

**NAME**

sane-net – SANE network backend

**DESCRIPTION**

The **sane-net** library implements a SANE (Scanner Access Now Easy) backend that provides access to image acquisition devices through a network connection. This makes it possible to control devices attached to a remote host and also provides a means to grant users access to protected resources.

**DEVICE NAMES**

This backend expects device names of the form:

*host:device*

Where *host* is the name (or IP address) of the (remote) host and *device* is the name of the device on this host that should be addressed. If the device name does not contain a colon (:), then the entire string is treated as the *device* string for the default host. The default host is the host listed last in the configuration file (see below).

An IPv6 address can be specified enclosed in square brackets:

*[::1]:device*

**CONFIGURATION**

The *net.conf* file contains both backend options and a list of host names (or IP addresses) that should be contacted for scan requests. Anything that isn't one of the options listed below will be treated as an host name.

**connect\_timeout = nsecs**

Timeout (in seconds) for the initial connection to the *saned* server. This will prevent the backend from blocking for several minutes trying to connect to an unresponsive *saned* host (network outage, host down, ...). The environment variable **SANE\_NET\_TIMEOUT** can also be used to specify the timeout at runtime.

Empty lines and lines starting with a hash mark (#) are ignored. Note that IPv6 addresses in this file do not need to be enclosed in square brackets. A sample configuration file is shown below:

```
scan-server.somedomain.firm
192.168.0.1
# this is a comment
localhost
::1
```

The above list of hosts can be extended at run-time using environment variable **SANE\_NET\_HOSTS**. This environment variable is a colon-separated list of hostnames or IP addresses that should be contacted in addition to the hosts mentioned in the configuration file. For example, a user could set the environment variable to the string:

```
new.scanner.com::1:192.168.0.2:scanner.univ.edu
```

To request that hosts *new.scanner.com*, *[::1]*, *192.168.0.2* and *scanner.univ.edu* are contacted in addition to the hosts listed above.

For this backend to function properly, it is also necessary to define the **sane-port** service in */etc/services*. The **sane** service should be defined using a line of the following form:

```
sane-port 6566/tcp # SANE network scanner daemon
```

**FILES**

@*CONFIGDIR*@/net.conf

The backend configuration file (see also description of **SANE\_CONFIG\_DIR** below).

@*LIBDIR*@/libsane-net.a

The static library implementing this backend.

@LIBDIR@/libsane-net.so

The shared library implementing this backend (present on systems that support dynamic loading).

## ENVIRONMENT

### SANE\_CONFIG\_DIR

This environment variable specifies the list of directories that may contain the configuration file. Under UNIX, the directories are separated by a colon (':'), under OS/2, they are separated by a semi-colon (';'). If this variable is not set, the configuration file is searched in two default directories: first, the current working directory (".") and then in @CONFIGDIR@. If the value of the environment variable ends with the directory separator character, then the default directories are searched after the explicitly specified directories. For example, setting **SANE\_CONFIG\_DIR** to "/tmp/config:" would result in directories "tmp/config", ".", and "@CONFIGDIR@" being searched (in this order).

### SANE\_NET\_HOSTS

A colon-separated list of host names or IP addresses to be contacted by this backend.

### SANE\_NET\_TIMEOUT

Number of seconds to wait for a response from the *saned* server for the initial connection request.

### SANE\_DEBUG\_NET

If the library was compiled with debug support enabled, this environment variable controls the debug level for this backend. E.g., a value of 128 requests all debug output to be printed. Smaller levels reduce verbosity.

## BUGS

If *saned* has timed out, the net backend may loop with authorization requests.

## SEE ALSO

*sane*(7), *saned*(8), *sane-dll*(5), *scanimage*(1)

<http://www.penguin-breeder.org/?page=sane-net>

## AUTHOR

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