

1 trng_capture

trng_capture — A tool to write data from Kidekin TRNG to a file or standard output

Synopsis

trng_capture [help | *SIZE*] [*OUTPUT_FILE_NAME*] [txt]

DESCRIPTION

trng_capture allows to write random data to a file or the standard output. The standard output is a convenient way to directly feed random numbers to another software, no matter in which language it is written. trng_capture allows to choose between binary or text output mode, in text mode the output is the conversion of random numbers to hexadecimal, so it looks like "A3BCFD67..." without any white space character.

Kidekin TRNG must be connected before running **trng_capture**.

On linux, **trng_capture** must have permission to access Kidekin TRNG. Unless you write a dedicated udev rule, this means it needs to be run as root.

help

Display a description of the command line arguments.

Any subsequent argument is ignored.

SIZE

If *OUTPUT_FILE_NAME* is "stdout", *SIZE* unit is bytes.

Otherwise *SIZE* unit is mega-bytes.

Default value is 2 mega-bytes.

OUTPUT_FILE_NAME

Specify where to write the data. It can be a path to a file or "stdout" or "null". If a file name is specified and the file already exist, it will be overwritten without warning.

"stdout" redirects the output to the standard output (the screen if invoked from a console) and no file is created in this case.

"null" does not write the data anywhere (not even to /dev/null on Linux). It allows to benchmark the TRNG independently of hard disk performances.

Default value is "trng_capture_output.dat".

txt

Specify to write the data in text format rather than binary format. The text format is simply a continuous stream of hexadecimal digits without any white space characters, not even at the end.

Example of 4 bytes in text format: "A3BCFD67"

EXAMPLES

trng_capture

Create a binary file "trng_capture_output.dat" containing 2MB of random data.

trng_capture 16

Create a binary file "trng_capture_output.dat" containing 16MB of random data.

trng_capture 16 test.dat

Create a binary file "test.dat" containing 16MB of random data.

trng_capture 16 stdout

Write 16 random bytes in binary format to the standard output (the screen if invoked from a console).

trng_capture 16 stdout txt

Write 16 random bytes in text format to the standard output (the screen if invoked from a console).

BUGS

Please report bugs by email: trng@kidekin.nimp.co.uk

RESOURCES

Main web site: <http://kidekin.nimp.co.uk>