

Automatic or Built-In Context Variables

Built-in Context Variables

- **Zug automatically creates some context variables at runtime, so that testsuites and testcases can use them.**
- **These variables are intended to be read-only**
- **Some variable values can be altered to control behavior**

Built-in Context Variables

- **Variable values automatically populated by ZUG.**
 - **ZUG_TPSTARTTIME** :Timestamp when Test Suite execution started.
 - **ZUG_TCSTARTTIME** :Timestamp when Test Case execution started.
 - **ZUG_TSSTARTTIME** :Timestamp when Test Step execution started.
 - **ZUG_TESTSUITEID** : Test Suite Name
 - **ZUG_BASETCID** : Base Test Case ID
 - **ZUG_TCID** : Generated Test Case ID
 - **ZUG_TCYCID** : Testcycle ID
 - **ZUG_TESTPLANID** : Testplan ID
 - **ZUG_TOPOSET** : Topology Set ID
 - **ZUG_TOPO** : Topology ID
 - **ZUG_TSEXID** : Test Execution Detail Id.
 - **ZUG_BWD** : Base Directory of the test suite
 - **ZUG_PWD** : Current working directory.

Global Context Variables

ZUG_TESTSUITE_TIMEOUT: Max time in sec a test suite is allowed to execute. Note this value may be altered by the testcase.

ZUG_TESTSTEP_TIMEOUT: Max time in sec a test step is allowed to execute. Note this value may be altered by the testcase.

ZUG_LOGFILENAME: Fully qualified name of the log file

ZUG_SCRIPTLOCATION : Location of the atoms mentioned in the chur sheet's config file and/or in the ZugINI.xml

ZUG_EXCEPTION : Exception message from failed atom

ZUG_ACTION_EXCEPTION

ZUG_VERIFY_EXCEPTION

ZENV_VALUES : Contains some environment related information

Built-in Atoms

- **Context Variable Atoms**
 - **SetContextVar**
 - **UnSetContextVar**
 - **AppendToContextVar**
- **Print Atom** : Displays values passed to it on console
- **GetValueAtIndex Atom** : Returns the value of the MVM or MVCV passed as scalar at the specified index

Macro Name	Value
\$files	{file1.txt,file2.txt,file3.txt}

			nature
GetValueAtIndex	\$files	2	String

Built-in Atoms

- **GetCurrentIndex Atom** : Returns the index of the value specified in the MVM or MVCV

Macro Name	Value
\$files	{file1.txt,file2.txt,file3.txt}

GetCurrentIndex	\$files	file2.txt	String

- **GetValueAt Atom** :
 - Will search for the value of file2.txt in String1 CV.
 - Index of file2.txt is 3 in String1 CV
 - Will put the value of 3rd index of \$file in String2 CV

SetContextvar	String=file2.txt	String1={file3.txt,file4.txt,file2.txt}	String2	
GetValueAt	\$files	%String1%	%String%	String2

Properties

- **GCE** : Concurrent Execution of Test Case or Molecule.
- **REM** : Commenting a test step.
- **NEGATIVE** : for Negative testing
 - **Neg-Action**
 - **Neg-Verify**
- **Ignore** : Ignores the failure of a test step.
- **ROS** : Return on Success (used for conditional execution)
- **ROF** : Return on failure (used for conditional execution)

Step Numbering

- By default, **test steps are executed sequentially** from top to bottom
- Within a testcase or a molecule, the **execution order can be altered** by numbering the steps in some numeric order.
- Absence of numbering indicates default
- Steps having the **same number are launched concurrently** by Zug