

# The Open Group

## VSTHlite Release 1.0

### Release Notes

This document provides Release notes for The Open Group's Verification suite for Threads, *lite* version.

#### 1. Release Overview

VSTHlite 1.0 is a *lite* version of The Open Group's Threads verification suite VSTH.

VSTHlite is a test package for use with VSXgen (the generic VSX test framework), and contains 700 tests for a subset of the POSIX96 threads interfaces and headers. It can be used standalone or together with other test packages under the VSXgen framework.

This release is distributed as a complete release.

#### 2. Release Contents

The release consists of the following files.

vsthlite-1.0.tar.gz	The source code to the suite in gzip'd tar format
vsth-guide.pdf	The VSTH Users Guide
vsthlite-relnote.pdf	These release notes

##### 2.1 Test Coverage

Test are provided for the following system headers:

- dirent.h, limits.h, pthread.h, sched.h, signal.h, stdio.h, stdlib.h, string.h, time.h, sys/types.h, unistd.h

Tests are included for the following system interfaces:

- asctime\_r, ctime\_r, flockfile, ftrylockfile, funlockfile, getc\_unlocked, getchar\_unlocked, gmtime\_r, localtime\_r, putc\_unlocked, putchar\_unlocked, rand\_r, setlocale, strtok\_r
- readdir\_r
- getlogin\_r, sysconf, ttyname\_r
- pthread\_atfork, pthread\_kill, pthread\_sigmask, sigwait

- `getgrgid_r`, `getgrnam_r`, `getpwnam_r`, `getpwuid_r`
- `pthread_create`, `pthread_detach`, `pthread_equal`, `pthread_exit`, `pthread_join`, `pthread_once`, `pthread_self`,
- `pthread_attr_destroy`, `pthread_attr_getdetachstate`, `pthread_attr_getstackaddr`, `pthread_attr_getstacksize`, `pthread_attr_init`, `pthread_attr_setdetachstate`, `pthread_attr_setstackaddr`, `pthread_attr_setstacksize`

Note that the full VSTH test suite provides further test coverage with a total of over 1500 tests. For information on licensing the full version of the test suite please see

<http://www.opengroup.org/testing/sales+support/>

### 3. Obtaining VSXgen

If you do not already have a copy of VSXgen, you need to obtain it in order to run VSTHlite tests. It should be available from the same place that you obtained this VSTHlite release.

### 4. Obtaining TET or TETware

VSTHlite runs under TET3. A suitable version of TET3 (the unsupported release of TETware) can be obtained at:

<ftp://ftp.xopen.org/pub/TET3>

Note that TET version 3.3d or later is required to be used with this release. The full release of TETware is only available to TETware support licensees and is available directly from The Open Group.

TET3 and TETware must be configured to build as the Lite version. Do not use the Distributed version. Be sure to build TET with support for POSIX threads.

For more information on TET and/or TETware, see:

<http://tetworks.opengroup.org>

### 5. Documentation

VSTHlite includes the full VSTH 5.2.1 User's Guide which provides comprehensive information on the installation, configuration and use of VSTH. Please consult this guide for assistance with VSTHlite use, please note that certain sections of that manual are not applicable to this release since VSTHlite is a subset of the full VSTH test suite.

## 6. Support

Support related questions and problem reports should be directed to the VSTH support team identified in Appendix D of the VSTH User's Guide.

## 7. Size

The size of VSTHlite when the suite is built is approximately 50MB. The size of the compressed distribution is roughly 1 MB. When running the complete test suite, journal files will be produced that are typically 1MB in length, so its recommended that at least 80MB of disk space be allowed for a test campaign.

## 8. Time

The test suite takes between 1 and 3 hours to run depending on the speed of the platform under test

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