

TEST OBJECT SYNTAX

Test = *Paragraph*; *Name*; *TOD File*; *TOD P/N*; *TOD Version*; *Test Exe*; *Arguments*; *Test P/N*; *Test Version*; *Prerequisites*

TestBranch = [*Conditional*] *Command*

Field	Description
<i>Paragraph</i>	Test order and hierarchy (e.g. 1.1.4., 1.2.3., 3.).
<i>Name</i>	Test description (≤ 40 chars).
<i>TOD File</i>	Optional TOD file name.
<i>TOD P/N</i>	TOD part number
<i>TOD Version</i>	TOD version info.
<i>Test Exe</i>	Test object exe or DLL file.
<i>Arguments</i>	Optional args for test object.
<i>Test P/N</i>	Test object part number.
<i>Test Version</i>	Test object version info.
<i>Prerequisites</i>	Optional prerequisites for test object execution.
<i>Conditional</i>	Pass/Fail condition for following command.
<i>Command</i>	Post-execution operation (e.g. repeat, stop or branch).

Version = *Version*, *Date*, *Time*, *ChkType*

Field	Description
<i>Version</i>	File version (e.g. 2.1).
<i>Date</i>	Modification date (optional).
<i>Time</i>	Modification time (optional).
<i>ChkType</i>	CHECK_EXACT, CHECK_NONE or CHECK_ORLATER

Prereq = *Para PreReq*, *Para PreReq*, ...

PreReq	Description
R	Test must have been executed.
IR	Test must execute immediately prior.
P	Test must have passed.
IP	Test must pass immediately prior.

CONFIGURATION SYNTAX

keyword = *DfltValue*; [*Format*]; [*MinSize*]

Field	Description
<i>DfltValue</i>	Default or <static> value.
<i>Format</i>	Formatting mask (e.g. ####)
<i>MinSize</i>	Minimum required characters.

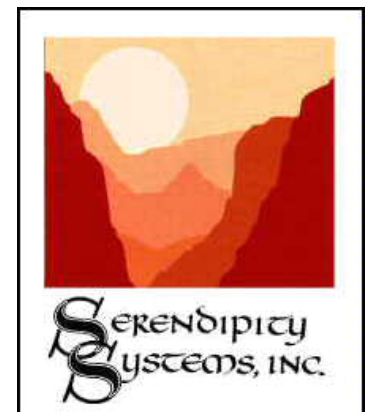
FORMATTING MASK

Mask Char	Description
#	Digit placeholder
.	Decimal placeholder
,	Comma or thousands separator
:	Colon or time separator
/	Slash or date separator
\	Make next character a literal. Allows "#", "&", "?", ";" and "A" in the mask.
&	Placeholder for ANSI characters in ranges: 32-126 and 128-255.
>	Make following characters uppercase.
<	Make following characters lowercase.
A	Alphanumeric (entry required).
a	Alphanumeric (entry optional).
9	Digit placeholder (entry optional).
C	Character or space (entry optional).
?	Letter placeholder
Literal	All other characters or symbols are displayed as themselves.

PRIVILEGE LEVELS

Type	Privilege
Flow	Set execution mode and failure behavior (SOF).
Diag	Set or clear breakpoints & logging.
Log	Enable or disable data logging.
TPD	Load TPD with file dialog or file history.
Admin	Administer privileges database with the Privilege Editor.

TEST EXECUTIVE QUICK REFERENCE



TEXDLL SUMMARY

Access Functions	
texStart	Signals the beginning of a test to the TEXDLL.
texFinish	Signals the end of a test to the TEXDLL.
Verify/Compare Functions	
texCompare texVerify	Returns pass/fail result of evaluating a test value. Test criteria is provided by test object. Verify also logs event.
texCompareTOD texVerifyTOD	Returns pass/fail result of evaluating a test value. Test criteria is from a TOD file. Verify also logs event.
User Interface Functions	
texErrorBox	An error is shown in a dialog box and sent to TestExec.
texInputNumber	Prompt for numerical data entry.
texInputString	Prompt for text data entry.
texMessageBox	Text is shown in a dialog box and sent to TestExec.
texPrint	A print message is sent to TestExec.
texWarningBox	A warning is shown in dialog box and sent to TestExec.
texYesNoBox	A question is shown in a YesNo dialog box.
Information Functions (optional)	
texGetTODVerify	Get verify parameters from the current TOD file.
texGetTPC	Get configuration data from the current TPC file.
texGetTPD	Return items extracted from the current TPD file.
Other Functions	
texAbort	For external application to abort a test object.
texLogPdel	Add text to PDEL file.
texPowerMonitor	Tracks UUT power (on/off)

texScale	Scale a value from one prefix magnitude to another.
texSetAbortDelay	Sets the time (sec) that a test object is given to close itself after an abort request.
texStartActive	Returns True if texStart() has already been called.
texEmbedBreakpoint	Defines possible breakpoint in the test object.

COMMAND FLAGS

Verify Breakpoints	
"/va"	Break at all verifies.
"/vf"	Break at failing verifies.
"/v" number or 'id'	Break at verify number or id (e.g. "/v 25" or "/v 'vfy5' ")
"/vn"	Disable verify breakpoints. *
Data Breakpoints	
"/bd"	Enable dialogs and log all data breakpoints.
"/lbd"	Log all data breakpoints.
"/nbd"	Disable data breakpoints. *
Trace Breakpoints	
"/bt"	Enable dialogs and log all trace breakpoints.
"/lbt"	Log all trace breakpoints.
"/nbt"	Disable trace breakpoints. *
Warnings	
"/w"	Enable dialogs and log all warnings.
"/lw"	Log all warnings.
"/nw"	Disable warnings. *
File Names	
"/tod" filename	Specify TOD filename.
"/tpd" filename	Specify TPD filename.
"/hlp" filename	Specify Help filename.
Test Id	
"/tid" paragraph	Specify test entry paragraph #.
Abort Delay	
"/ad" delay	Abort delay in sec. (default 1s)

VERIFY TEST CRITERIA

texVerify(value, descrip, id, limTyp, limit1, limit2, sigDig, prefix, units)

Param	Type	Description
value	dbl	Measured value to verify
descrip	string	A description or title for the verify (≤ 40 chars).
id	string	Unique verify identifier (≤ 40 chars). Alphanumeric & underscores only.
limTyp	short	Test method to use (e.g. LESS_THAN).
limit1	dbl	Use depends on limTyp
limit2	dbl	Use depends on limTyp
sigDig	short	Significant digits for test criteria (0-6).
prefix	string	Magnitude of units (e.g. "milli"). Up to 8 chars.
units	string	Measurement units for the compare (e.g. "volts" or "hex"). Up to 20 chars.

TEST METHODS

Value	Pass Criteria
EQUAL	value = limit1
GR_THAN	value > limit1
GR_THAN_EQ	value \geq limit1
LESS_THAN	value < limit1
LESS_THAN_EQ	value \leq limit1
RANGE	limit1 \leq value \leq limit2
NOM_TOL	(limit1 - limit2) \leq value and value \leq (limit1 + limit2)
NOM_PER	limit1 - (limit1 * limit2) \leq value \leq limit1 + (limit1 * limit2)
BIN_COMP	(value limit2) = (limit1 limit2)
PASS_FAIL	value \neq 0