

Standard for Vee

Instrument name, libraries names & addresses

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2 Contents

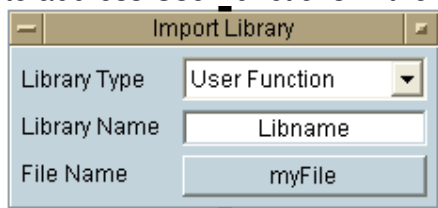
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3 Introduction

In order to make programming & reading of Agilent Vee programs easier this document describes the naming standard for Instrument Names, Library Names & Instrument Addresses in Vee programs.

4 Instrument Library Names / addresses

When programmers import Vee libraries they are given a name that are used as a header to address UserFunctions in the library.



Libname	Description	Instrument addresses
DCLoad	DC Electronic Load	
LogAna	Logic Analyzer	
NFA	Noise Figure Analyzer	7,8
NWA	Network Analyzer	16,17
Osc		
PA	Power Amplifier	
PM	Power Meter	
PSU	Power Supply Unit	5,6
SigGen	Signal Generator	19,20
SpecAna	Spectrum Analyzer	18
Switch/DAC		9
TempCham	Temperatur Chamber	
DMM	Digital Multimeter	12,
FuncGen	Function / Arbitrary Waveform Generator	4

4.1 Instrument Library file names

Instrument Library file names are either

- To follow the naming of instruments in section 5
- Or
- To describe the instrument with producer & type. Ex. "Agilent_E5071x.vee"

5 Instrument Names

In Agilent Vee I/O manager all instruments are listed with names and addresses. It is very important that the instrument name describes the instrument as precisely as possible.

5.1 Rules

An Instrument gets a name that is unique for that instrument

[Prod]_[TYPE]_[Number]-[Bus]

Where

Prod is a contraction of the producer name

TYPE is the type of the instrument

Number is a number to be used if there is more than one instrument of the same type. Starting at "2" as it is not needed if there only are one.

Bus Instruments that are running on other buses than GPIB-488 will get an additional extension. (It is always the bus of the instrument)
Bus translators or alike that convert from one bus to an other bus, are seen as transparent, and as a part of the instrument they are connected to.

5.2 Examples

Agilent E3632A, PSU = AG_E3632A

If there are two and the second Agilent E3632A, PSU's = AG_E3632A & AG_E3632A_2

Agilent 5071B, NWA = AG_5071B

If an Agilent 5071B, NWA are run via LAN = AG_5071B-LAN

5.3 Producer list

Producer	Contraction
Agilent	AG
Anritzu	ANR
Hewlett-Packard (Now Agilent)	AG
Rohde & Schwarz	RS



5.4 Instrument list

5.4.1 Agilent

Type	Description	Vee Name	Libname
16903A	Logic Analysis System	AG_16903A	LogAna
34410A	Digital Multimeter		
34970A	Data Acquisition Switch Unit	AG_34970A	Switch
E3631A	80W Triple Output Power Supply, 6V, 5A & $\pm 25V$, 1A	AG_E3631A	PSU
E3632A	120W Power Supply, 15V, 7A or 30V, 4A	AG_E3632A	PSU
E3649A	100W Dual Output Power Supply Two 35V, 1.4A or 60V, 0.8A	AG_E3649A	PSU
E4402B	ESA-E Series Spectrum Analyzer, 100 Hz to 3.0 GHz	AG_E4402B	SpecAna
E4407B	ESA-E Series Spectrum Analyzer, 100 Hz to 26.5 GHz	AG_E4407B	SpecAna
E4420B	ESG-A Series Analog RF Signal Generator, 2 GHz	AG_E4420B	SigGen
E4438C	ESG Vector Signal Generator	AG_E4438C	SigGen
E4440A	PSA Series Spectrum Analyzer, 3 Hz - 26.5 GHz	AG_E4440A	SpecAna
E5070B	ENA RF Network Analyzer, 3-Port, 300 kHz to 3GHz	AG_E5070B	NWA
E5070C	ENA RF Network Analyzer, 3-Port, 300 kHz to 3GHz	AG_E5070C	NWA
E5071B	ENA RF Network Analyzer, 4-Port, 300 kHz to 8.5 GHz	AG_E5071B	NWA
E5071C	ENA RF Network Analyzer, 4-Port, 300 kHz to 8.5 GHz	AG_E5071C	NWA
54024A	4-Channel, 100 MHz Oscilloscope	AG_54024A	Osc
54622D	2+16 Channel, 100 MHz Mixed-Signal Oscilloscope	AG_54622D	Osc
6060B	300 Watt DC Electronic Load	AG_6060B	DCLoad
6544A	200 Watt Power Supply, 60V, 3.5A	AG_6544A	PSU
6675A	2000 Watt System Power Supply, 120V, 18A	AG_6675A	PSU
DSO8104A	Infiniium Oscilloscope: 1 GHz, 4 channels	AG_DSO8104A	Osc
8560E	Portable Spectrum Analyzer, 30 Hz to 2.9 GHz	AG_8560E	SpecAna
8648C	Synthesized Signal Generator, 9 kHz to 3200 MHz	AG_8648C	SigGen



8657B	Synthesized Signal Generator, 100 kHz to 2060 MHz	AG_8657B	SigGen
8719C	Microwave Network Analyzer, 50 MHz to 13.5 GHz	AG_8719C	NWA
8719ES	S-parameter Vector Network Analyzer, 50 MHz to 13.5 GHz	AG_8719ES	NWA
8753D	Network Analyzer, 30 kHz to 3 GHz	AG_8753D	NWA
8753E	S-parameter Network Analyzer	AG_8753E	NWA
8753ES	S-parameter Network Analyzer	AG_8753ES	NWA
N8973A	Noise Figure Analyzer 10 MHz to 3 GHz	AG_N8973A	NFA

5.4.2 Anritzu

Type	Description	Vee Name	Libname
MS2802A	Spectrum Analyzer 100Hz-32GHz	ANR_MS2802A	SpecAna

5.4.3 Rohde&Schwartz

Type	Description	Vee Name	Libname
NRP-Z11	NRP-Z Power Sensors	RS_NRPZ11-USB	PM
SMP 03	Signal generator	RS_SMP03	SinGen

6 Vee IO file

TBD