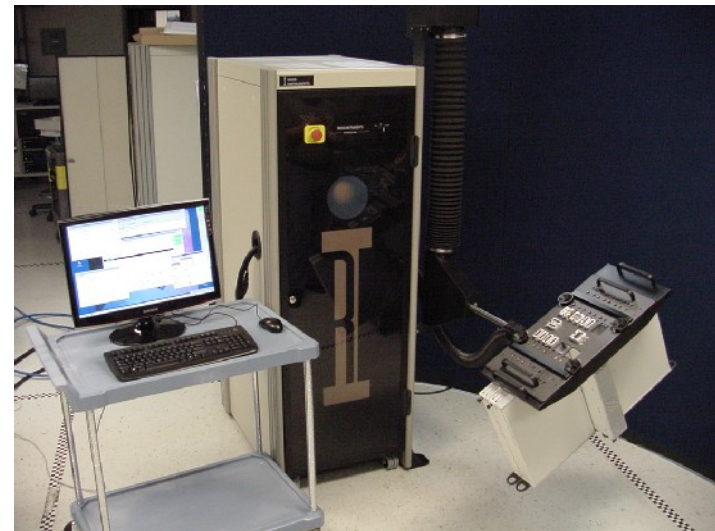




CASSINI RF/ Microwave ATE System Tester Viewer/Control Panels

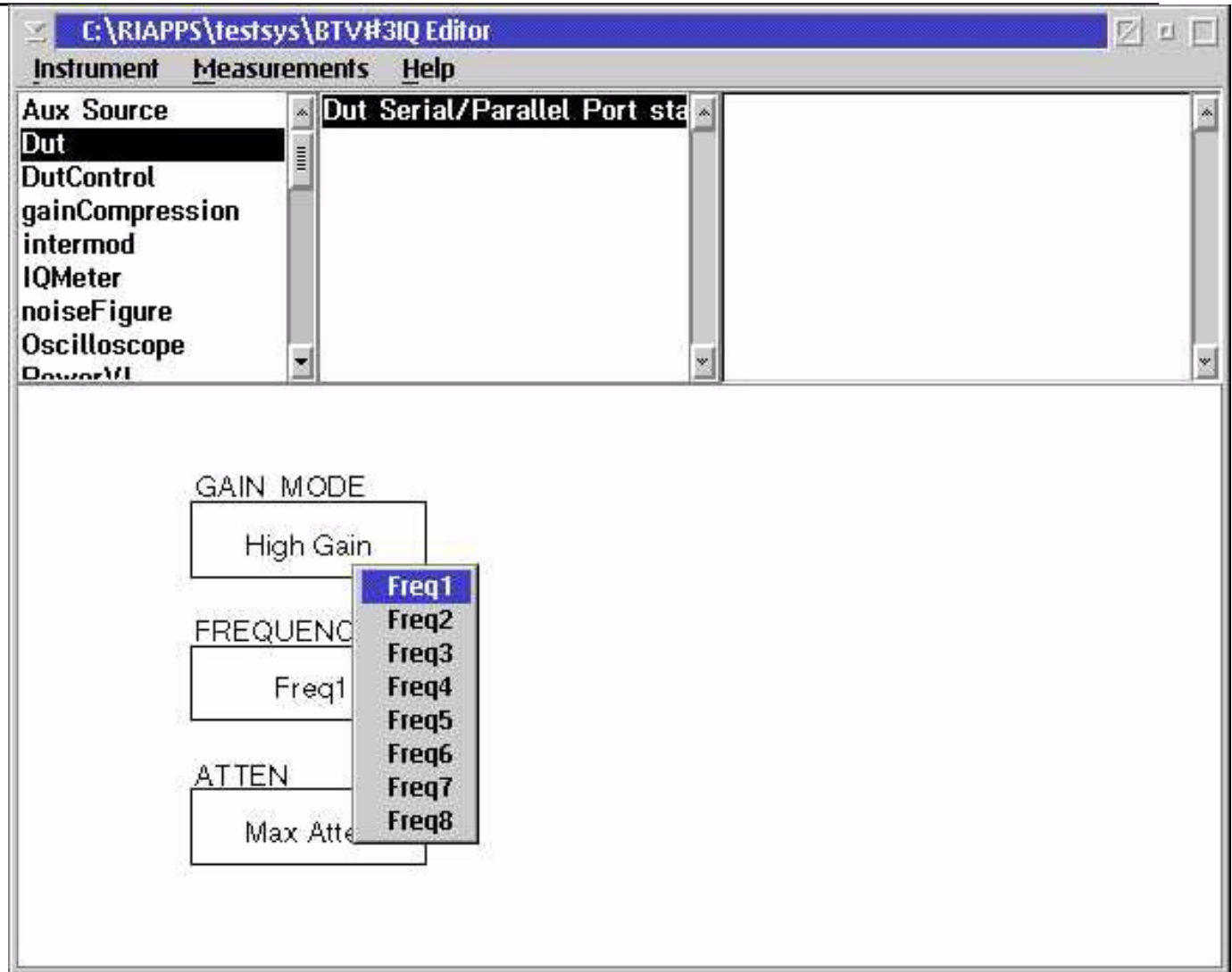




DUT

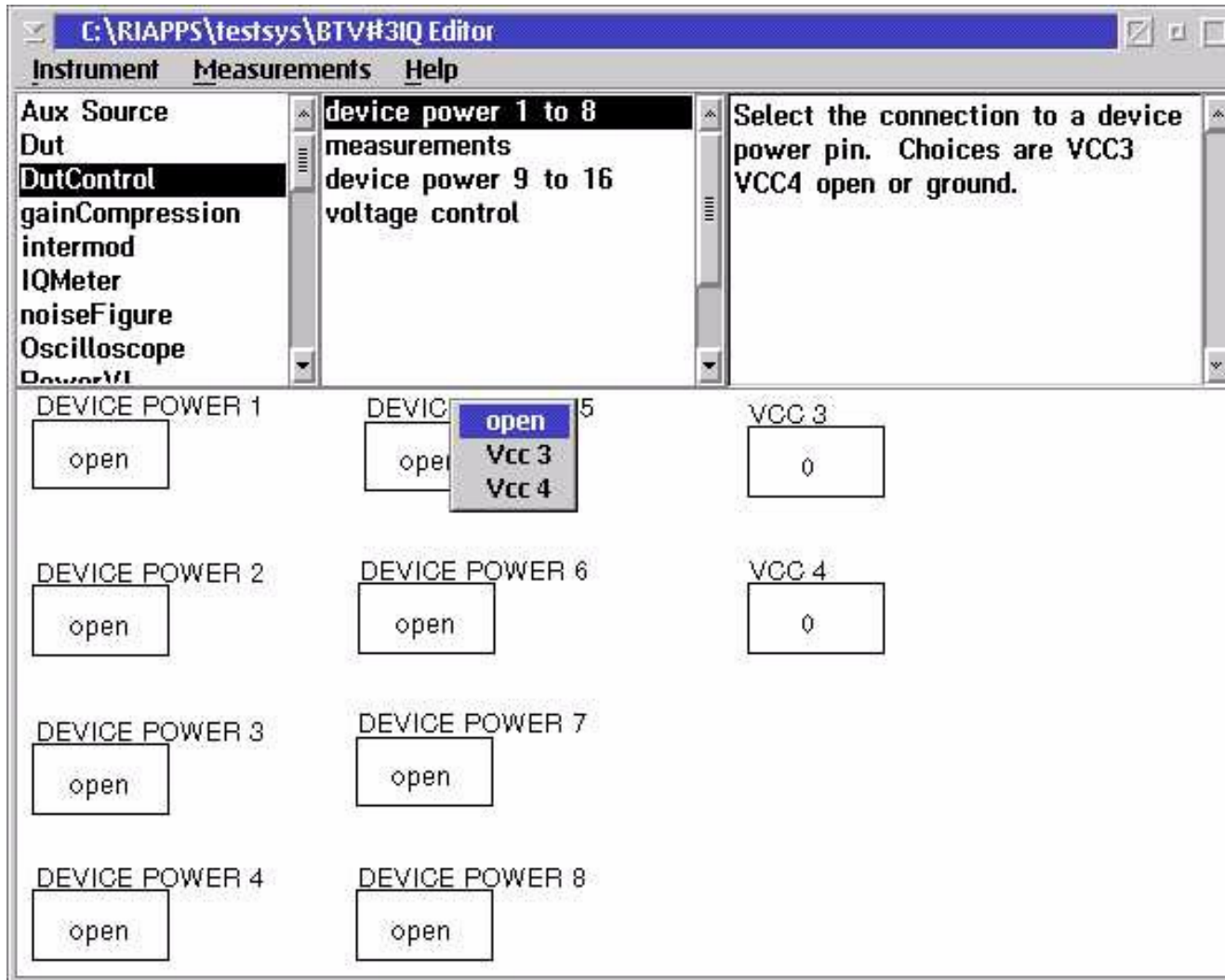
Note : Defined in Device Port Editor

Buttons become visible based on what port types are defined.





DUT Control; DP Lines





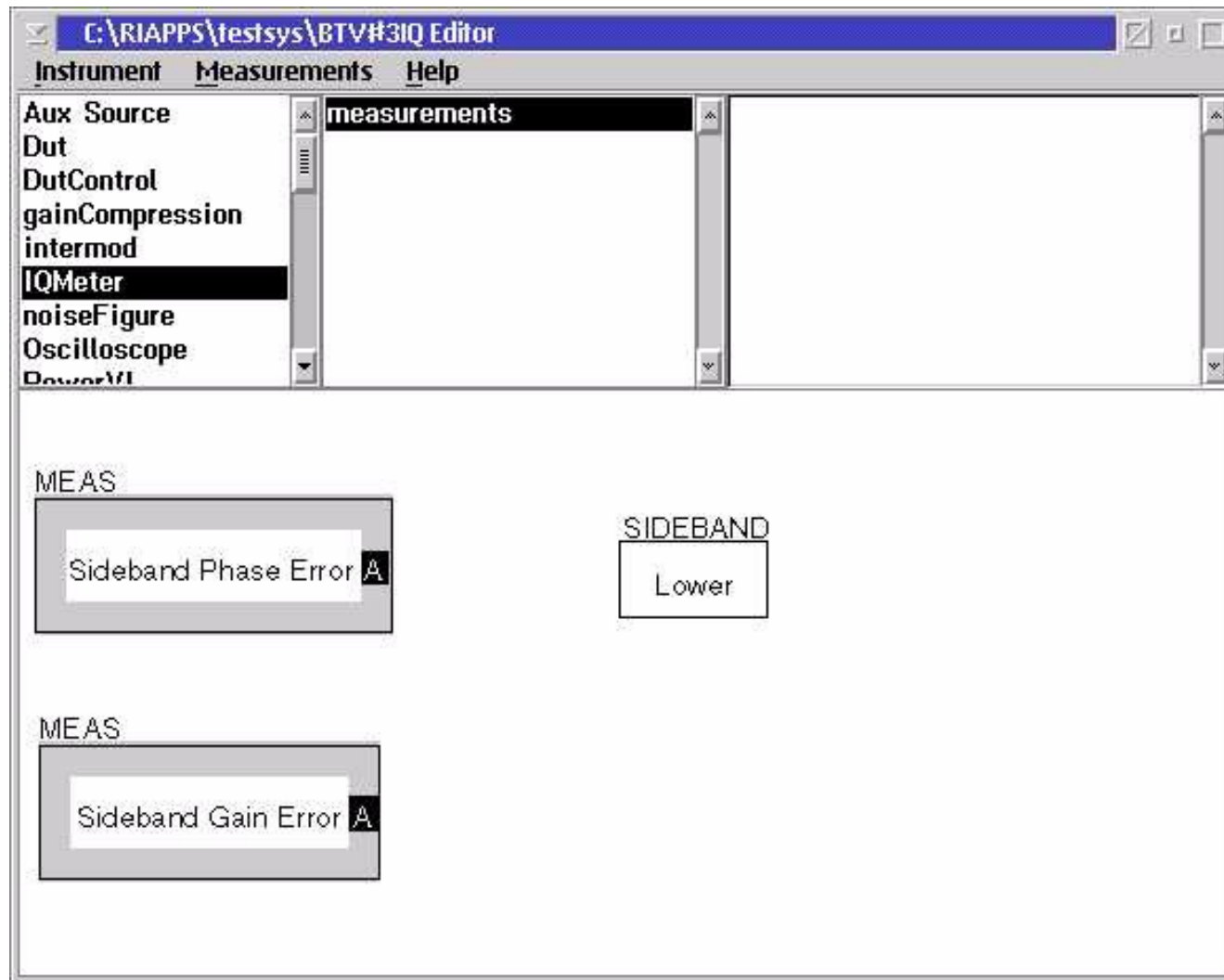
DUT Control; Measurement

The screenshot displays the 'BTV#3IQ Editor' software interface. The title bar shows the path 'C:\RIAPPS\testsys\BTV#3IQ Editor'. The menu bar includes 'Instrument', 'Measurements', and 'Help'. A tree view on the left lists various measurement categories: 'Aux Source', 'DutControl', 'gainCompression', 'intermod', 'IQMeter', 'noiseFigure', 'Oscilloscope', 'PowerVI', and 'Receiver'. The 'DutControl' category is expanded, showing sub-items: 'device power 1 to 8', 'measurements', 'device power 9 to 16', and 'voltage control'. The main workspace contains three measurement panels:

- Voltage MEAS:** A control box labeled 'Voltage A' with a 'VOLTAGE MEAS MAX' field set to '10' and a 'VOLTAGE MEAS MODE' dropdown set to 'single'. Below it is a 'VMEASURE' field set to 'Vm 1'.
- Current MEAS:** A control box labeled 'Current A' with a 'CURRENT MEAS MAX' field set to '1'. A dropdown menu is open, showing options 'Vcc1', 'Vcc2', 'Vcc3', 'Vcc4', 'Vcc5', and 'Vcc6'. Below it is an 'IMEAS' field set to 'Vcc'.
- Voltage Vs Time MEAS:** A control box labeled 'Voltage Vs Time A' with a 'SAMPLES' field set to '21' and a 'MEAS RATE' field set to '1 Hz'.

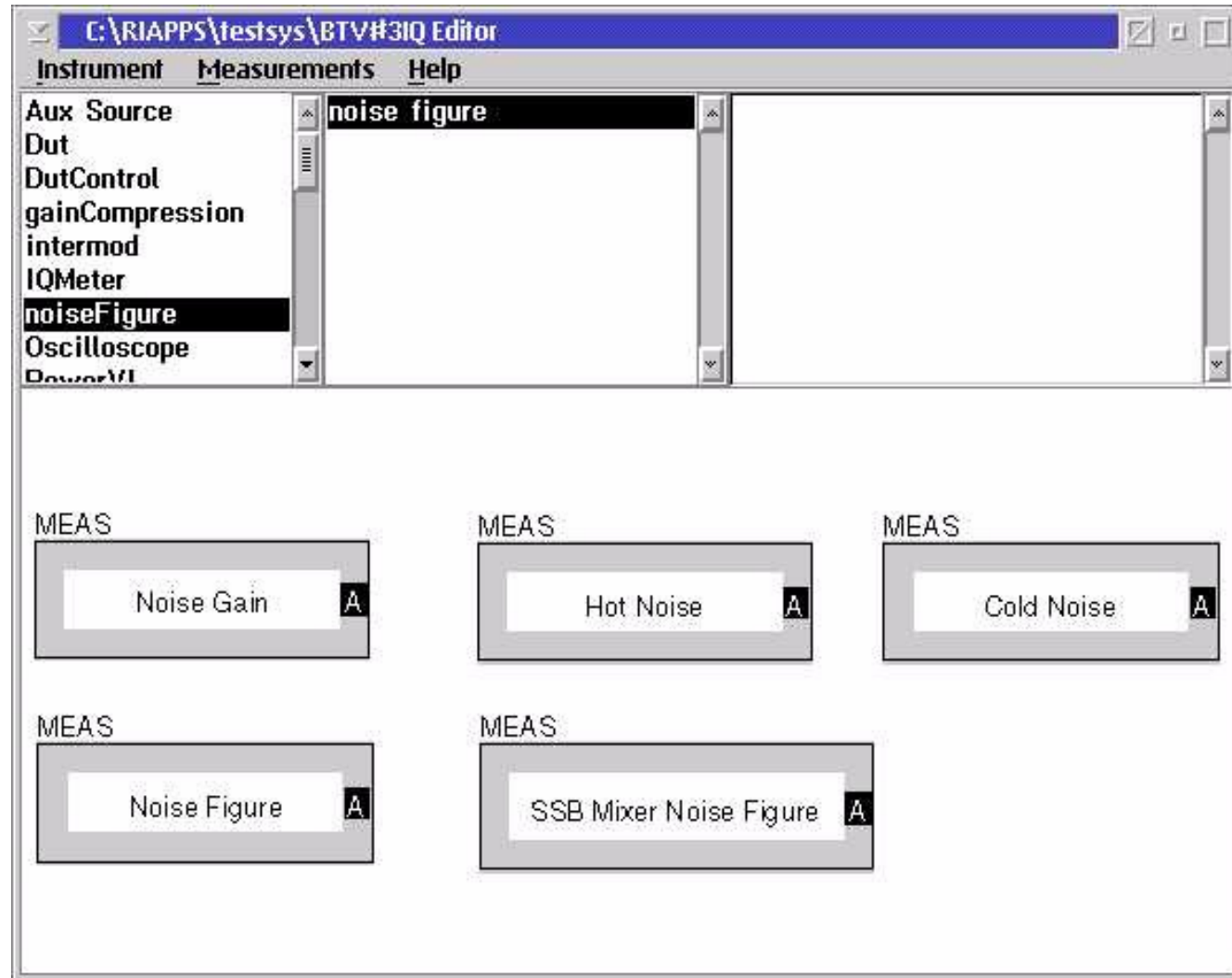


IQ Meter (SSB Modulator)





Noise Figure





Oscilloscope; State

The screenshot shows the 'BTV#3IQ Editor' window with the 'Oscilloscope' settings panel. The 'state' menu item is selected, and the 'Oscilloscope' option is highlighted in the left-hand list. The right-hand pane contains the following text:

Set the digitizing period in seconds / division where the full record is 10 divisions. If the number of samples is 1 then the time per division becomes the sample time. In this case it must be > 8 us.

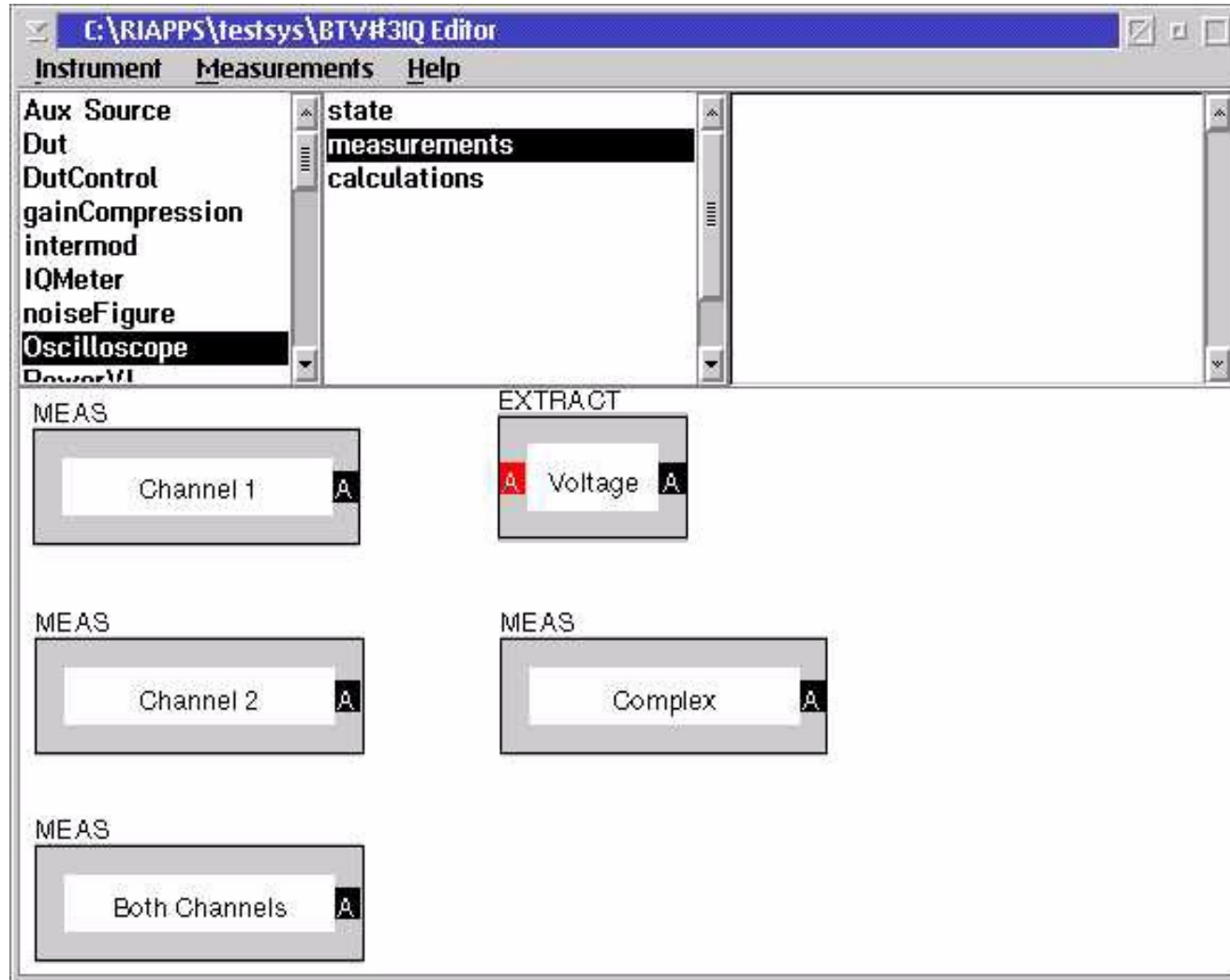
Below the settings panel, there are three input fields:

- INPUT FREQ: 1 M
- TIME PER DIV: 10 u
- SAMPLES: 100

A dialog box titled 'Enter a Number' is open, with the text '10 u' entered in the input field. The dialog has 'OK' and 'Cancel' buttons.

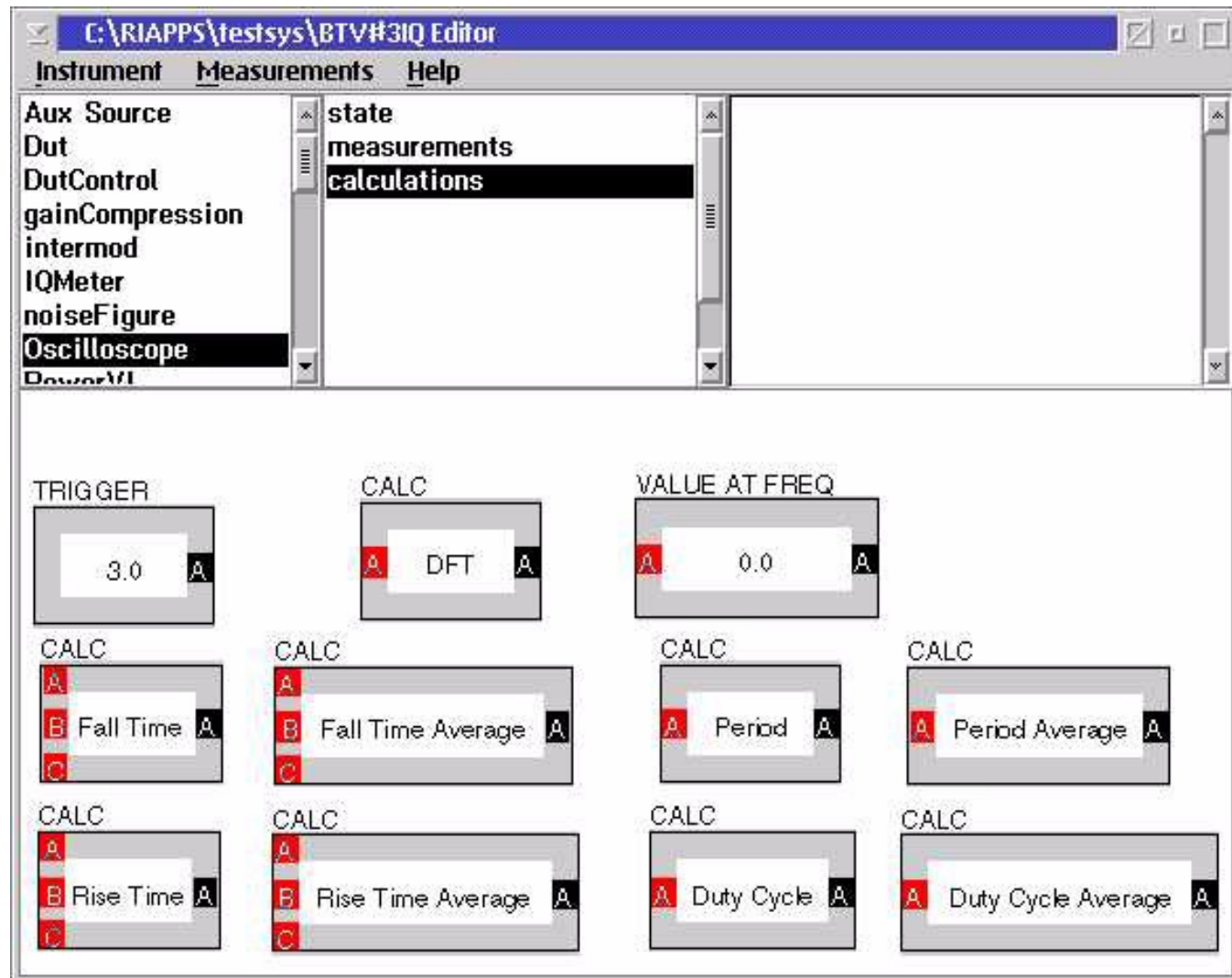


Oscilloscope; Measurement



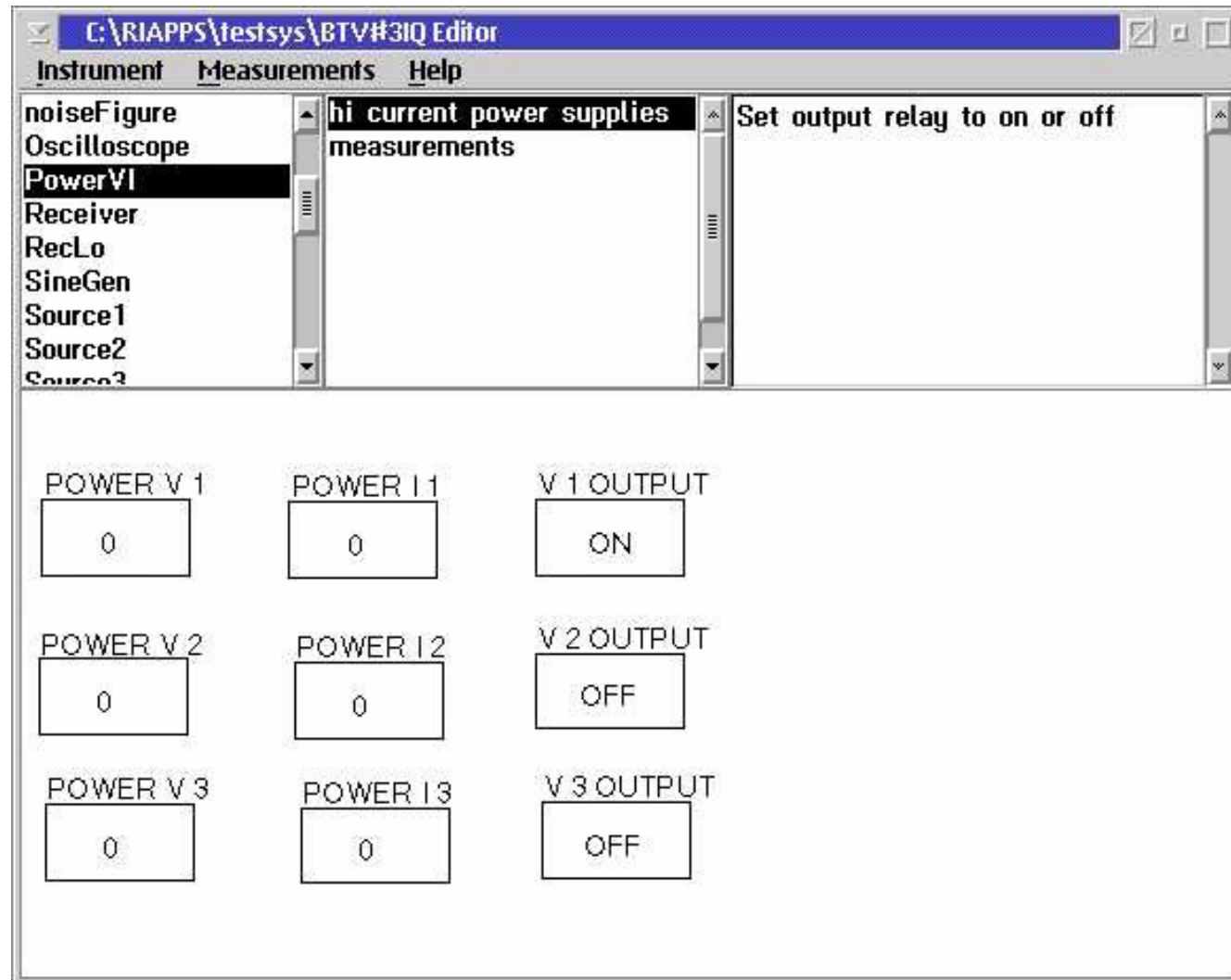


Oscilloscope; Calculations



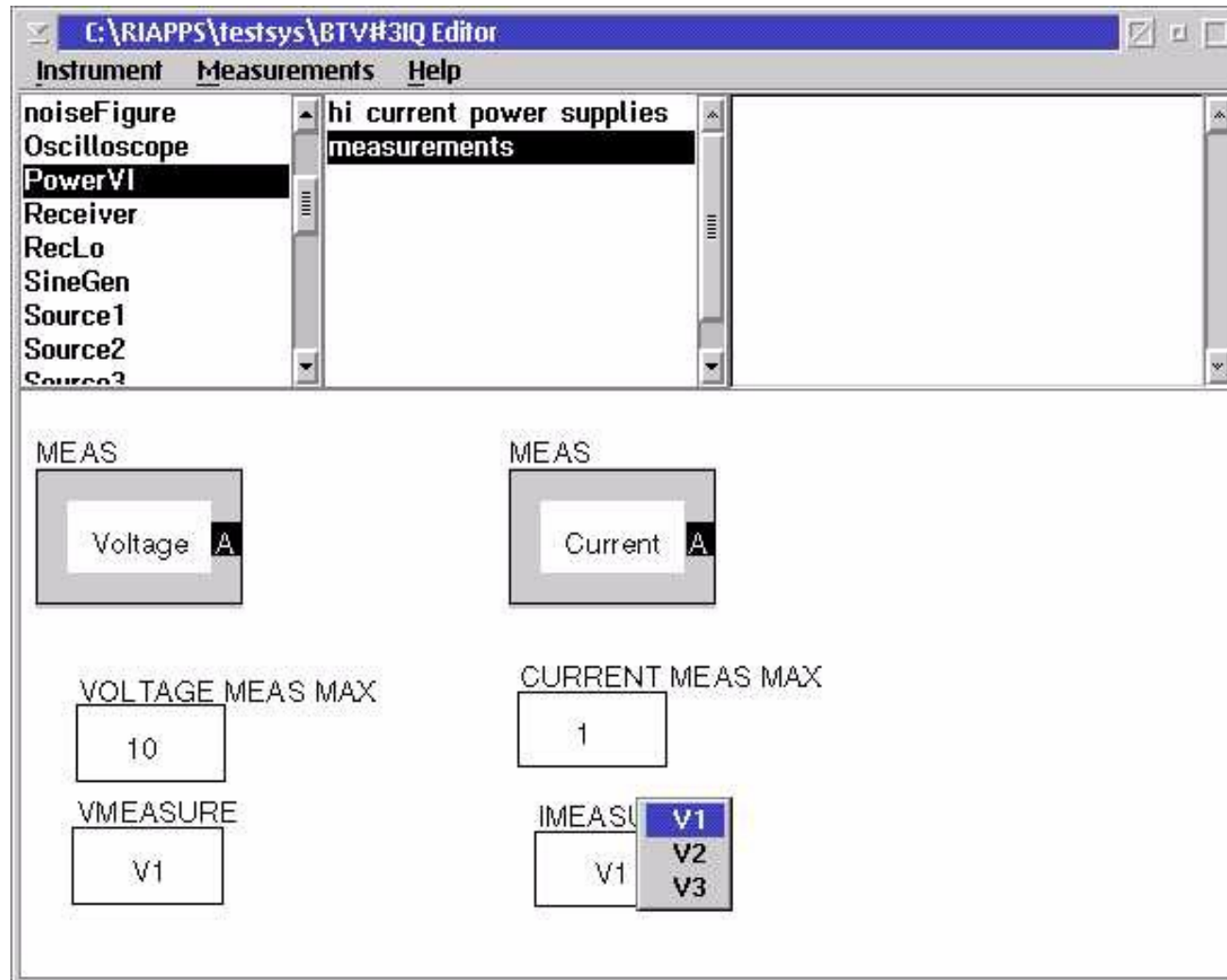


Power VI (Hi-Current Supplies)





Power VI; Measurement

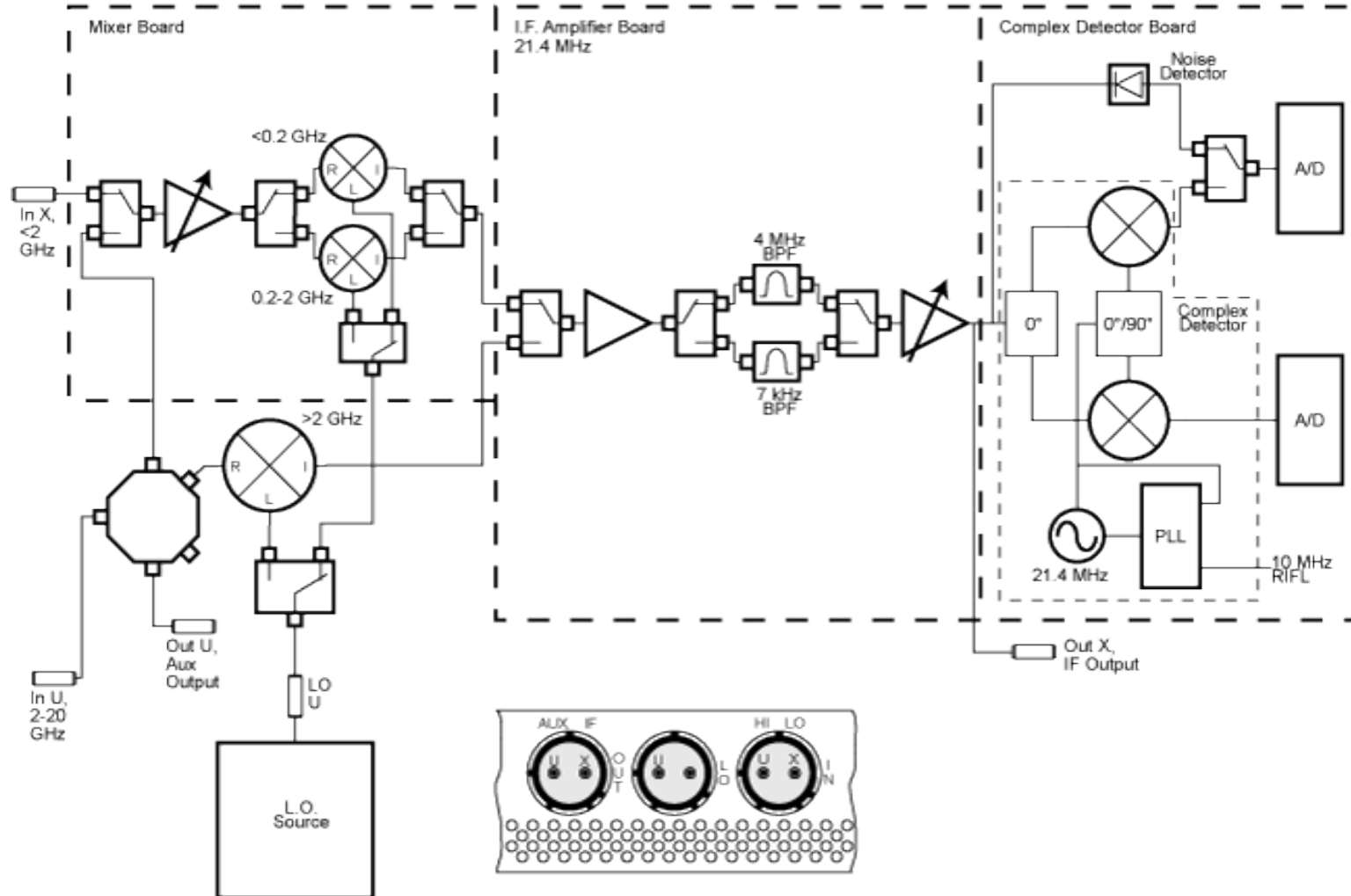




Receiver Block Diagram

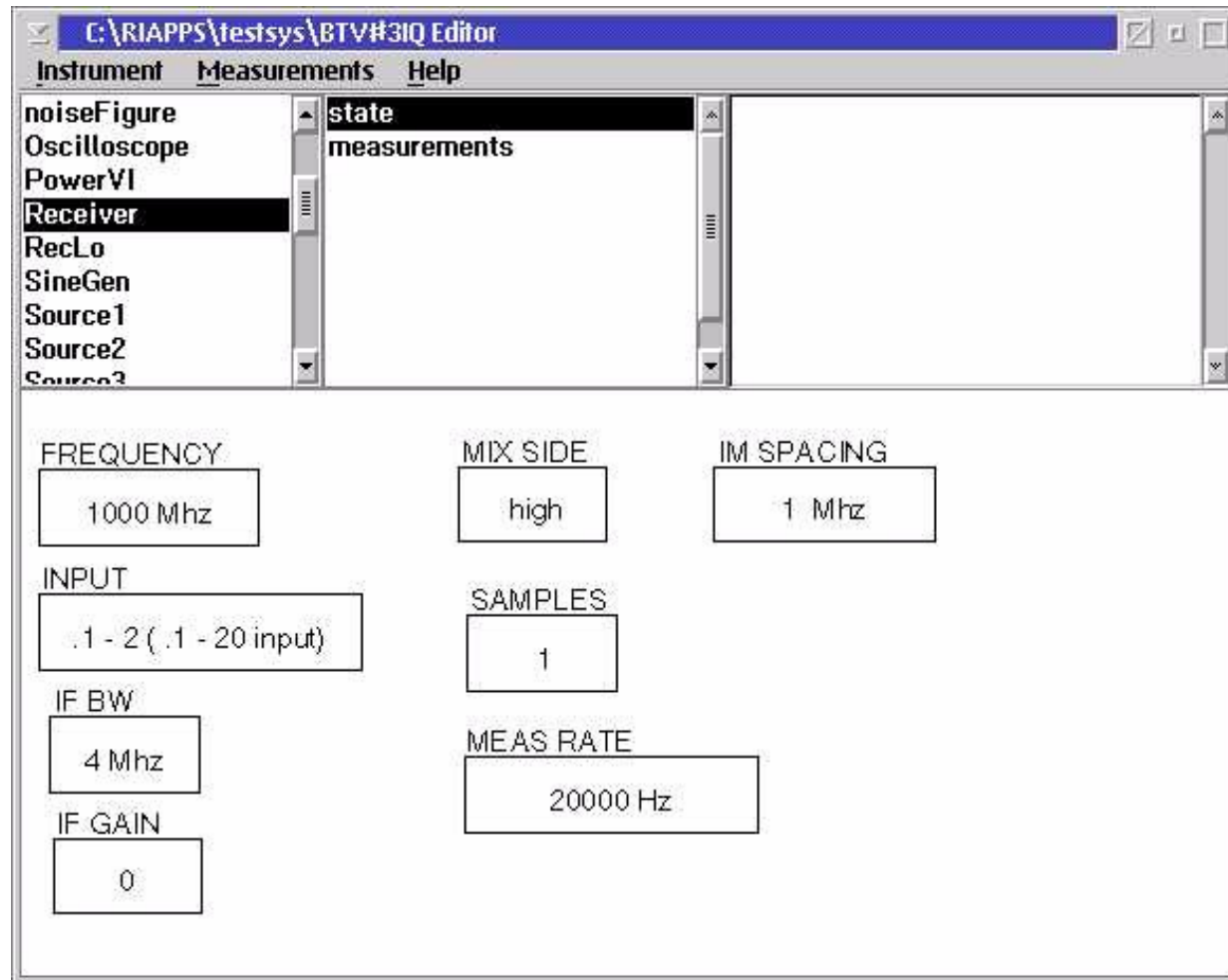
Roos Instruments, Inc - Cassini
Block Diagram, Measure - Receiver
RI8553A

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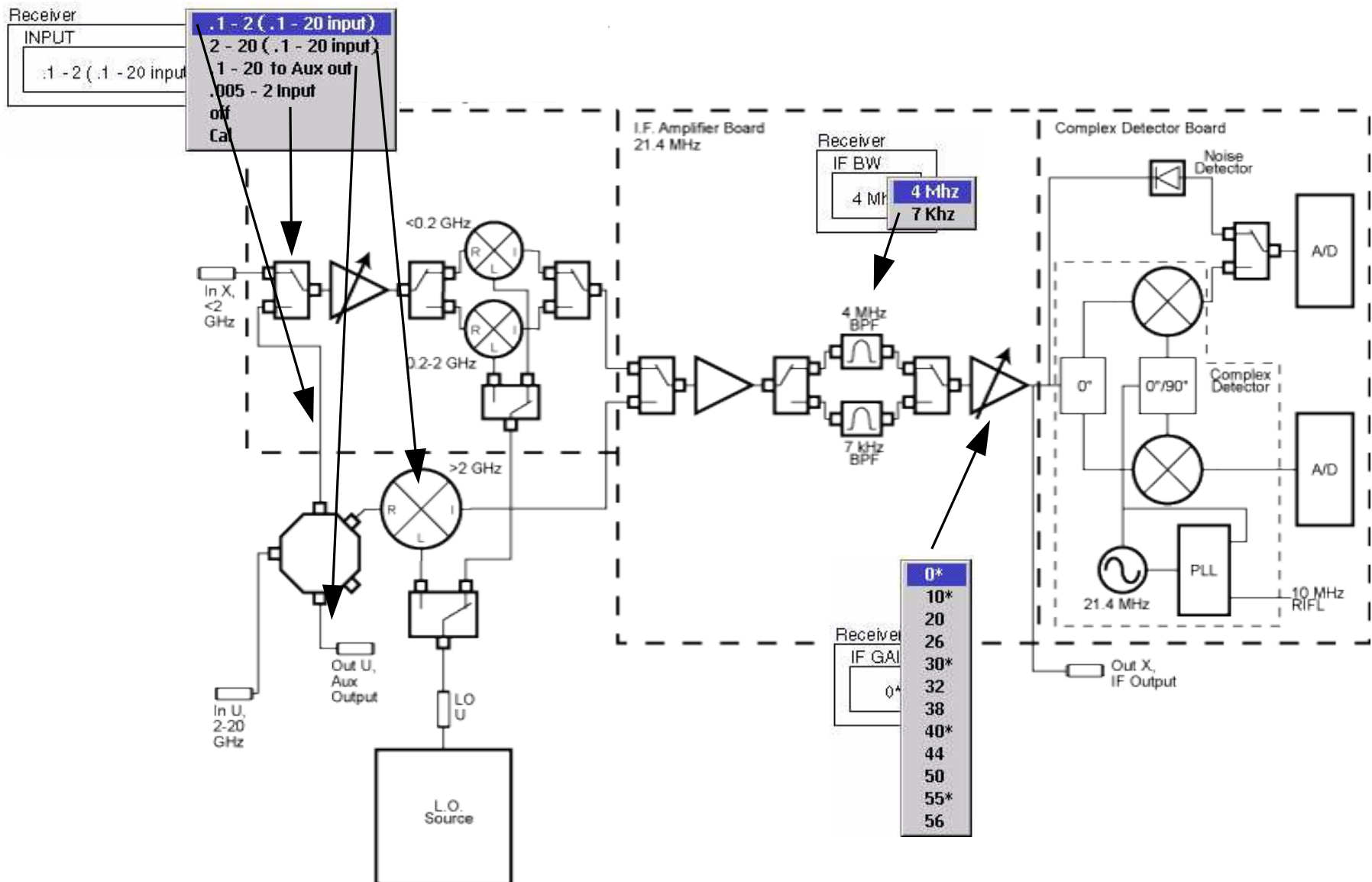


Receiver; State



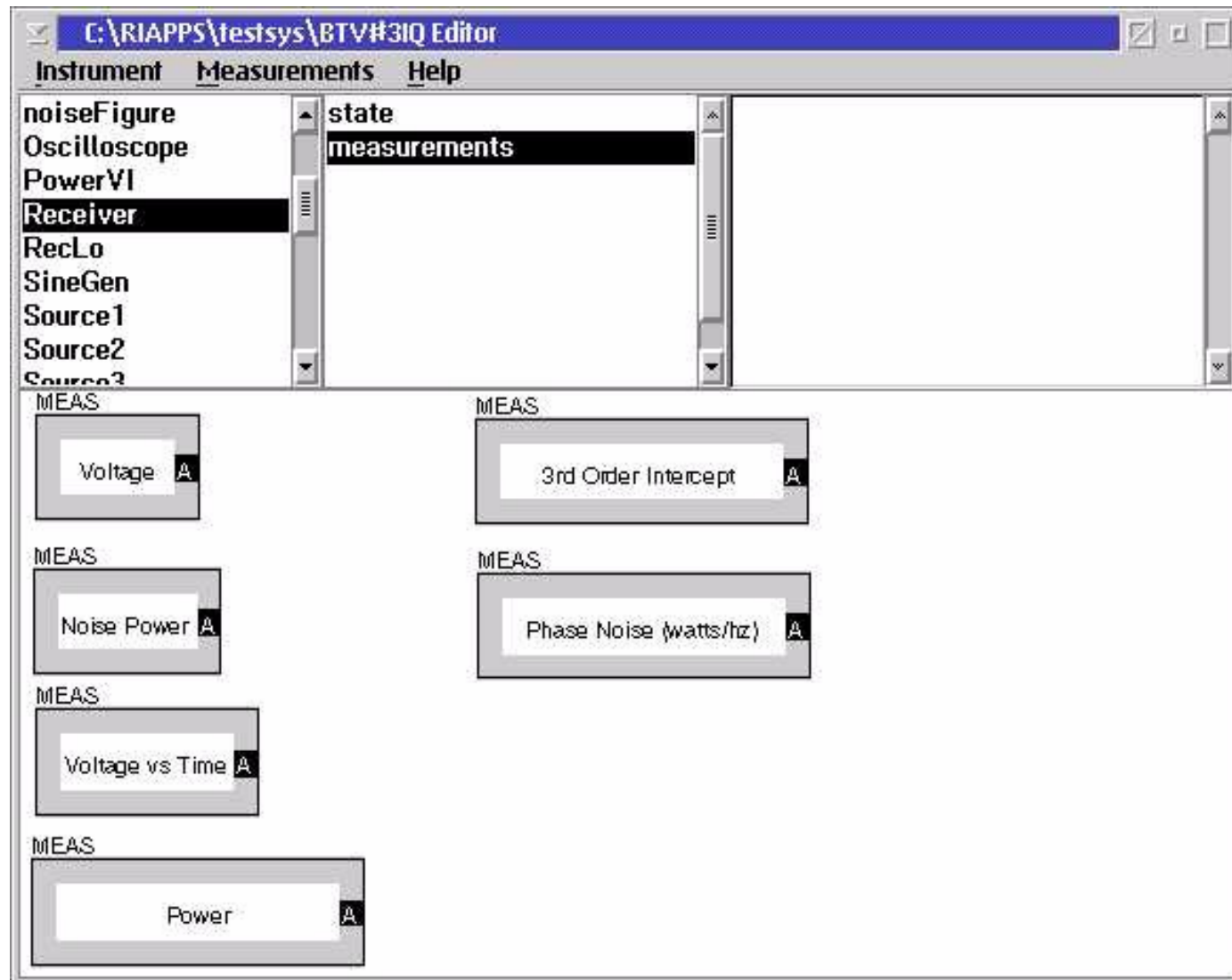


Receiver Control



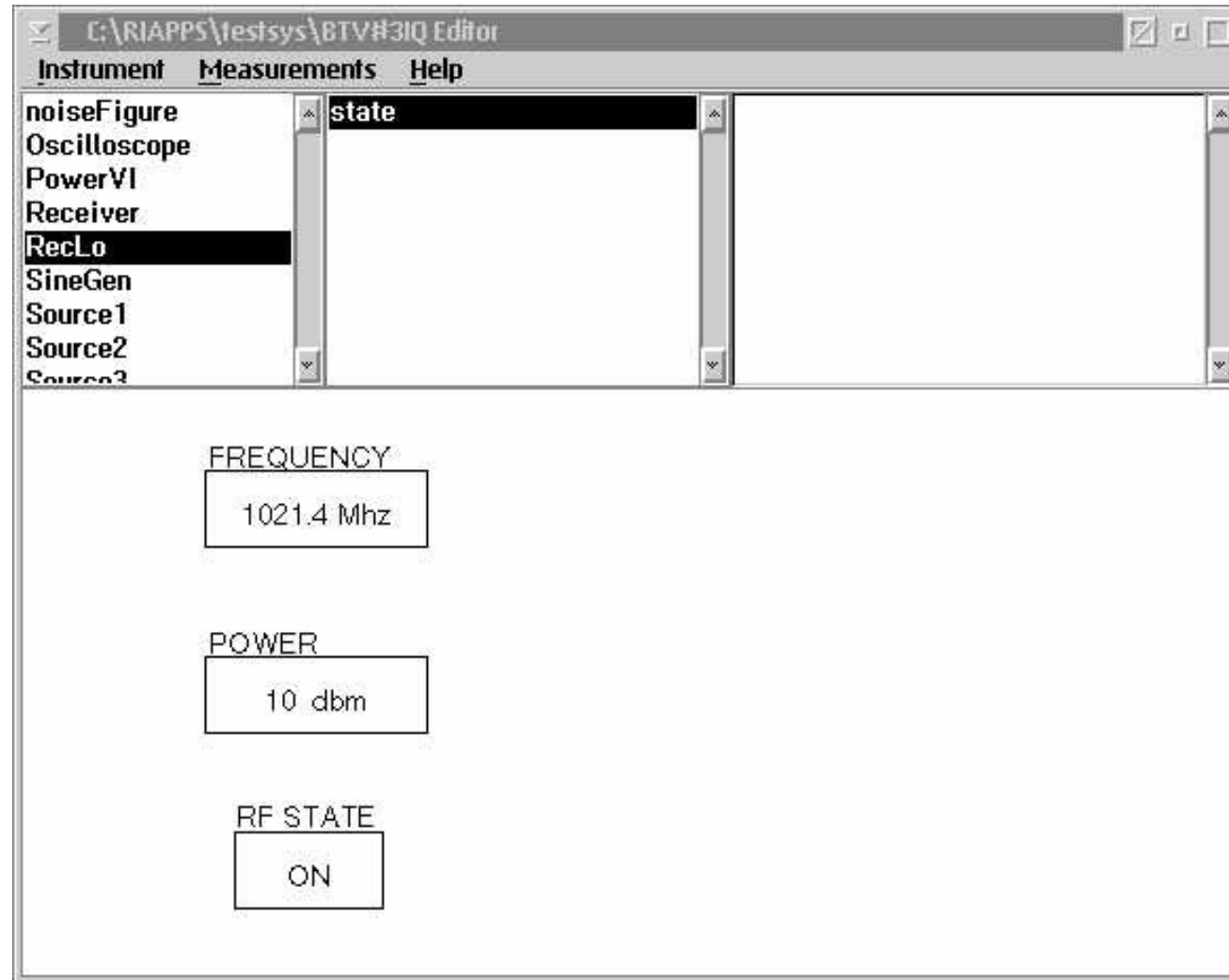


Receiver; Measurement



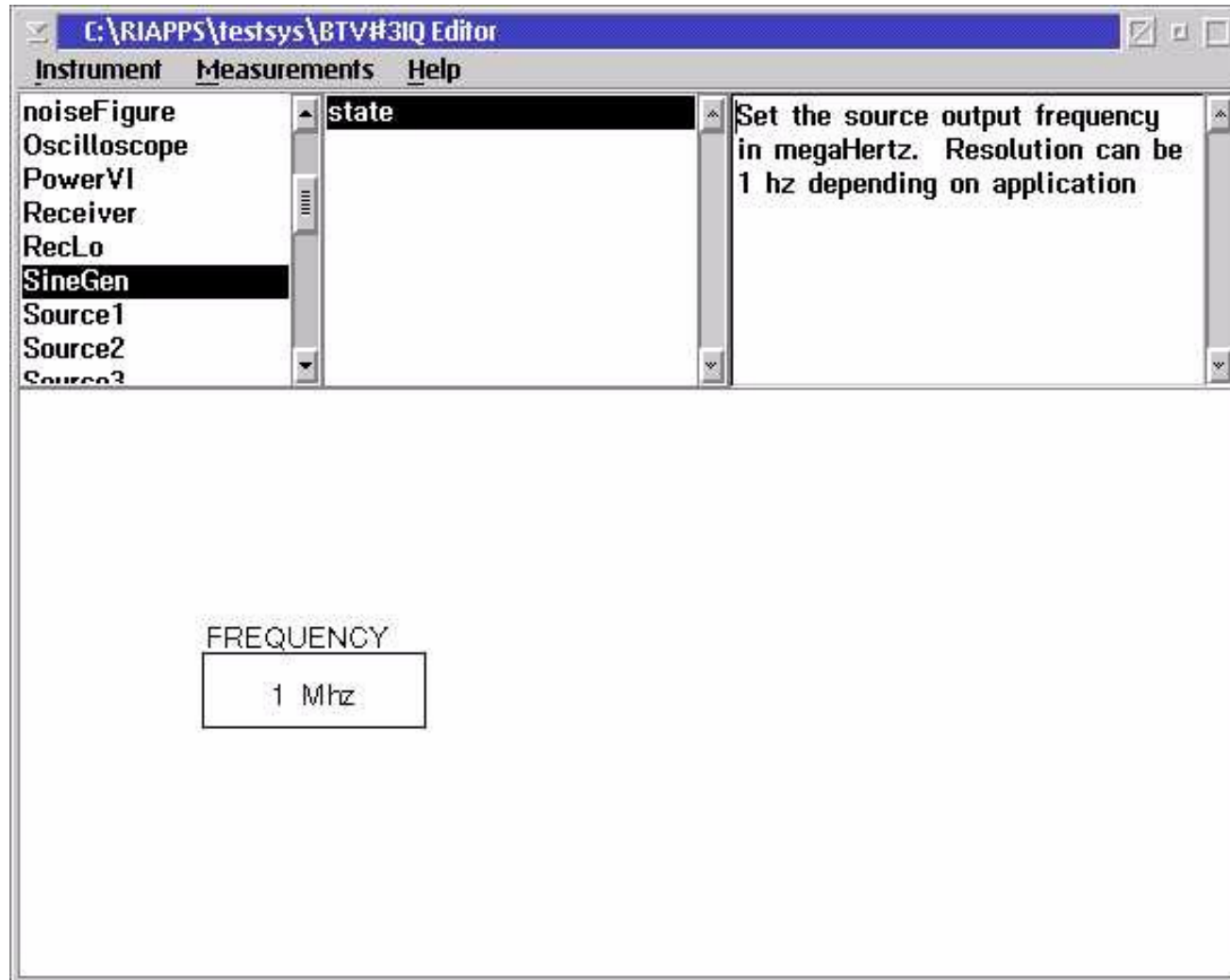


Receiver LO (System Oscillator)



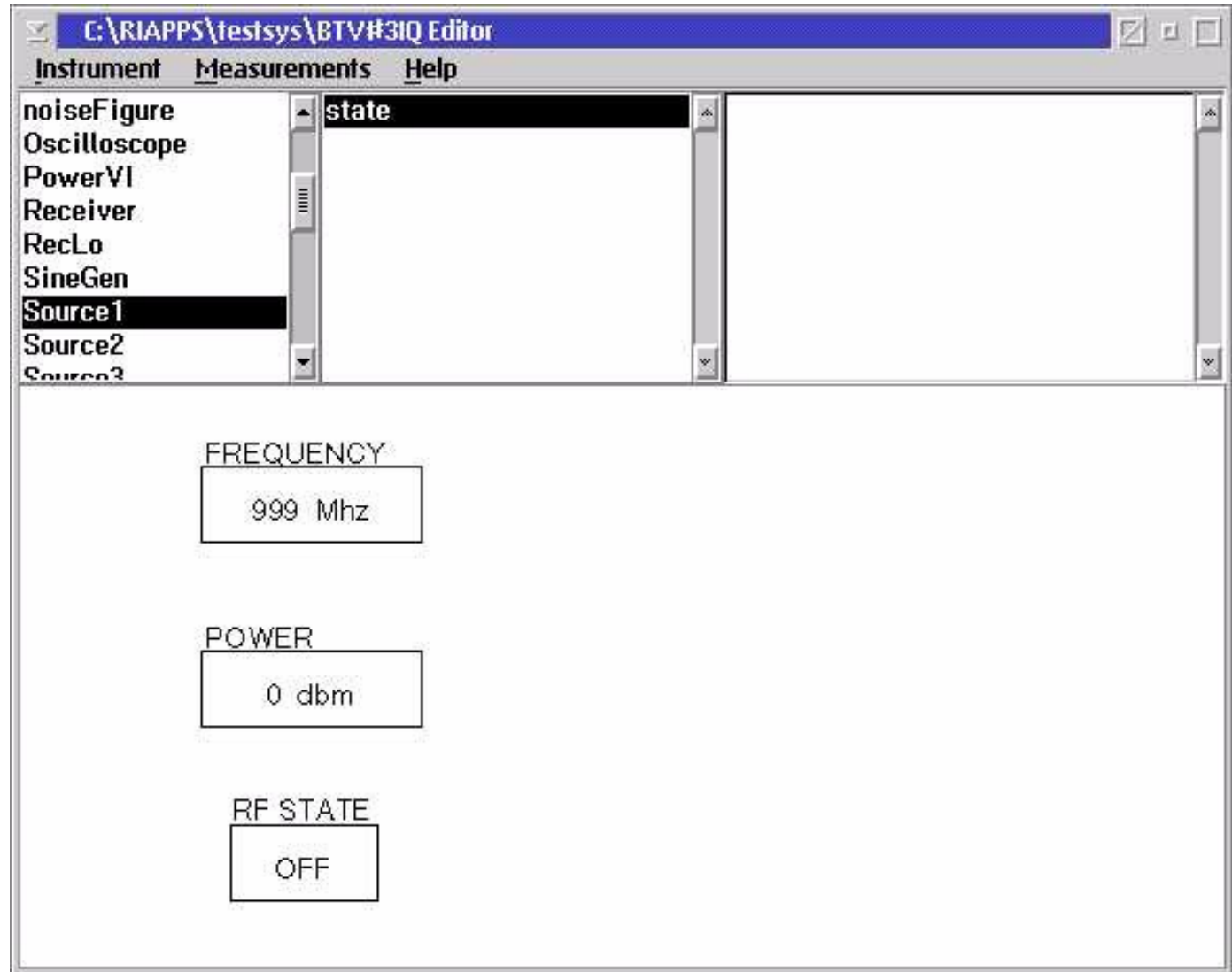


SineGen (Low Phase Noise)





Sources 1, 2, 3, and 4

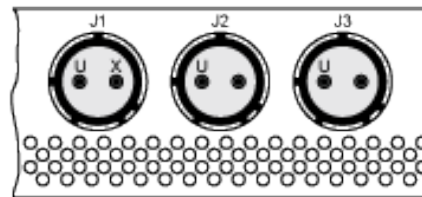
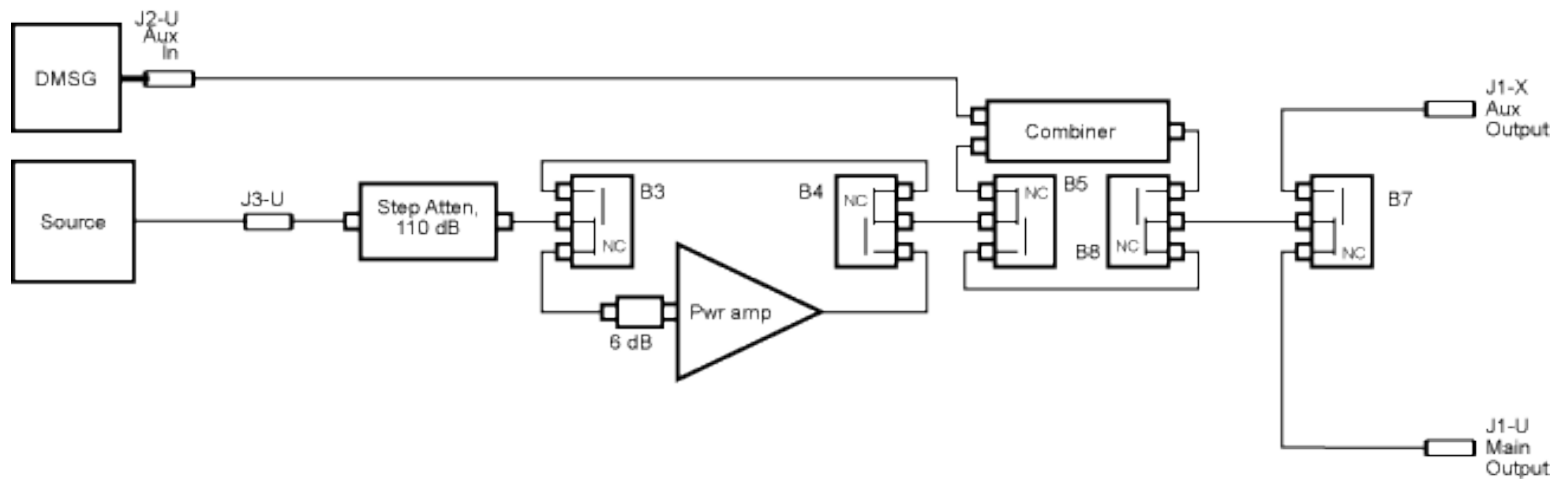




SRC12 Output

Roos Instruments, Inc - Cassini
Block Diagram, Source/Amp Attenuator
RI8555A

2007-2-6
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SRC12 Output

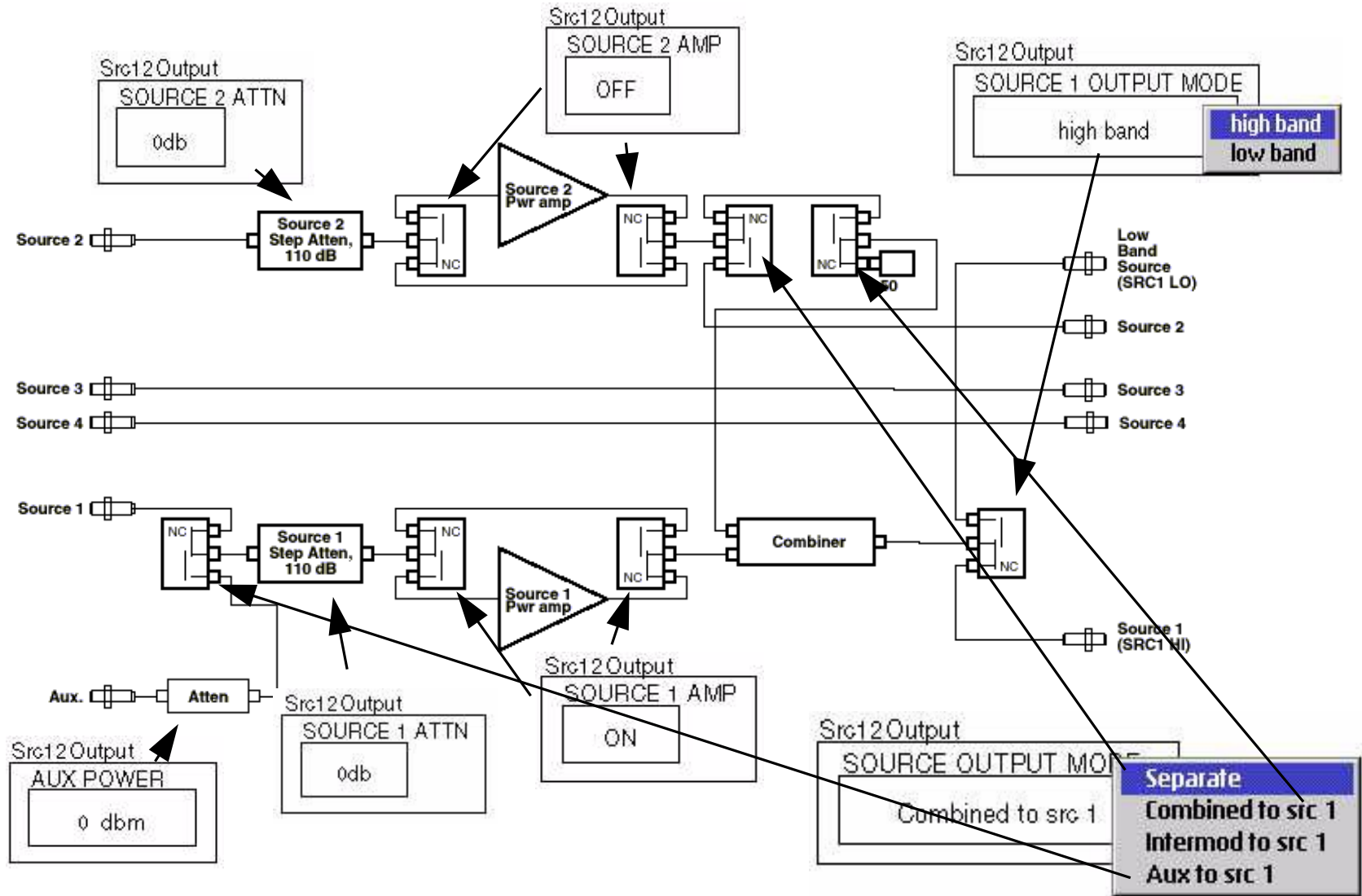
The screenshot shows the 'C:\RIAPPS\testsys\BTVM3IQ Editor' window. The left sidebar lists various components: SineGen, Source1, Source2, Source3, Source4, Src12Output (highlighted), StaticDigital, System, Testhead, vna, and Waveform. The main area displays the configuration for 'state'.

Configuration parameters for SRC12 Output:

- INTERMOD TRACKING: OFF
- INTERMOD FREQ SPACING: 0 Mhz
- INTERMOD POWER SPACING: 0 db
- AUX POWER: 0 dbm
- SOURCE 1 ATTN: 0db
- SOURCE 1 AMP: OFF
- SOURCE 2 ATTN: 0db
- SOURCE 2 AMP: OFF
- SOURCE OUTPUT MODE: Combined to src 1
- SOURCE 1 OUTPUT MODE: high band



SRC12 Control





Static Digital; DB Lines

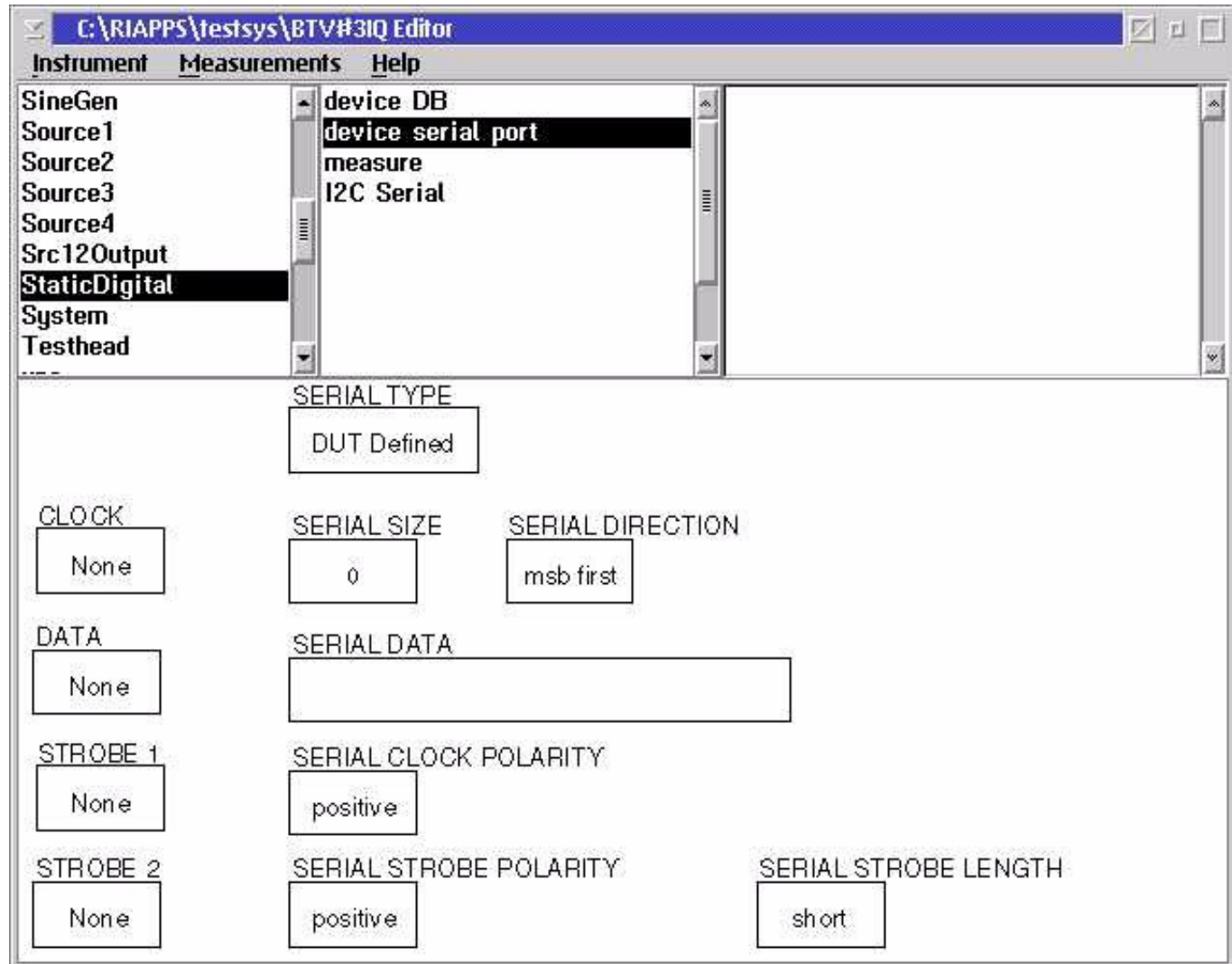
The screenshot shows the BTV#3IQ Editor software interface. The title bar reads "C:\RIAPPS\testsys\BTV#3IQ Editor". The menu bar includes "Instrument", "Measurements", and "Help". On the left, a tree view shows the following items: SineGen, Source1, Source2, Source3, Source4, Src12Output, StaticDigital (highlighted), System, and Testhead. The main window is divided into two panes. The top pane is a list box containing "device DB", "device serial port", "measure", and "I2C Serial", with "device DB" selected. The right pane contains the text "Select the connection to a data bit pin." Below these panes is a grid of controls for digital lines:

VOFF	VON	VOFF HIGH BYTE	VON HIGH BYTE
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
DB 1 <input type="text" value="open"/>	DB 5 <input type="text" value="off"/>	DB 9 <input type="text" value="open"/>	DB 13 <input type="text" value="open"/>
DB 2 <input type="text" value="open"/>	DB 6 <input type="text" value="off"/>	DB 10 <input type="text" value="open"/>	DB 14 <input type="text" value="open"/>
DB 3 <input type="text" value="open"/>	DB 7 <input type="text" value="open"/>	DB 11 <input type="text" value="open"/>	DB 15 <input type="text" value="open"/>
DB 4 <input type="text" value="open"/>	DB 8 <input type="text" value="open"/>	DB 12 <input type="text" value="open"/>	DB 16 <input type="text" value="open"/>

A context menu is open over the "DB 13" control, showing three options: "open" (highlighted in blue), "on", and "off".

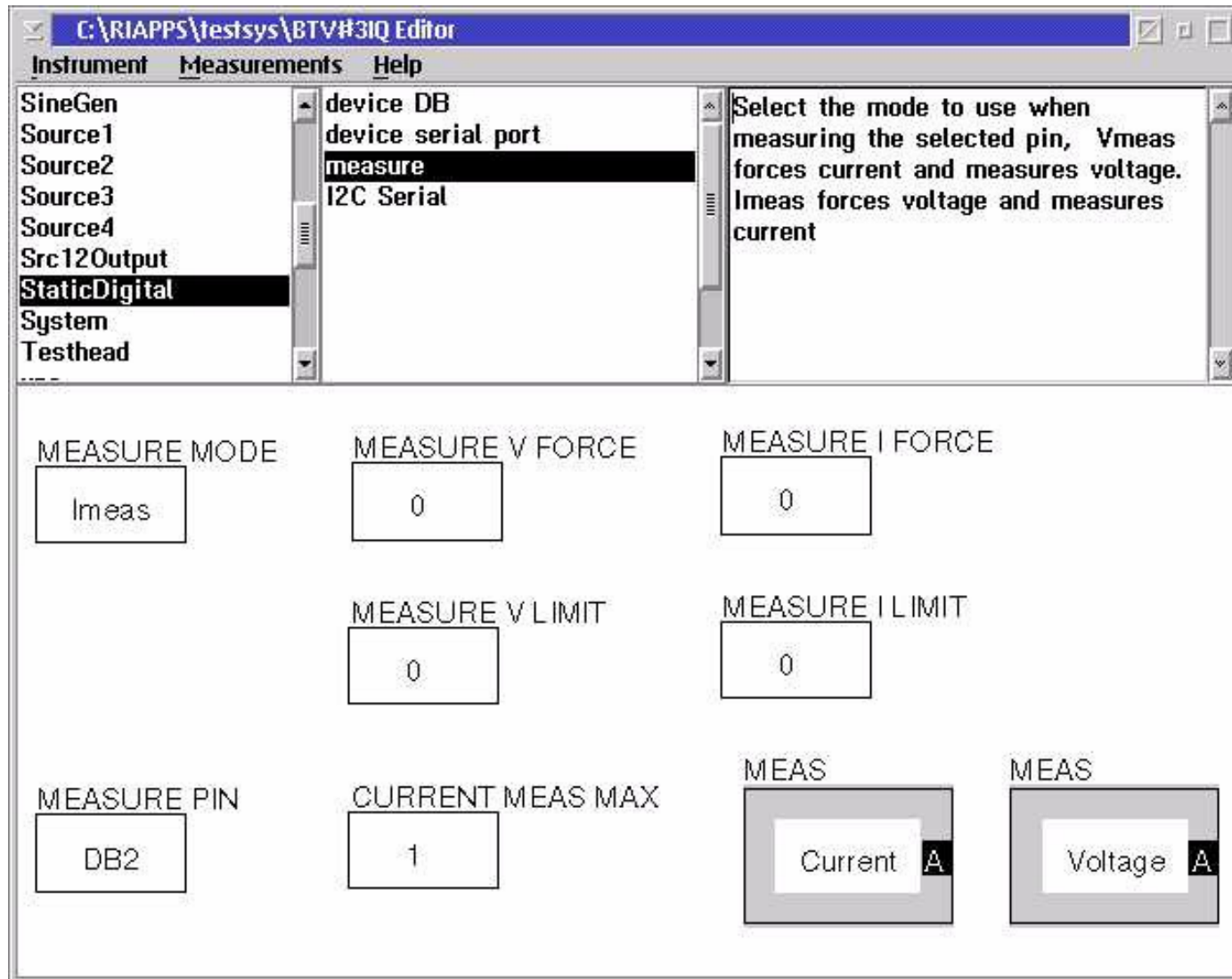


Static Digital; Device Serial Port



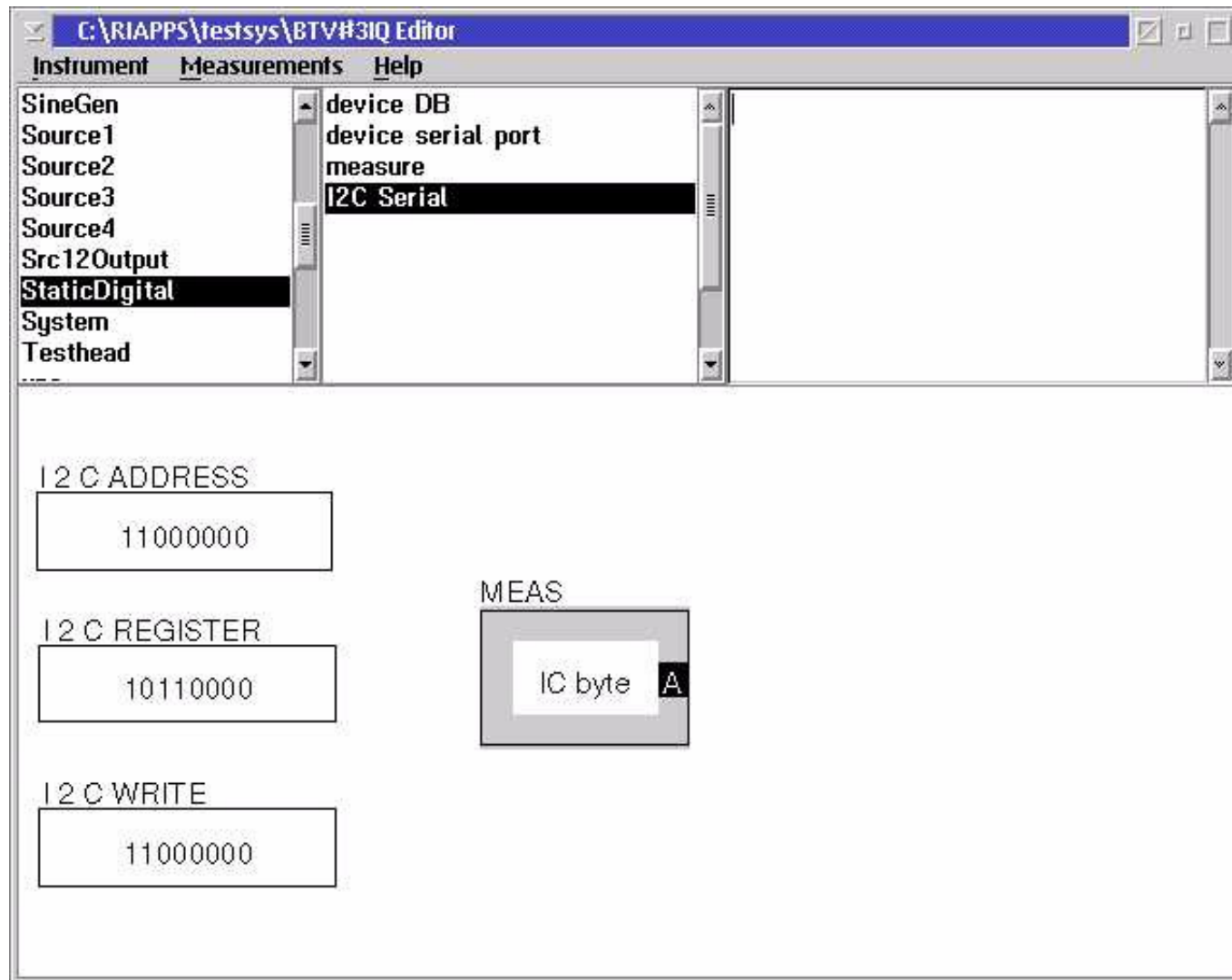


Static Digital; Measurement





Static Digital; I2C





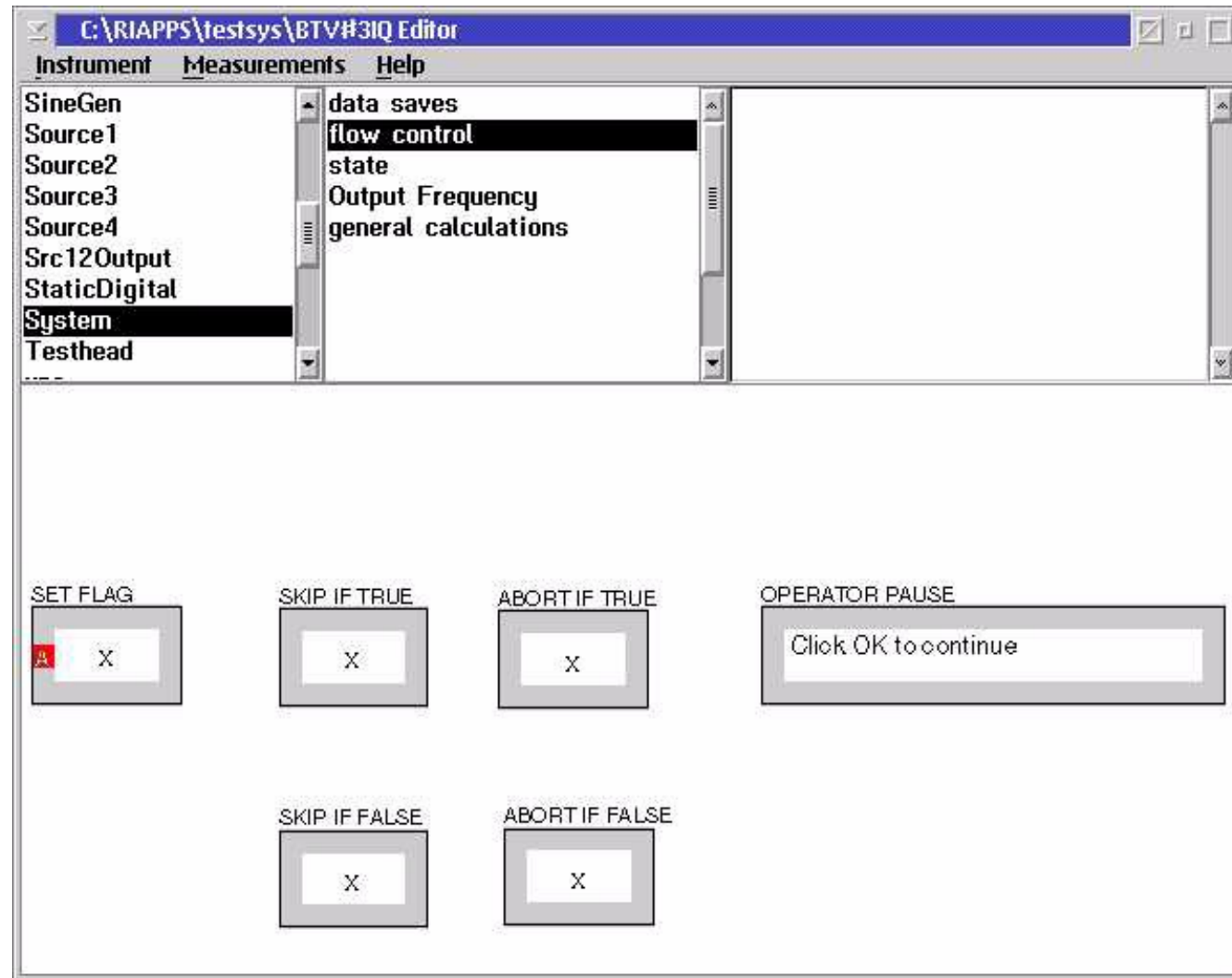
System; Data Saves

The screenshot shows the BTV#3IQ Editor software interface. The title bar indicates the path: C:\RIAPPS\testsys\BTV#3IQ Editor. The menu bar includes Instrument, Measurements, and Help. On the left, a tree view lists components: SineGen, Source1, Source2, Source3, Source4, Src12Output, StaticDigital, System (highlighted), and Testhead. The right pane shows a list of categories: data saves (highlighted), flow control, state, Output Frequency, and general calculations. Below the tree view is a grid of 16 control panels, each with a label and a button:

LOGAL VAR SOURCE <input type="checkbox"/> X <input type="checkbox"/> A	ARRAY L.V. <input type="checkbox"/> arrayX <input type="checkbox"/> A	CAL FACTOR <input type="checkbox"/> None <input type="checkbox"/> A	ARRAY L.V. <input type="checkbox"/> X <input type="checkbox"/> A
INSTR STATE SOURCE <input type="checkbox"/> None <input type="checkbox"/> A	LOCAL VAR SAVE <input type="checkbox"/> X <input type="checkbox"/> A	CAL DATA <input type="checkbox"/> cal <input type="checkbox"/> A	
SAVE FORMAT <input type="checkbox"/> NoName <input type="checkbox"/> A	VECTOR L.V. <input type="checkbox"/> X <input type="checkbox"/> A	SORTED LV SAVE <input type="checkbox"/> X <input type="checkbox"/> A	INDEXED BY? <input type="checkbox"/> X <input type="checkbox"/> A
SAVE ADJUSTED <input type="checkbox"/> NoName <input type="checkbox"/> A	TAGGED L.V. <input type="checkbox"/> X <input type="checkbox"/> A	TAGGED L.V. <input type="checkbox"/> X <input type="checkbox"/> A	LOCAL VAR PROMPT <input type="checkbox"/> X <input type="checkbox"/> A

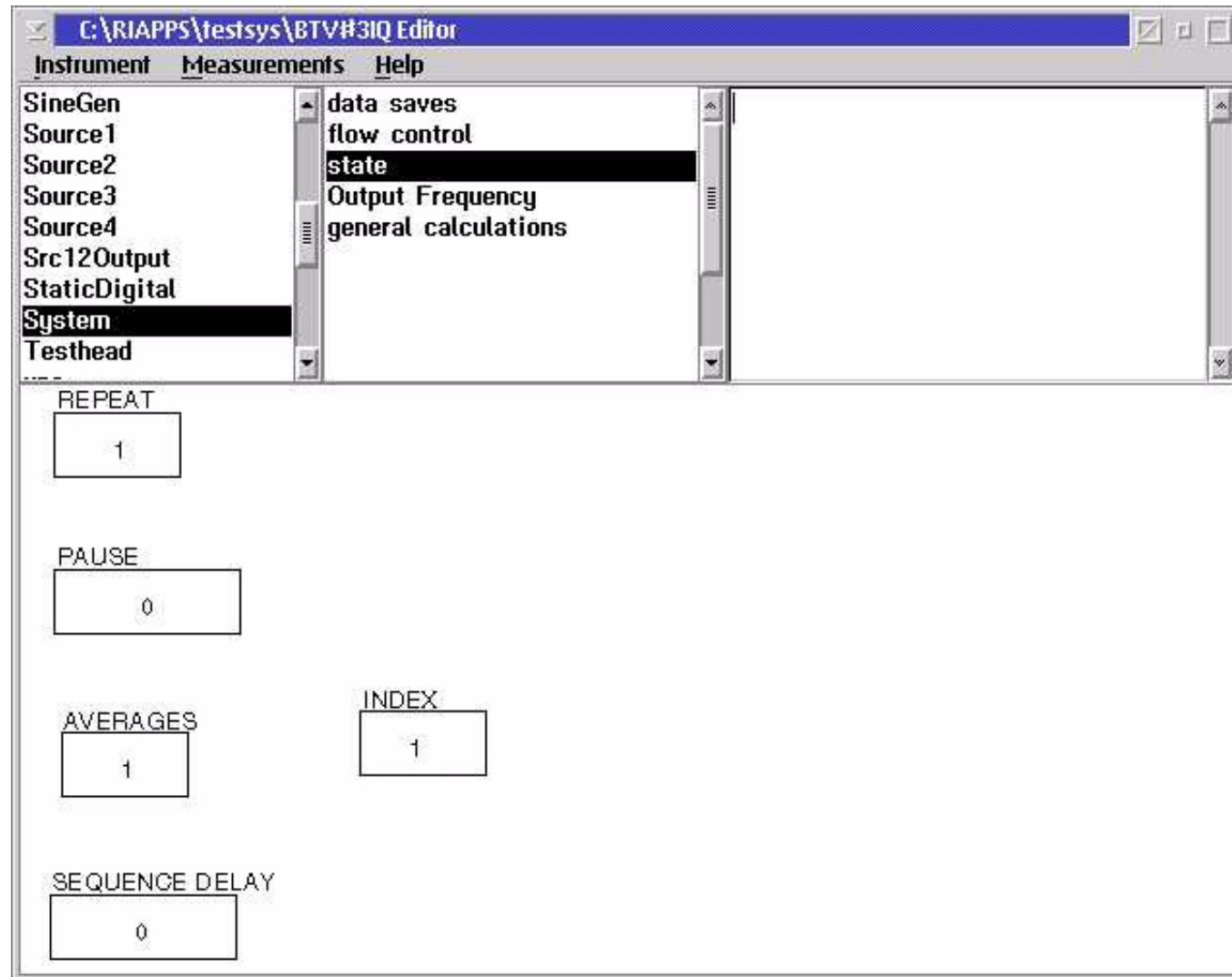


System; Flow Control



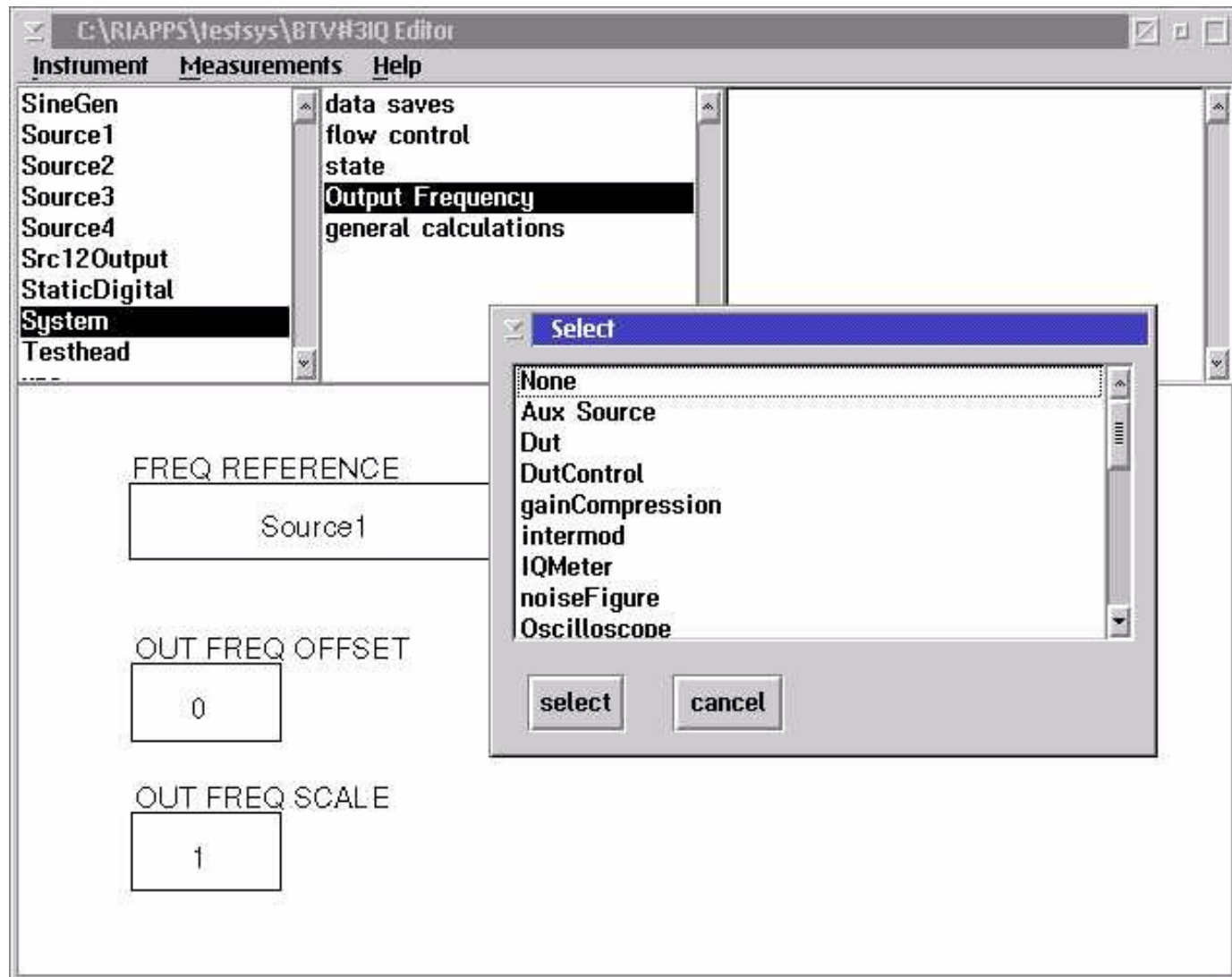


System; State



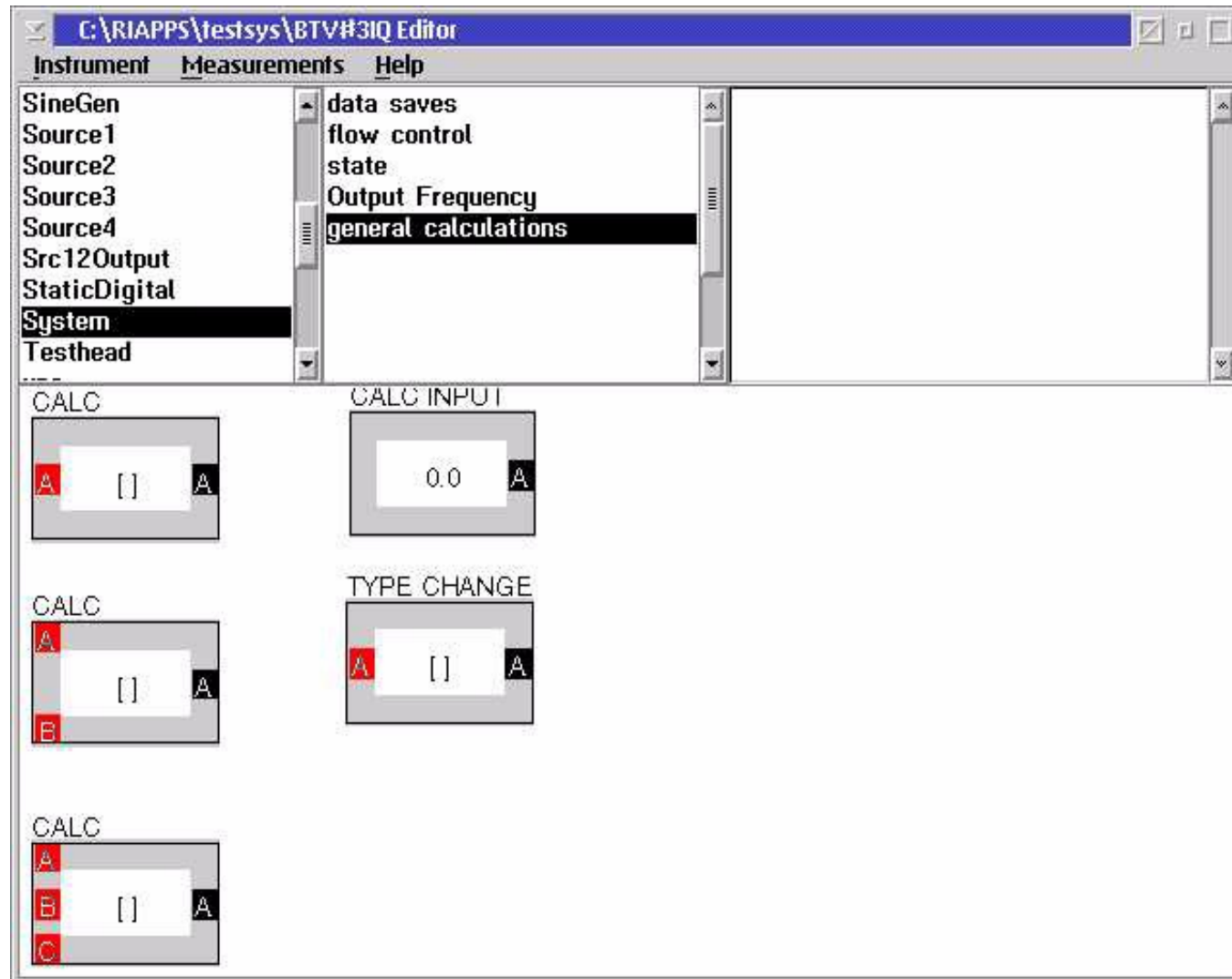


System; Output Frequency





System; General Calculations





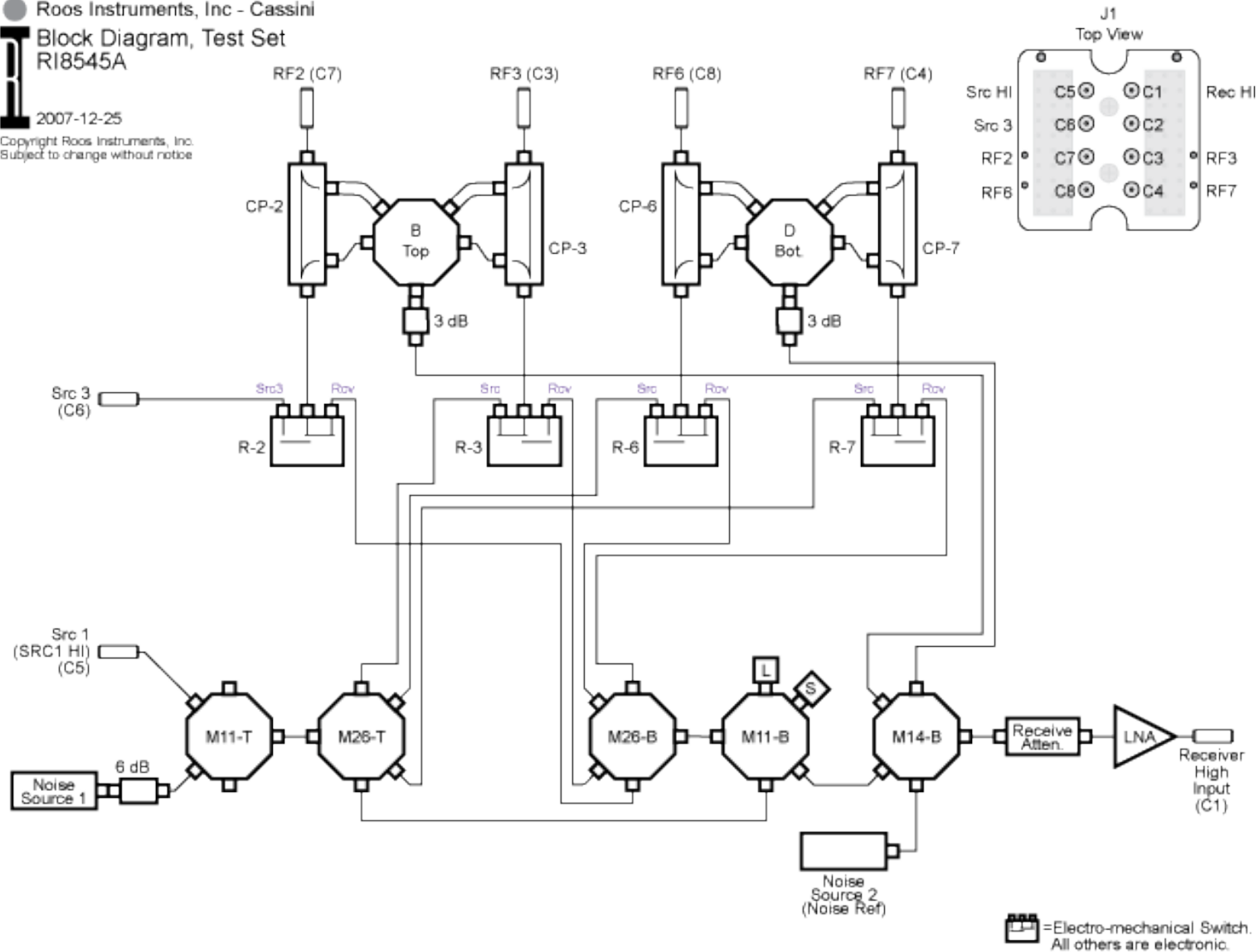
Testset Block Diagram

Roos Instruments, Inc - Cassini

Block Diagram, Test Set
RI8545A

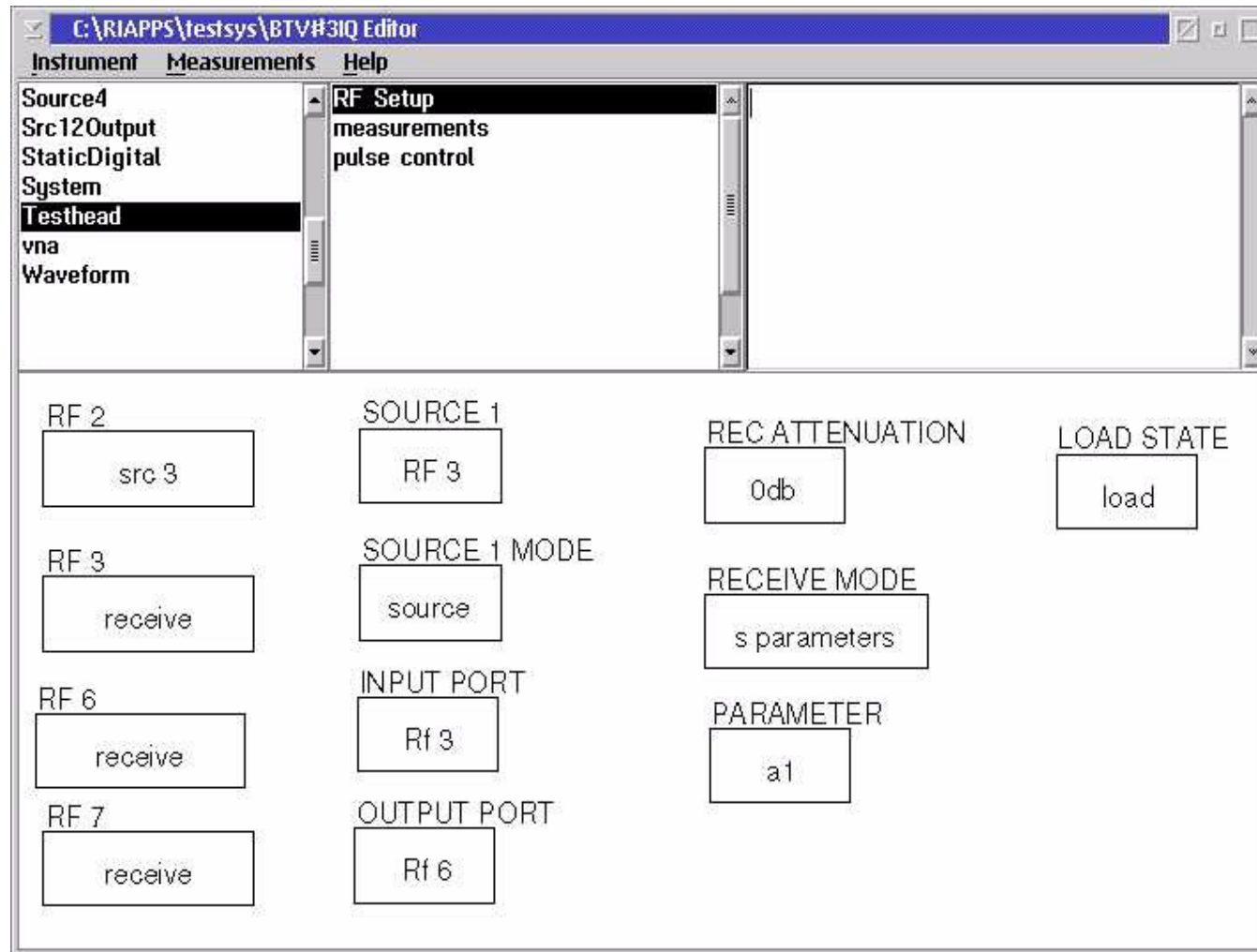
2007-12-25

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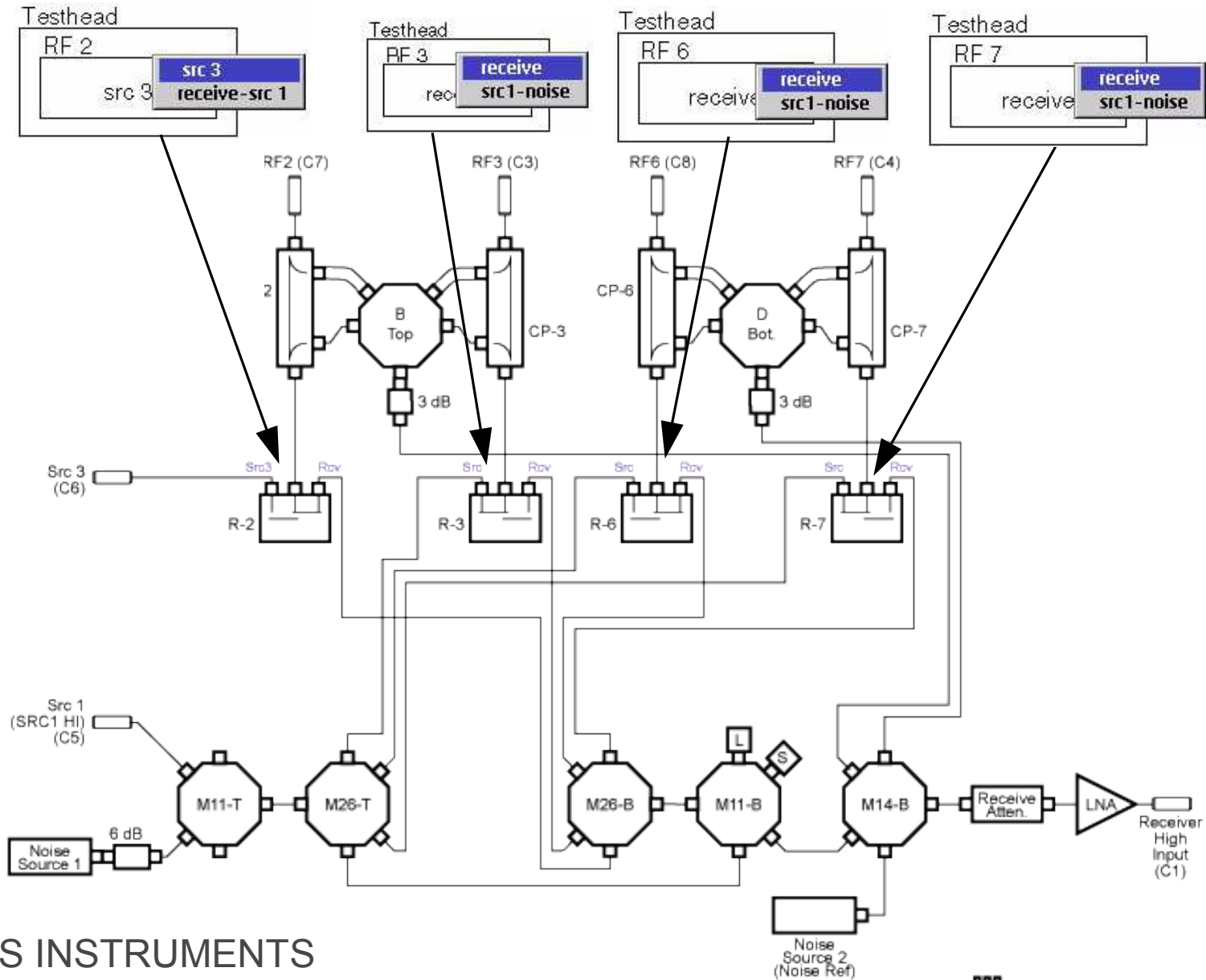


Testhead & Testset Editor



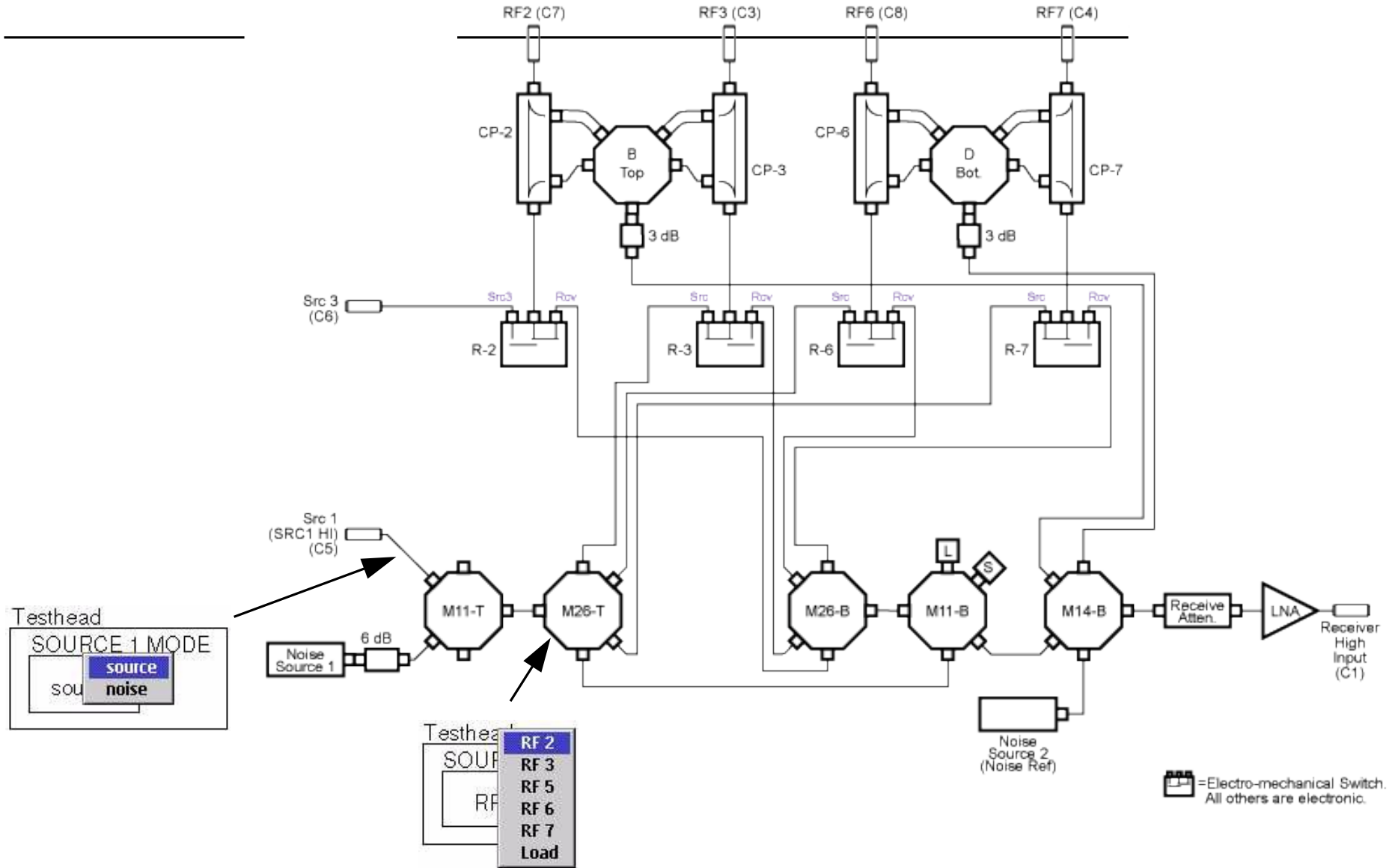


Port Set-up



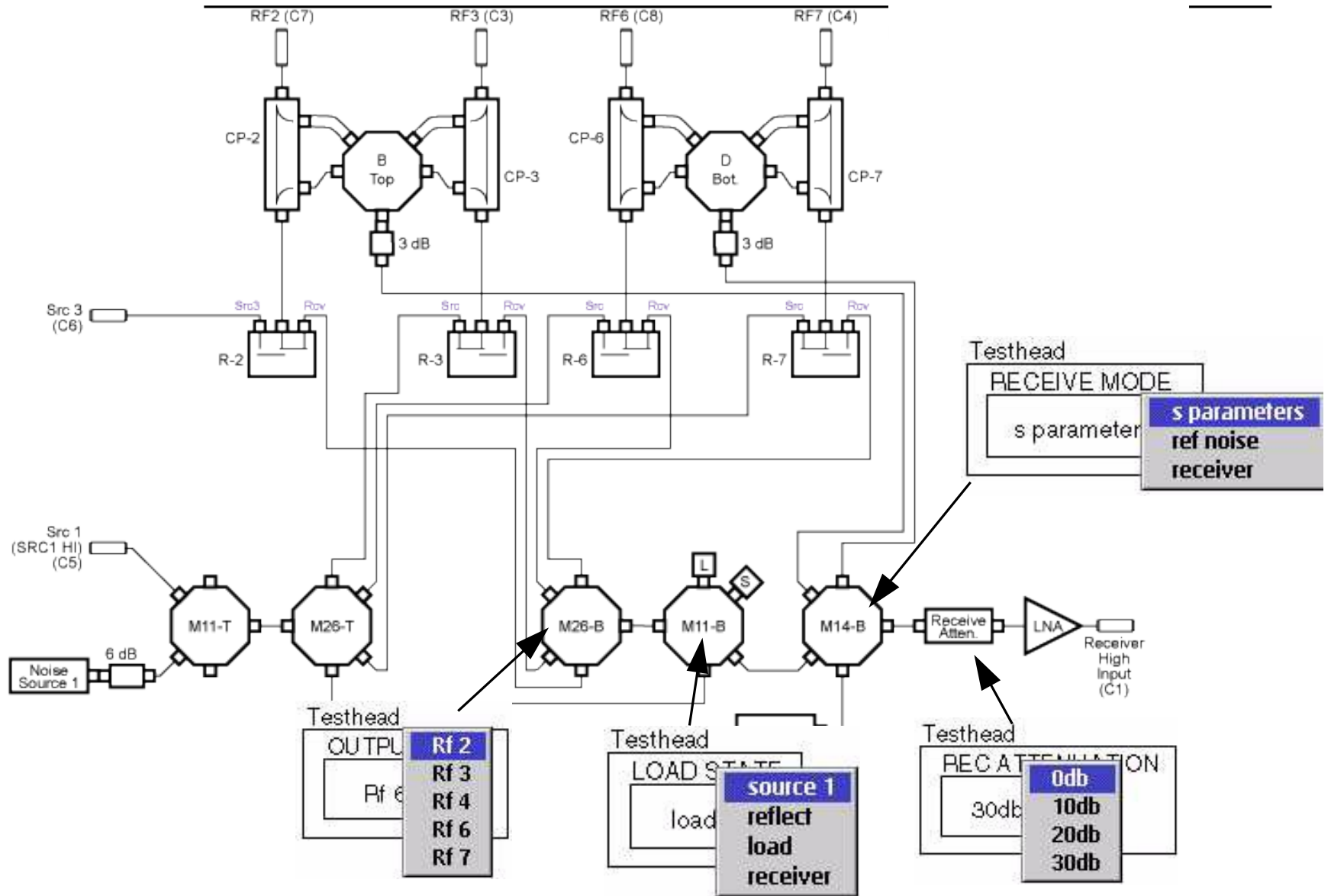


Stimulus



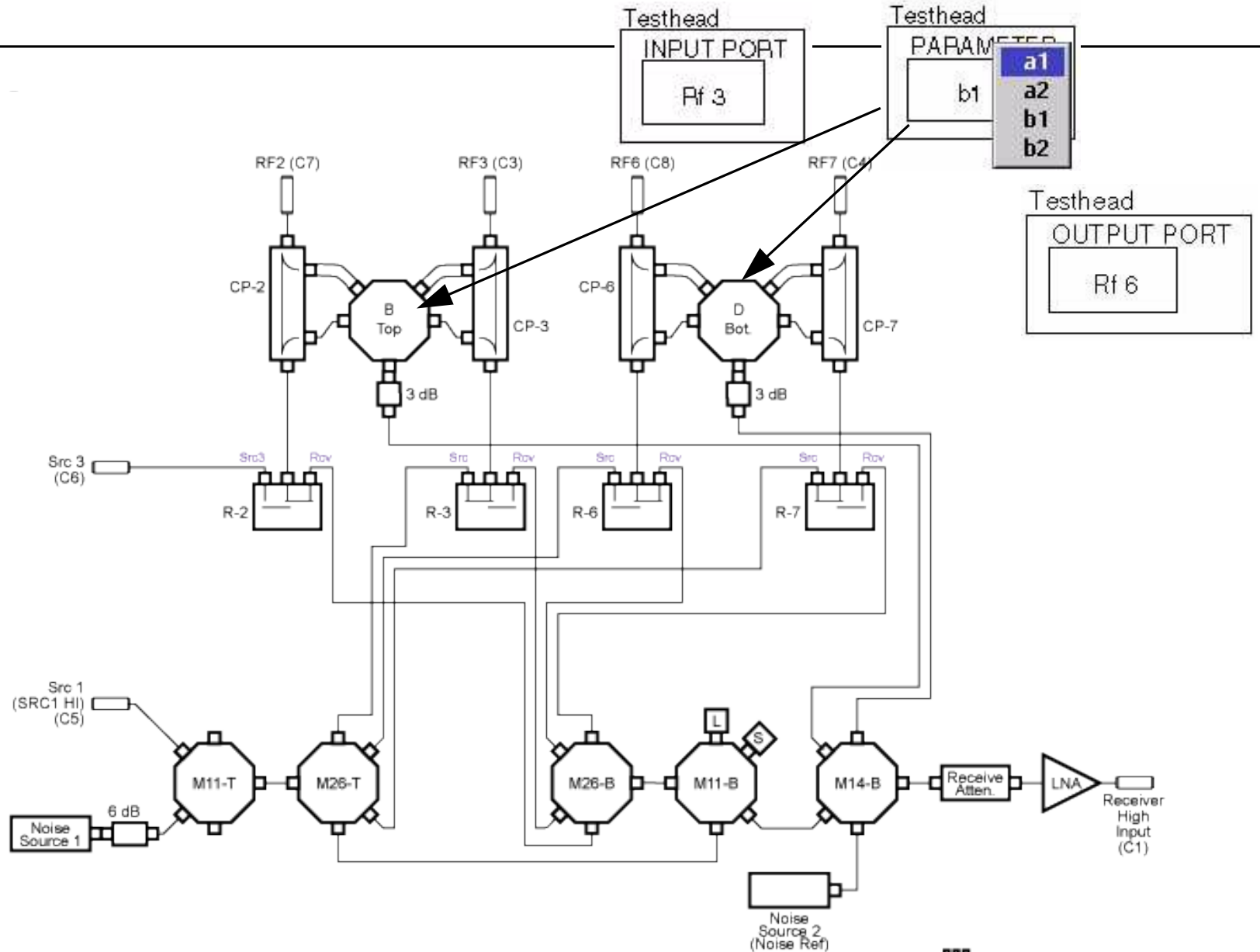


Receive





Sampled Waves





Testhead Measurements

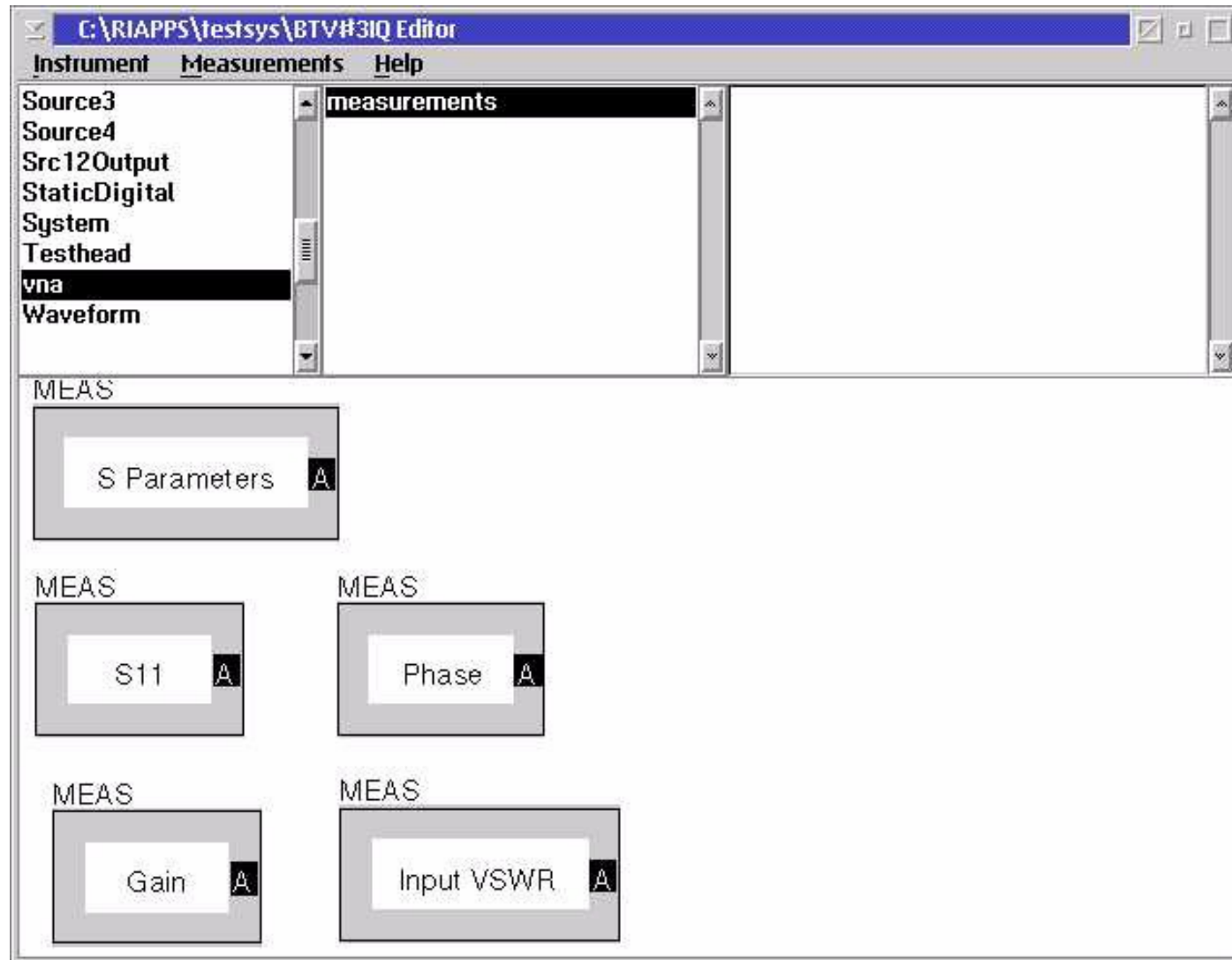
The screenshot displays the 'C:\RIAPPS\testsys\BTVM#3IQ Editor' window. The 'Measurements' menu is open, showing a tree view with 'Testhead' selected. Under 'Testhead', the following items are listed: 'RF Setup', 'measurements', and 'pulse control'. The 'measurements' item is currently selected.

The main workspace contains several measurement configuration boxes, each labeled 'MEAS' (except for the 'SPAR MODE' box):

- Wave Param at Input Freq [A]
- output power at rec freq [A]
- Conversion Gain [A]
- Wave Param at Output Freq [A]
- Input Power [A]
- Harmonics [A]
- Wave Param at Receive Freq [A]
- Output Power [A]
- SPAR MODE: unidirectional

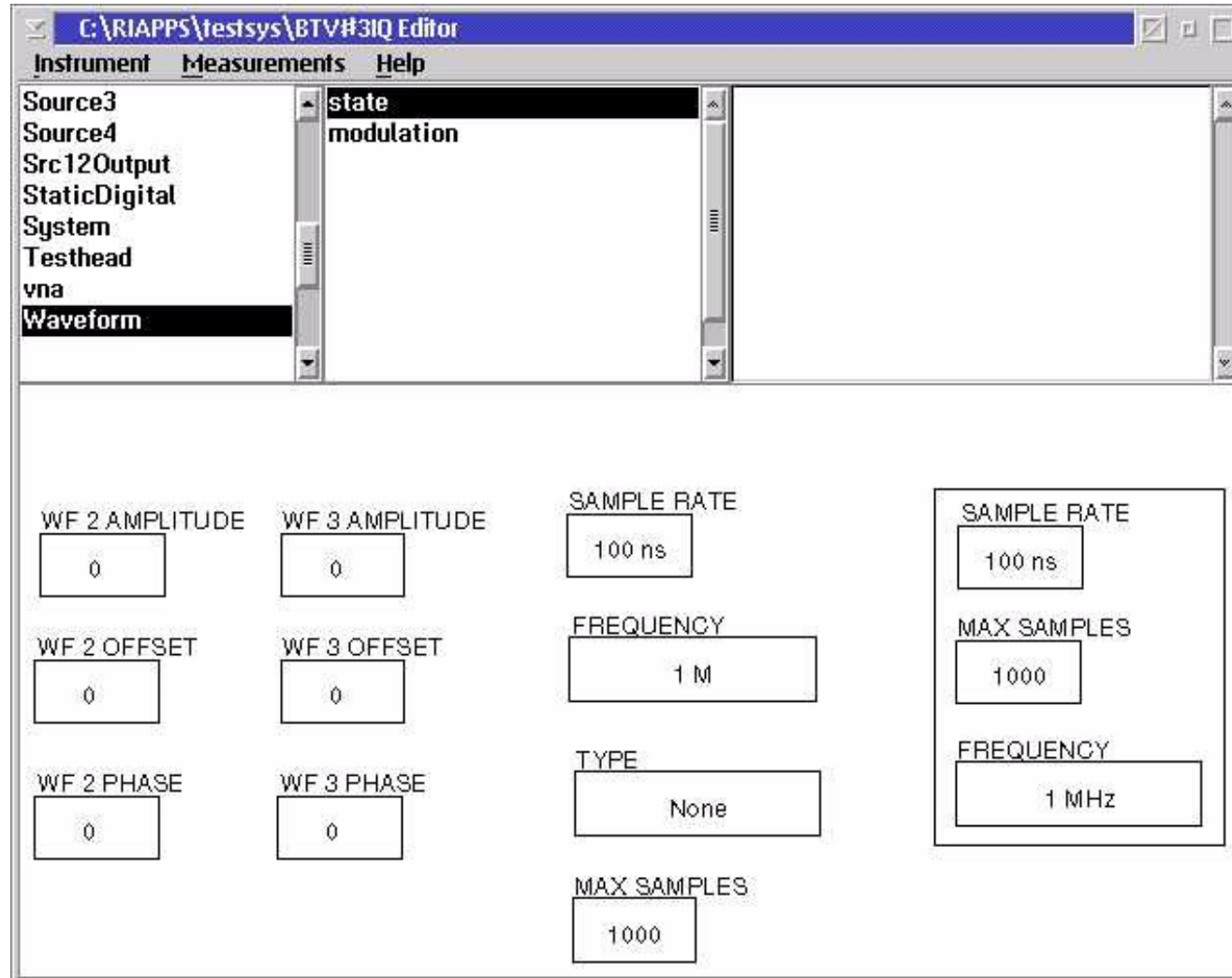


VNA; Measurements





Waveform (ARB); State





Waveform (ARB); Modulation

