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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