

TestShell studio™ – Visa Tool example

General

The purpose of this test is to show a basic usage of the Visa tool in studio as a work reference.

Test description

This test demonstrates a scenario of operating a power supply ('Agilent, E3631A') using Visa tool supporting basic functions (Open Session, Init, Set Output, Set Voltage, Read Voltage).

- The user is promoted to insert the required address as a string.
- A session is created and opened - If operation fails the test ends.
- The device is being initialized - If operation fails the test ends.
- Enable output and set a desired voltage.
- The last step is checking the actual output voltage value compared to the desired one.

TestShell modules used in the test

Instruction: Gets user inputs – see user guide for more details.

MathShell: Set Message: Displays information – see user guide for more details.

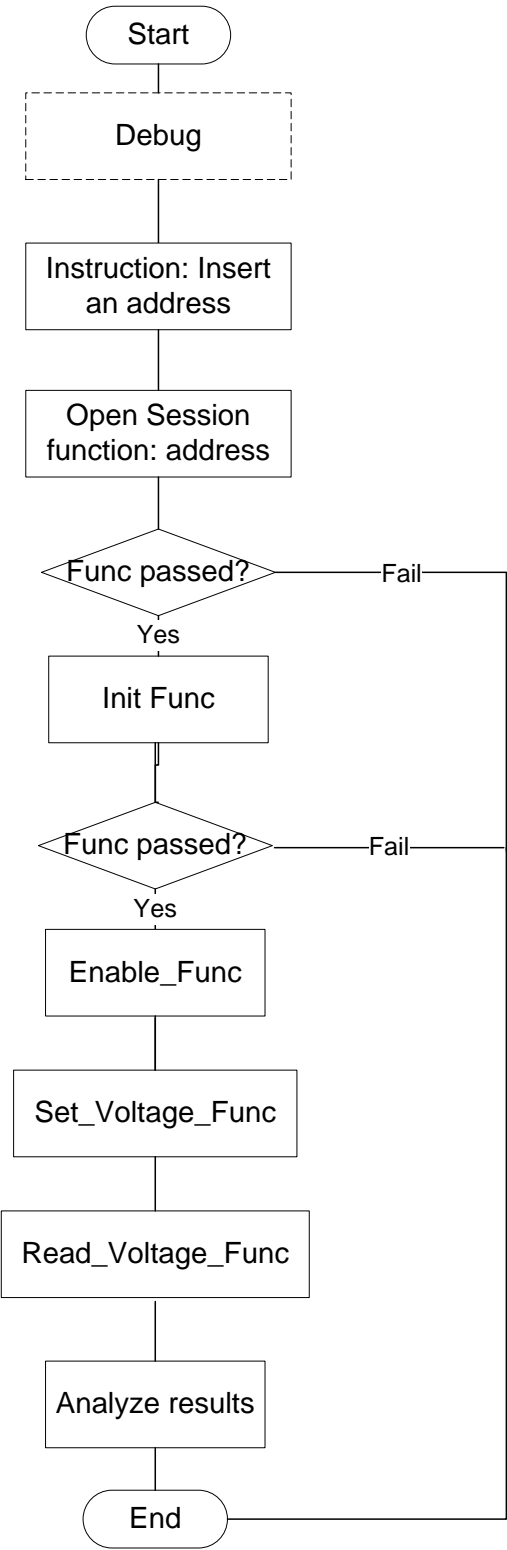
Transformation: Used “num2str” (custom transformation), “regular expression”, “Search and Replace”, “Parse Number”.

Criteria: Declares a PASS or FAIL status according to one or more conditions.

See user guide (including relevant appendixes) for more information on the modules functionality.

Test general description

Block diagram



Test in Studio

