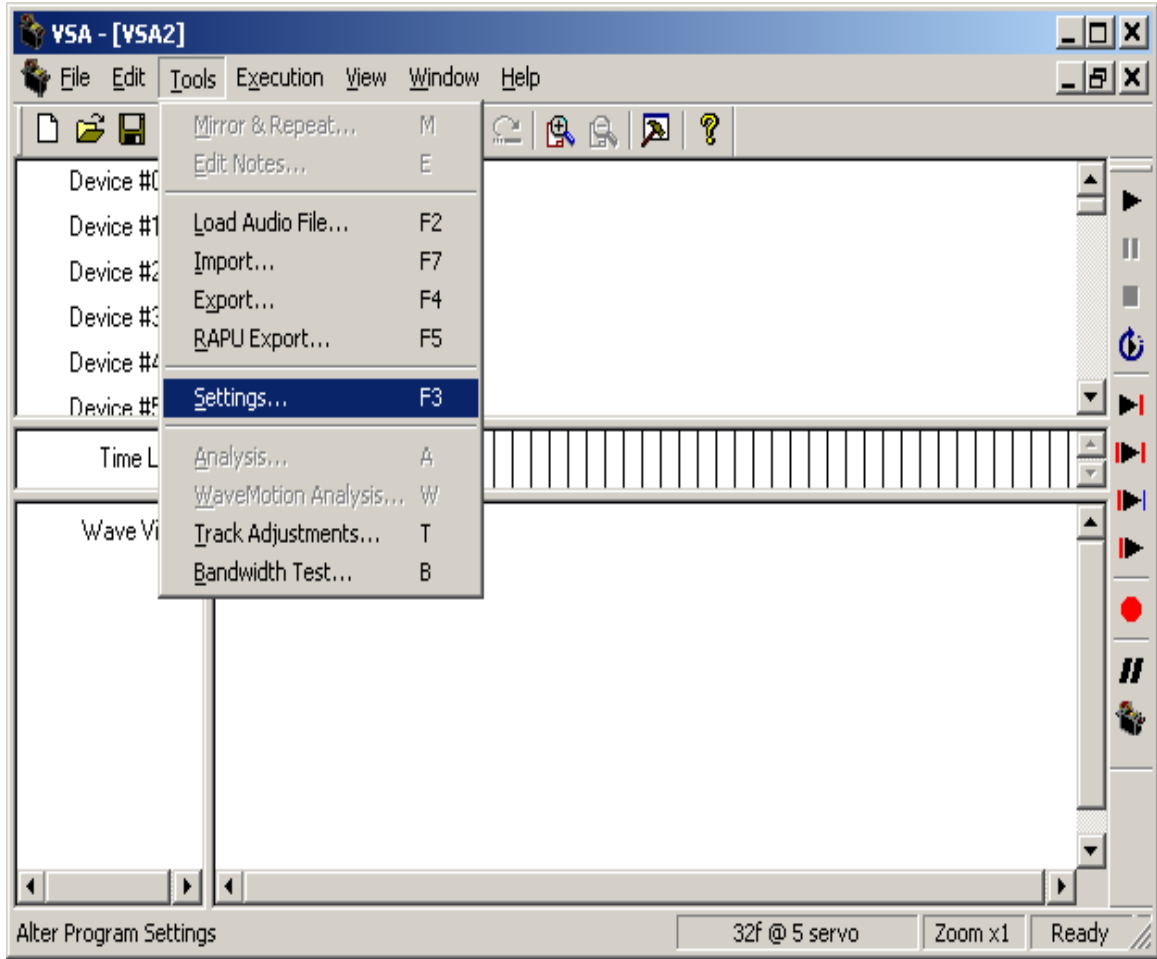
The Visual Show Automation (VSA) software is used to create the routine that will be exported to be stored onto the RAPU memory card.

Click and launch the VSA software.



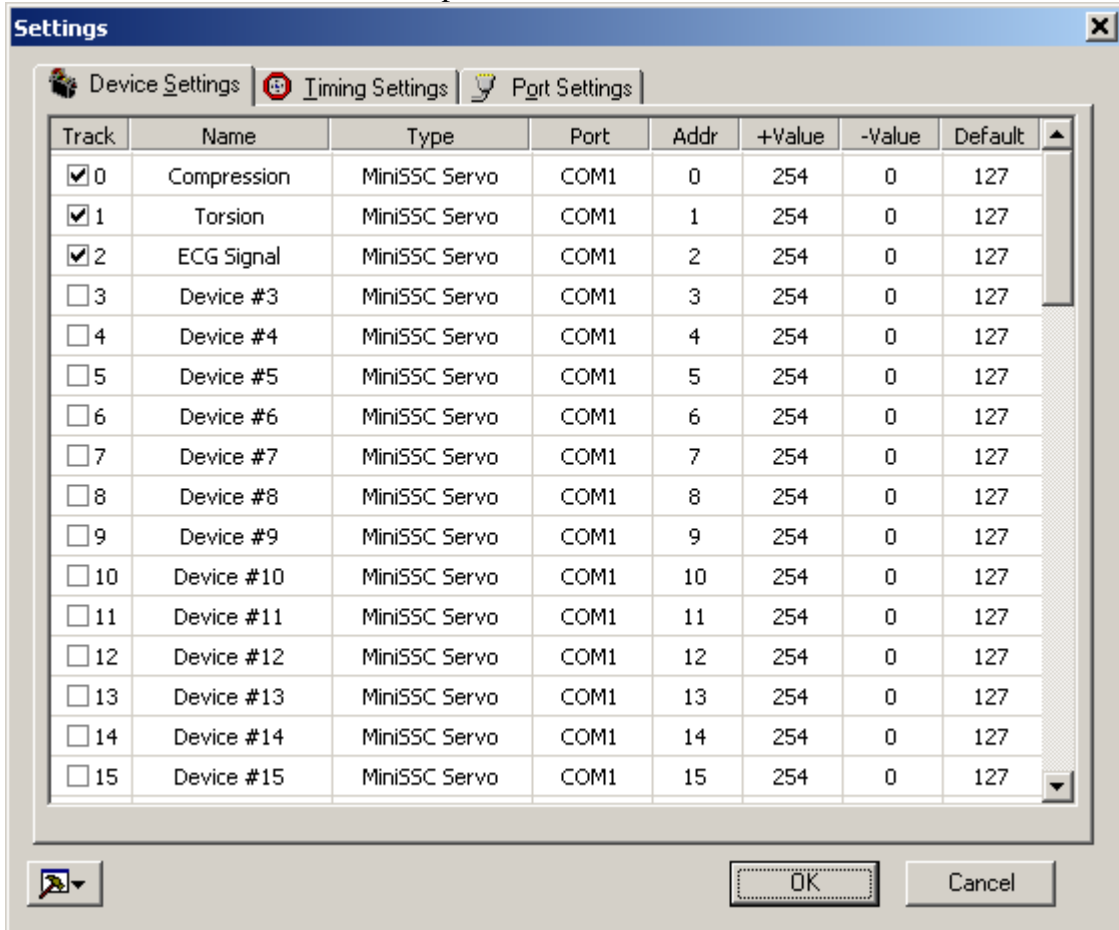
The following screen will appear and currently the Anna006.vsa file is opened. Working with an existing file is recommended.

Creating a new routine the following settings need to be set.



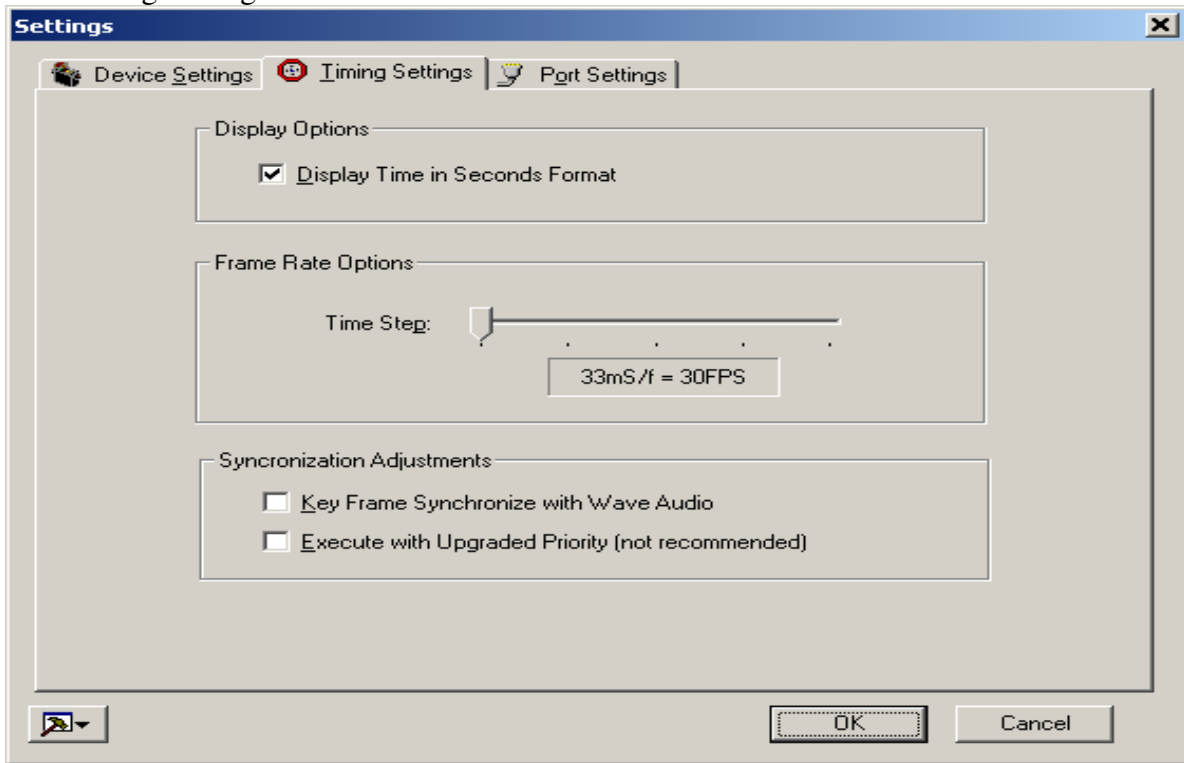
Click Tools, then Click Settings. Settings window will be active.

The Device Settings tab click and Enable Track 0, Track 1 and Track 2 only. To change the Name from Device #1 to Compression click on the name.

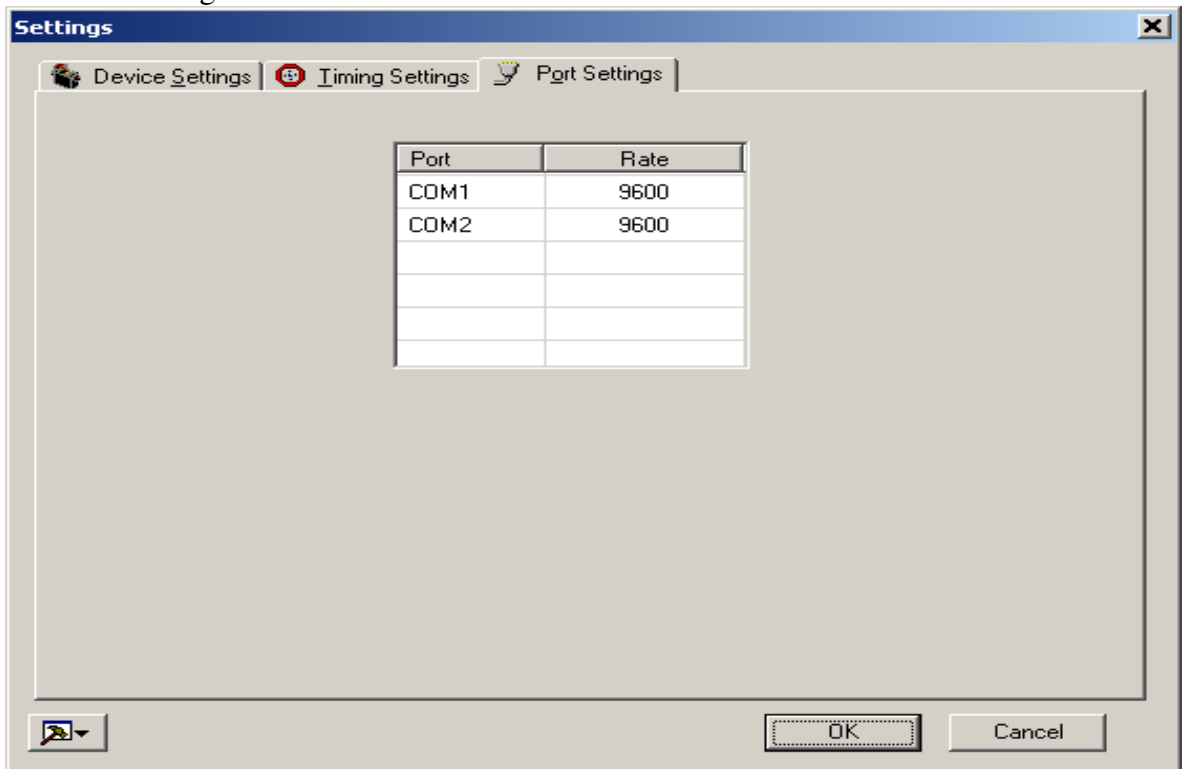


Opening an existing routine will have all the following settings set.

The Timing Settings have to be set as follows.

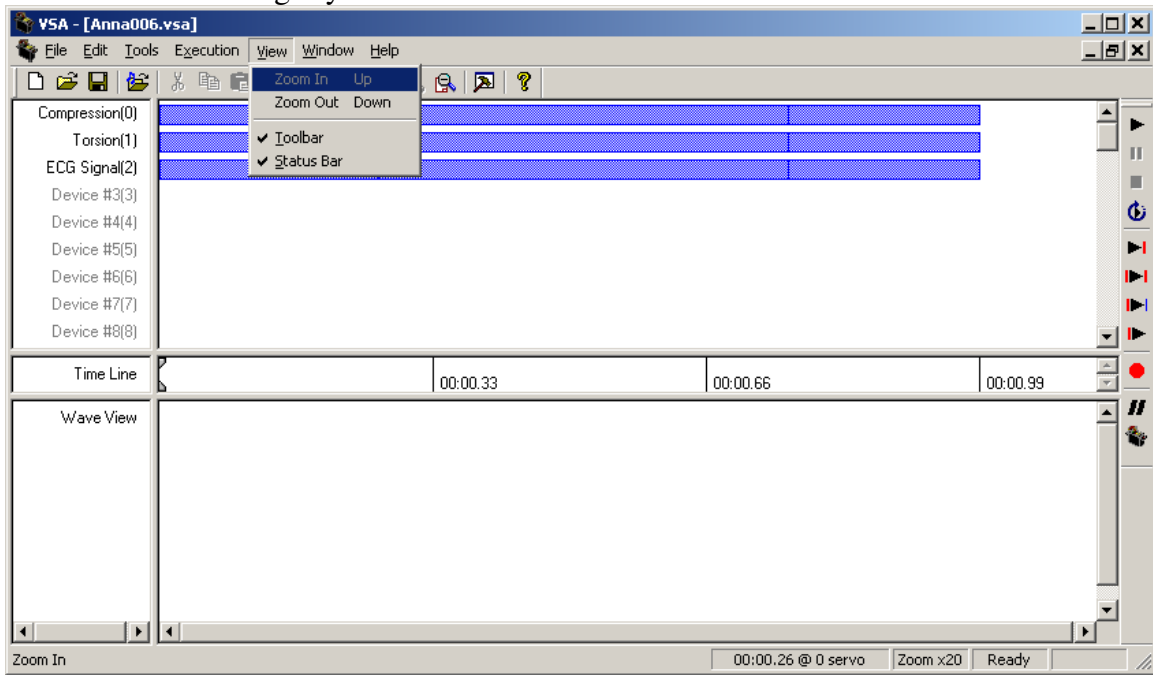


The Port Settings have to be set as follows.

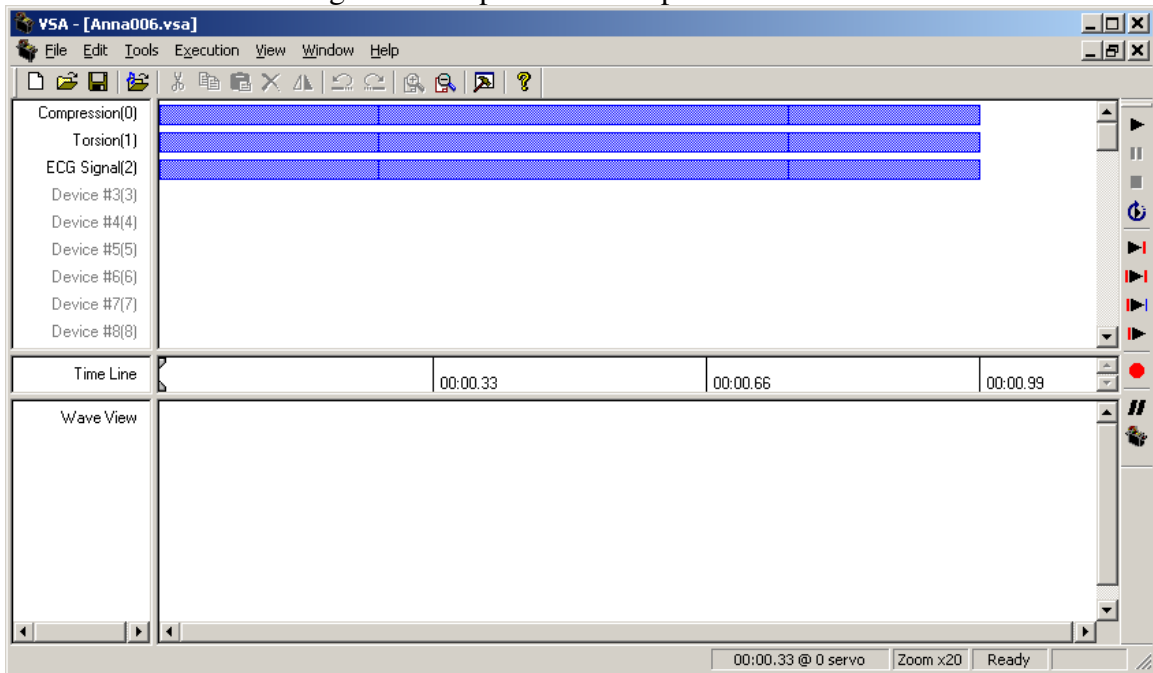


Click OK to finish.

Click Zoom In to magnify the time line.



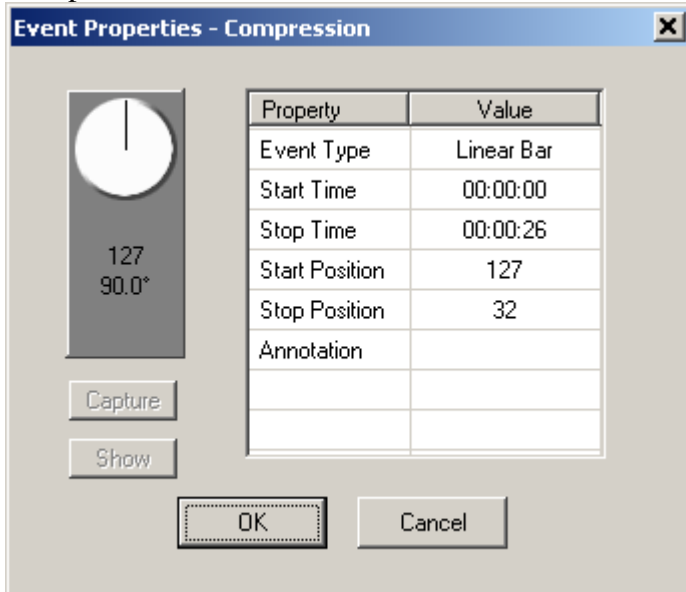
Currently the Compression track has 3 events. Using the Mouse you can drag a new event or double click an existing event to open Event Properties.



You will need to create each event via the mouse pointer or clicking on an existing event and modify the values for each event.

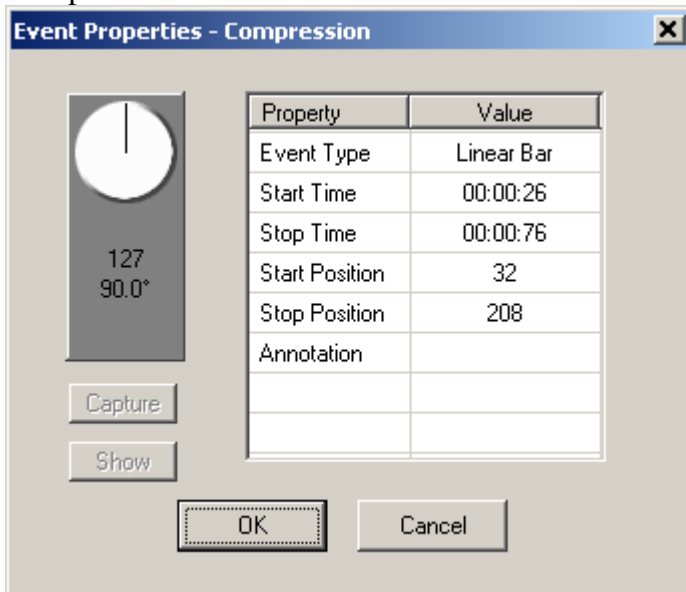
Modify the Compression Events as follows.

Compression Event 1



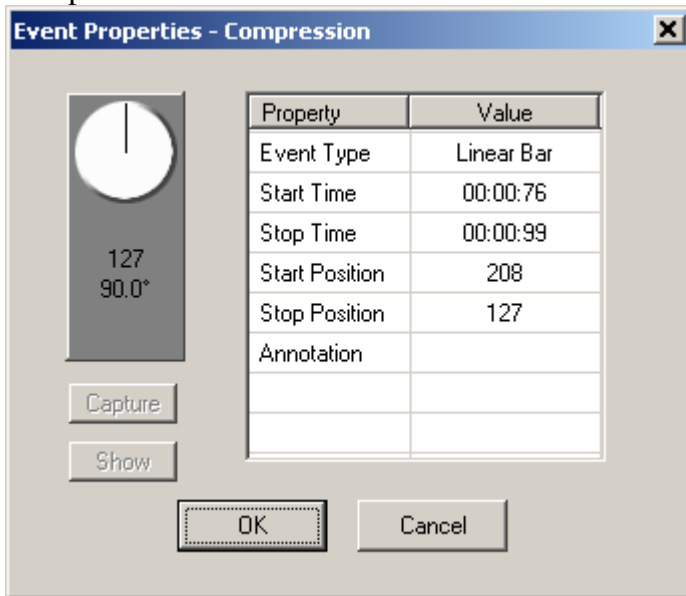
Start Time = 00:00:00, Stop Time = 00:00:26
Start Position = 127, Stop Position = 32

Compression Event 2



Start Time = 00:00:26, Stop Time = 00:00:76
Start Position = 32, Stop Position = 208

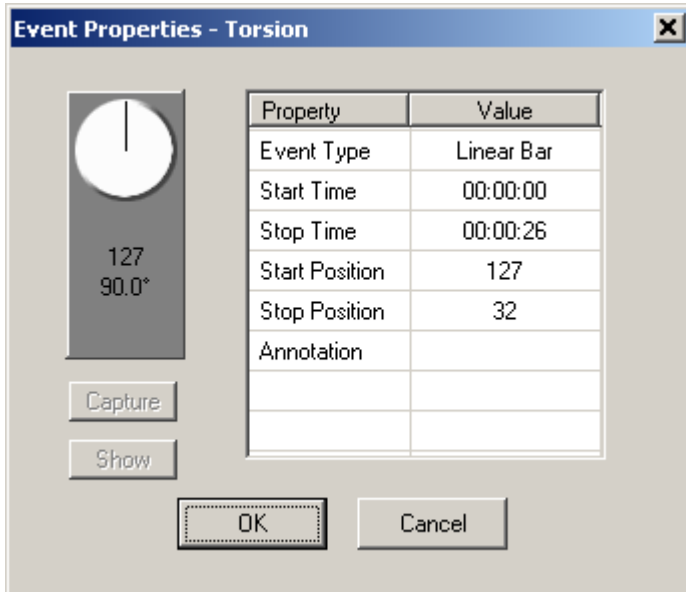
Compression Event 3



Start Time = 00:00:76, Stop Time = 00:00:99
Start Position = 208, Stop Position = 127

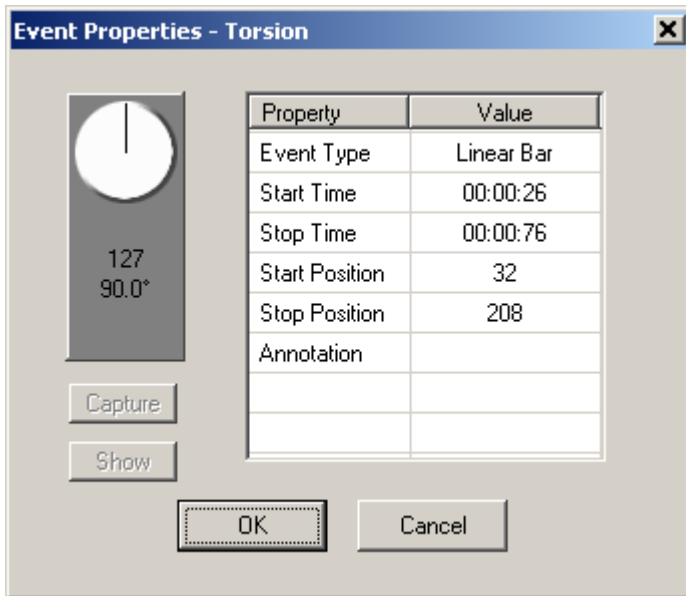
Modify the Torsion Events as follows.

Torsion Event 1



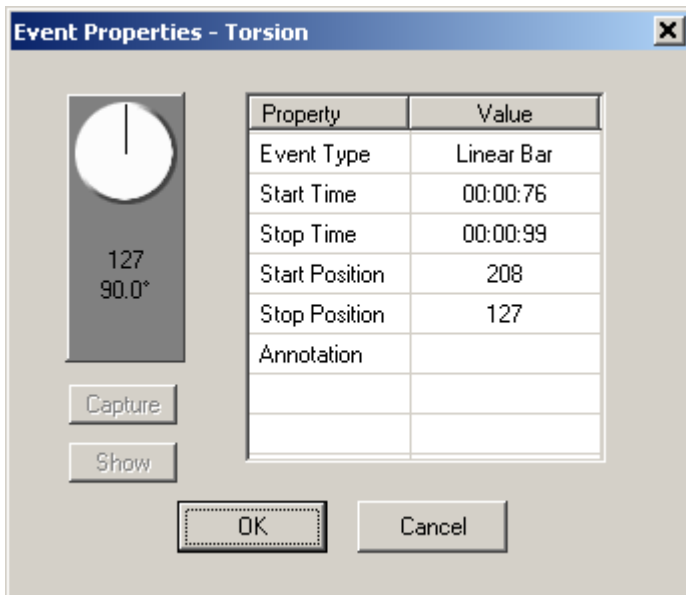
Start Time = 00:00:00, Stop Time = 00:00:26
Start Position = 127, Stop Position = 32

Torsion Event 2



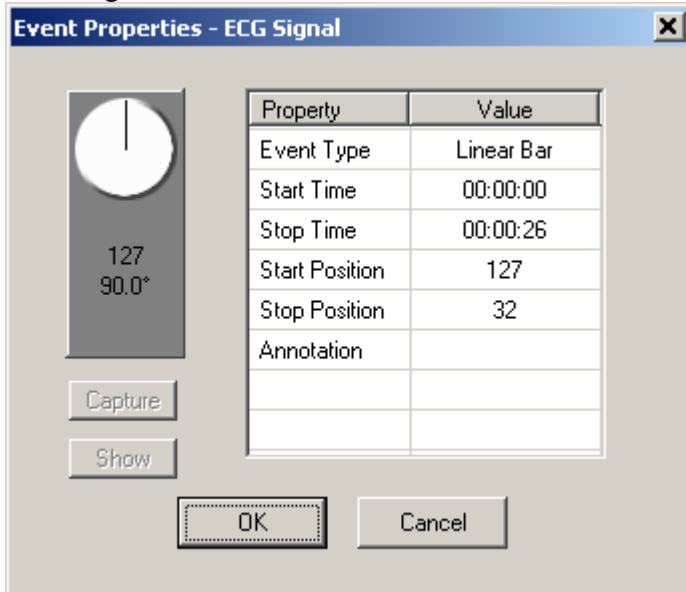
Start Time = 00:00:26, Stop Time = 00:00:76
Start Position = 32, Stop Position = 208

Torsion Event 3



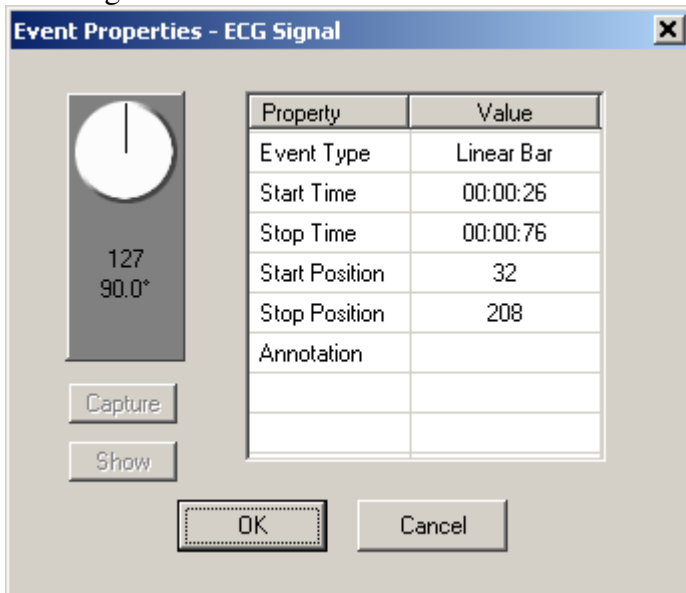
Start Time = 00:00:76, Stop Time = 00:00:99
Start Position = 208, Stop Position = 127

Modify the ECG Signal Events as follows.
ECG Signal Event 1



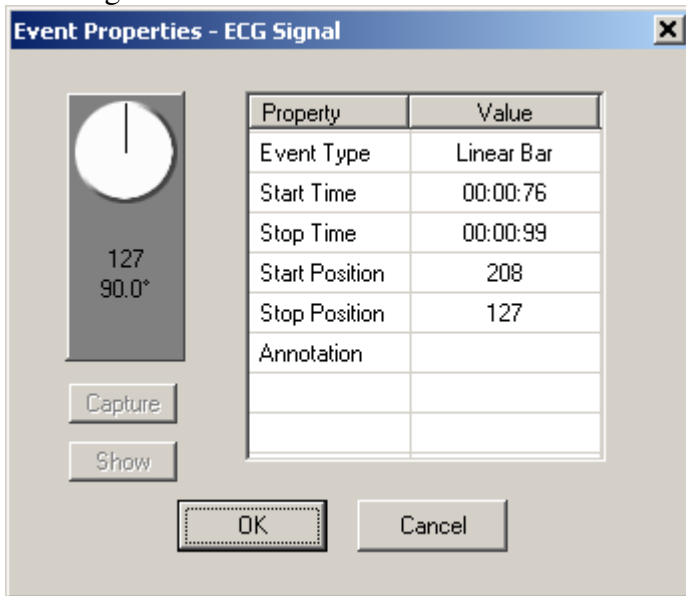
Start Time = 00:00:00, Stop Time = 00:00:26
Start Position = 127, Stop Position = 32

ECG Signal Event 2



Start Time = 00:00:26, Stop Time = 00:00:76
Start Position = 32, Stop Position = 208

ECG Signal Event 3



Start Time = 00:00:26, Stop Time = 00:00:76
Start Position = 32, Stop Position = 208

Please Note: The ECG Signal requires optional RC to DC Converter.
The optional converter will output a DC voltage from 0VDC to 5VDC. This Output voltage is based on the Start Position and Stop Position. A Start Position 0 = 0VDC and Start Position 254 = 5VDC on the RC to DC Converter Output.

Eg: ECG Signal Event

Start Time = 00:00:00, Stop Time = 00:00:26
Start Position = 0, Stop Position = 254

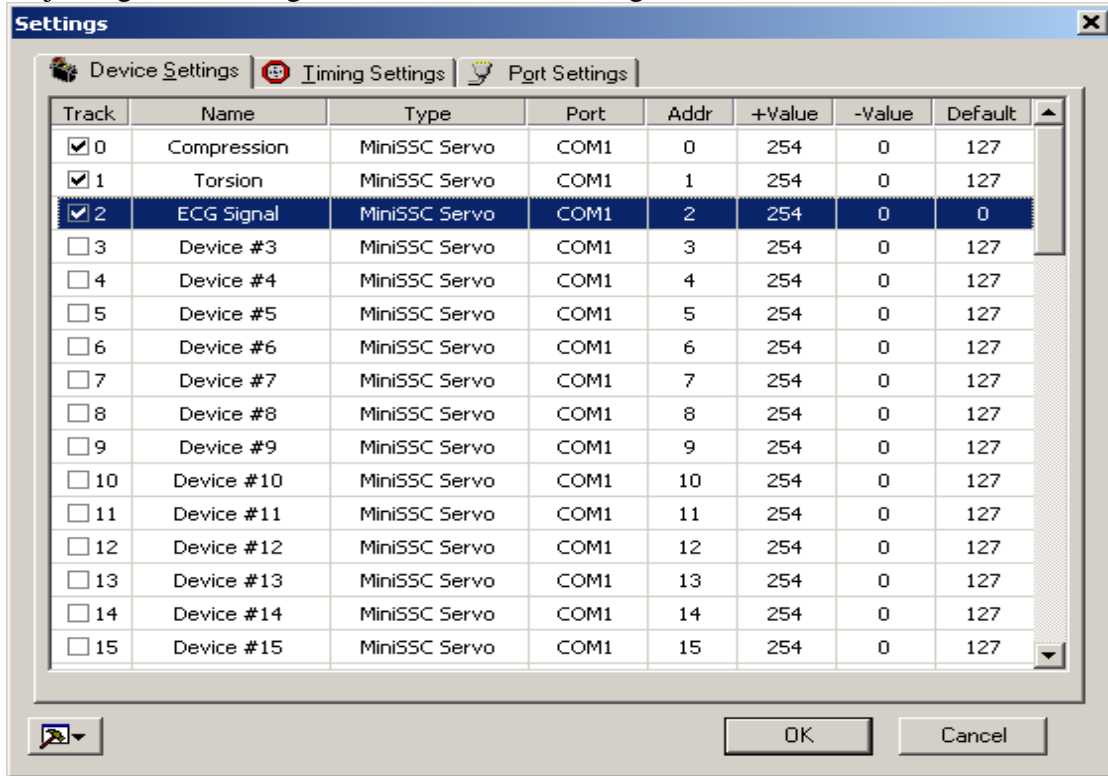
This example ECG Signal Event will output on the RC to DC Converter 0VDC to 5VDC in 00:00:26 seconds.

Eg: ECG Signal Event

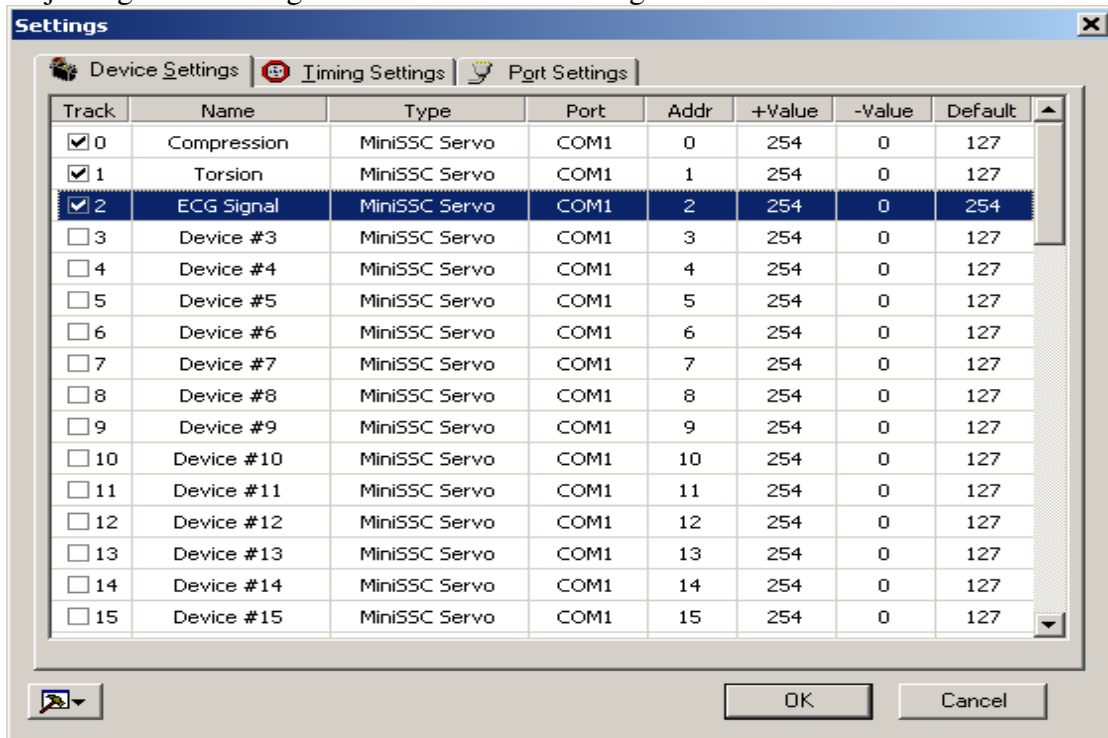
Start Time = 00:00:00, Stop Time = 00:00:26
Start Position = 254, Stop Position = 254

This example ECG Signal Event will output on the RC to DC Converter 5VDC and hold 5VDC for 00:00:26 seconds.

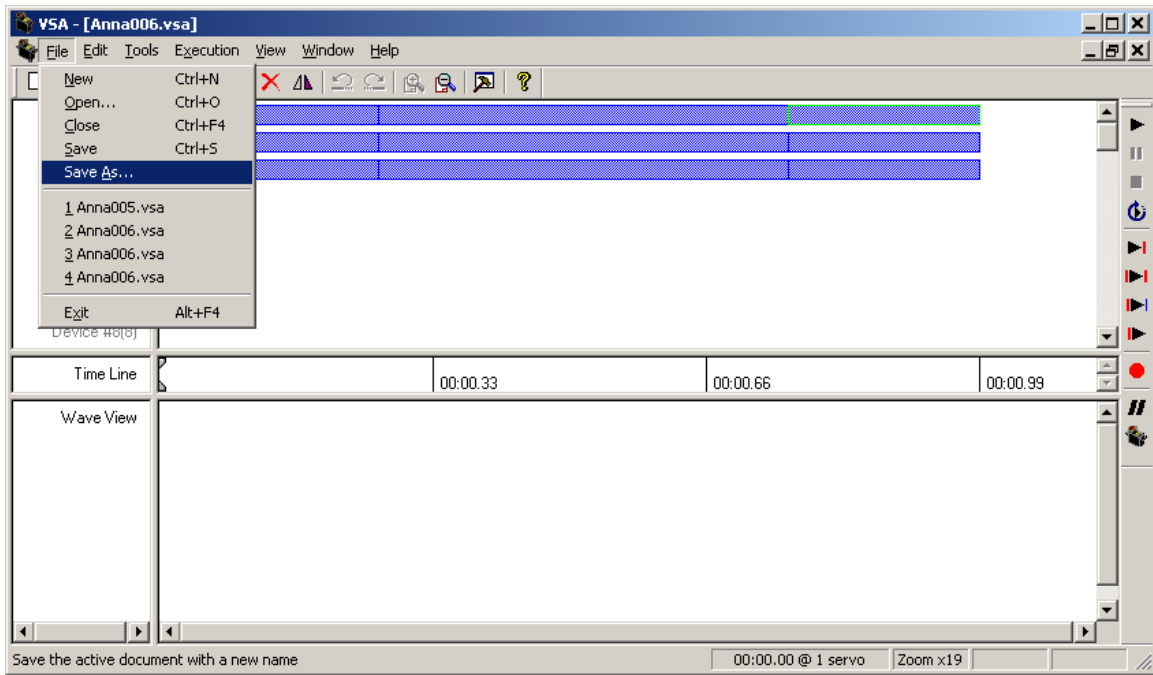
Adjusting the ECG Signal to start at 0VDC change the Default to 0



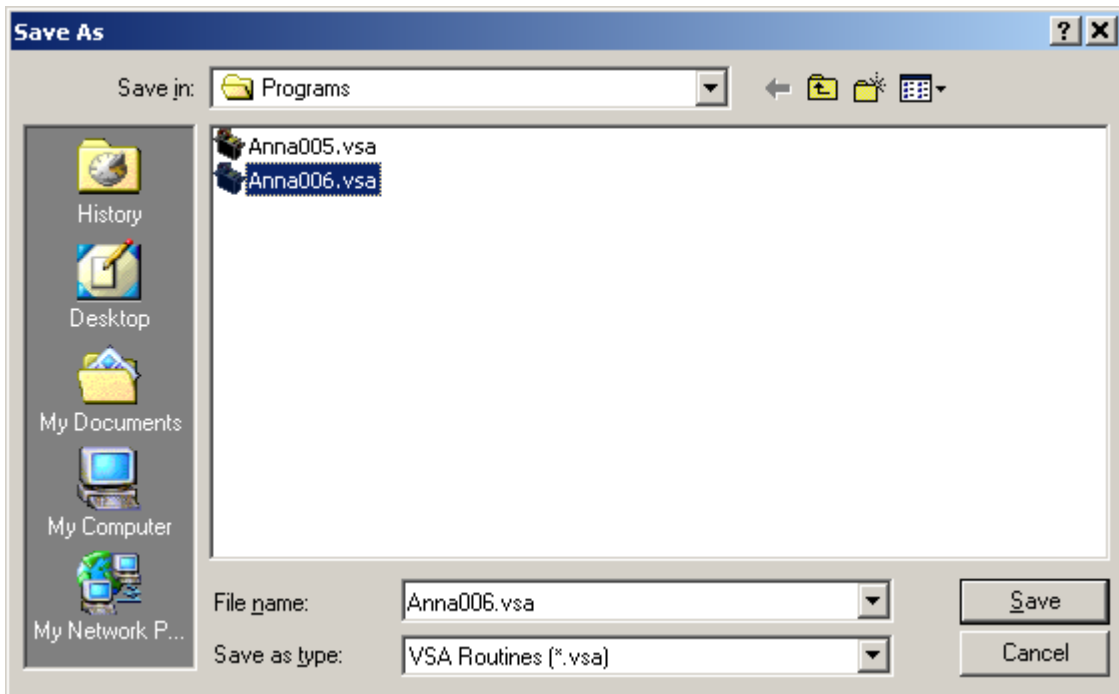
Adjusting the ECG Signal to start at 5VDC change the Default to 254



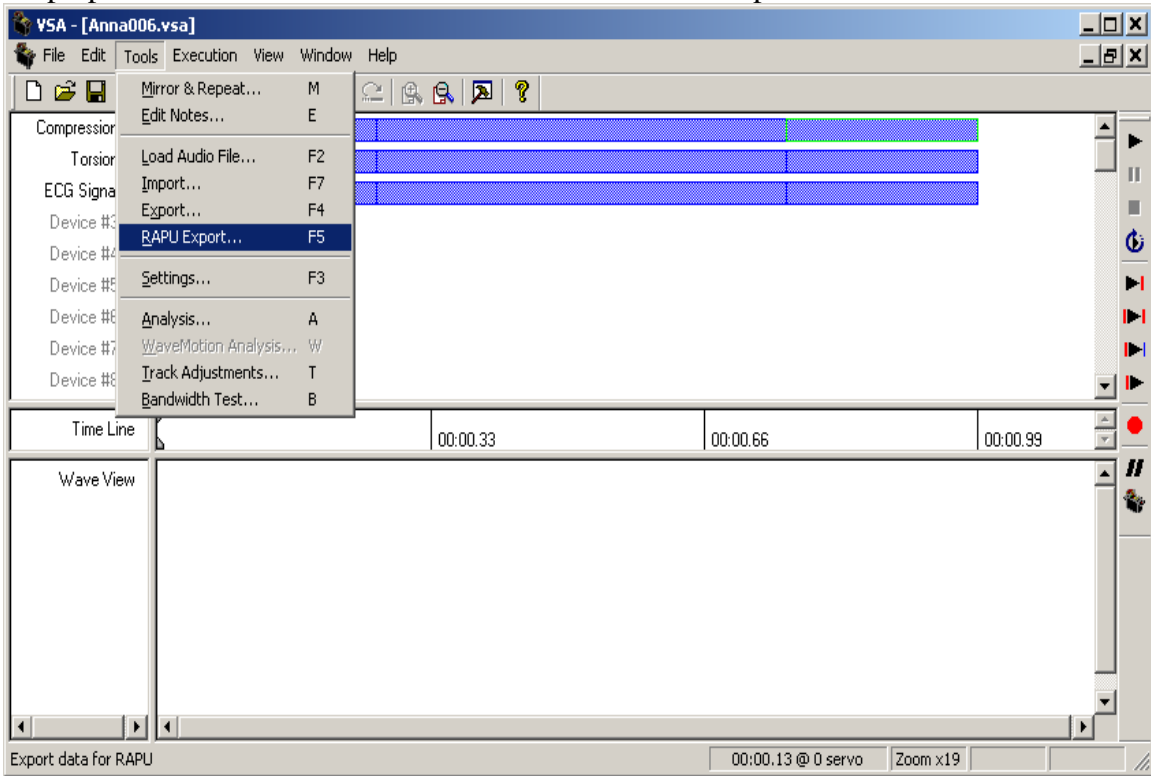
Click File then Save As.



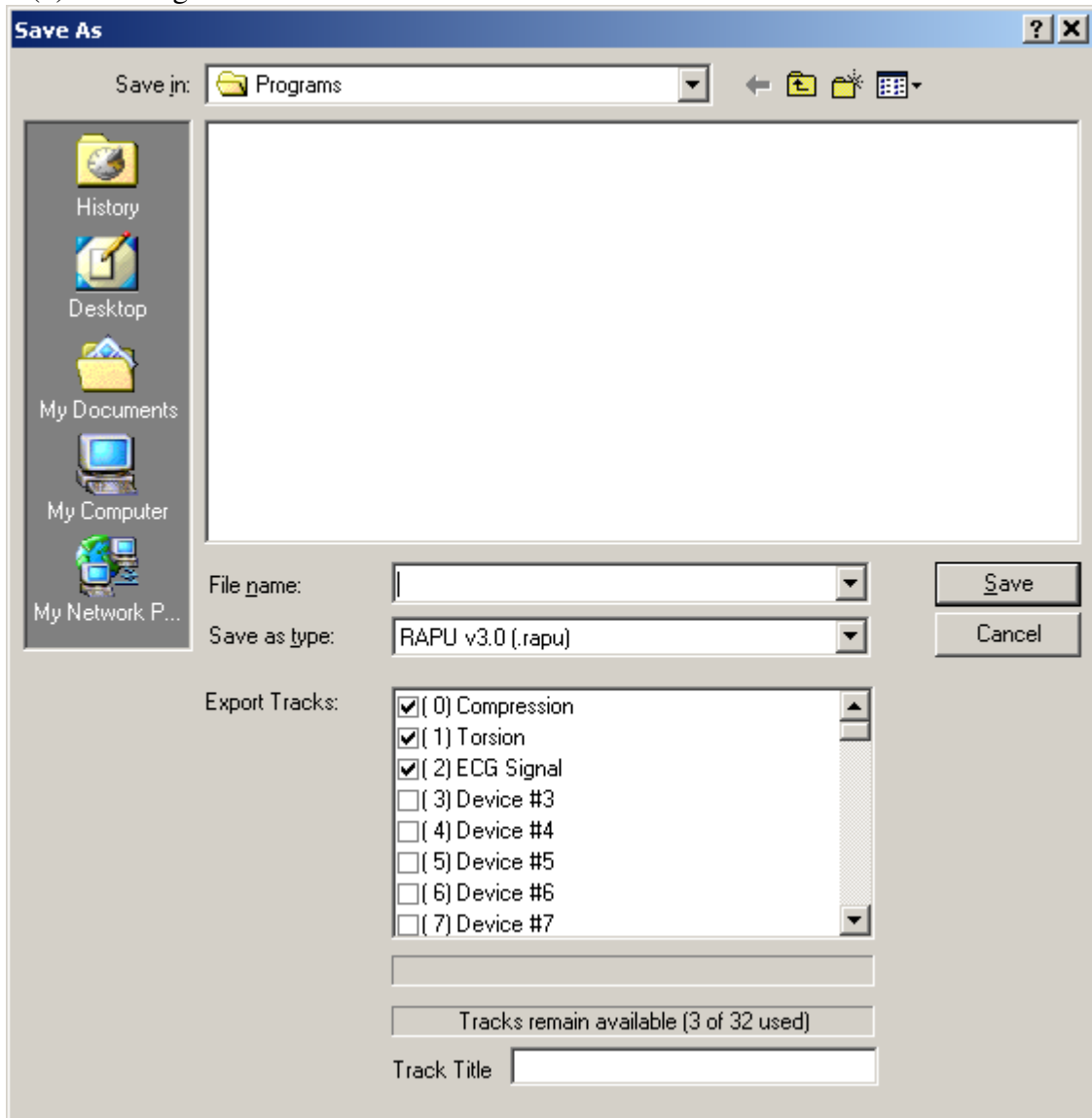
Choose a filename and click Save button . This saves the file as VSA routine.



To prepare a file for the RAPU click Tools then RAPU Export.



Choose a file name, Save as type RPU v3.x (.rapu), Export Tracks click and select
(0) Compression
(1) Torsion
(2) ECG Signal



Click Save button to export the tracks to the current filename.

The routine is now complete and ready to be used by the RPU hardware. Please refer to the RPU Users Guide for storing the routine.