
CONVEX System Exerciser (SX) V2.1 Release Notice



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CONVEX System Exerciser V2.1

This notice describes the V2.1 release of the CONVEX System Exerciser (SX). It is designed to supplement permanent documentation. This notice also lists fixes and workarounds that may save you time if you encounter a known problem. Always refer to this document before reporting problems; your questions may be answered here.

Prerequisites

The CONVEX System Exerciser has the following prerequisites:

- You should read this document before installing CONVEX System Exerciser V2.1 software.
- You must have at least 65 megabytes free in the partition in which SX is to be installed.
- You must have at least 300 megabytes free in the SXXECDIR, default is \$SXHOME/exec before executing the Processor/Memory Subsystem suites.
- Some CEC tests have minimum data and stack size limit requirements. These requirements may exceed the current OS tunable settings. The following entries are suggested to replace existing OS tunable settings before booting to execute SX CEC tests:

Maximum size of data segment adjustable via rlimit

Server,maxdsiz:desc=Maximum Data Size Limit:1=1024M:

Maximum stack size adjustable via rlimit

Server,maxssiz:desc=Maximum Stack Size Limit:1=512M:

Once the tunables are set appropriately, the shell stack size limit should be set to 512Mb. The data size limit should be set to 1024M. If using tcsh, type: `limit` to determine the current settings. Type `limit stacksize 512m` to set the stack size limit appropriately and `limit datasize 1024m` to set the data size appropriately.

Notes and cautions

Before you install the software, please be aware of the following:

- The default Disk Stress suite configuration creates 400 Megabyte files in the file systems under test. SX will clean up these file systems when tests complete or are aborted. If the file systems under test have less than 400 Megabyte of free space, the default Disk Stress suite will fail.
- To conserve disk space, when all testing is complete, restarting SX with the -c option is desired to clean up all log, failure and execution directories.

- Disk Stress and diskx only support file systems as units under test.
- The “hippi loopback test” (keyword hippie) should not be used discretely -- it should only be used by the “Hippi Loopback Suite.” The “Hippi Loopback Suite” performs setup required by this external test before execution. Refer to the `sx-hippi_loop` man page for more information on the Hippi Loopback Suite.
- The “atm loopback test” (keyword atm) should not be used discretely -- it should only be used by the “ATM Loopback Suite.” The “ATM Loopback Suite” performs setup required by this external test before execution. Refer to the `sx-atm_loop` man page for more information on the ATM Loopback Suite.

Installation

SX is available for in SD-UX format. To install SX, use the `swinstall` program with SX as the software selection key. Example: `swinstall -s <tape> SX`. By default, SX will be installed in `/tmp/SX`. If an alternate installation destination is desired, make a link from `/tmp/SX` to the desired destination.

General usage

If SX is installed in a directory other than `/tmp`, the `SXHOME` environment variable must be set to the installation directory.

Non-GUI interface

Use `sx -t` to obtain a list of available tests and suites. Use `sx -d` to obtain a list of recognized I/O devices. To execute a test or suite, use the general form:

```
sx -v -t <test-or-suite-key> [-d <device>,<device>..] ]
```

GUI interface

Verify that the `DISPLAY` environment variable is set appropriately. Execute `sx` without any command line parameters. The on-line help system, via the help menu item in each window, can be used as a guide to frequently used functions.

Enhancements

Networking tests

- The “ATM Looback Suite” was added to allow testing of ATM controllers.

Bug information

This section lists problems, resolutions, and known restrictions in the use of CONVEX System Exerciser V2.1 software.

Known bugs

If a complex contains more nodes than are configured by the subcomplex manager, SX will report an error attempting to resolve the node* suite directive:

Unable to find subcomplex matching Node 1 CPU mask 65535 defaulting to system

To work around this problem, assign the missing node (in the example above, Node 1) to a subcomplex using scm.

