

SNiFF+TM

Version 3.2 for Unix and Windows

Installing SNiFF+ for Unix

Turn this manual around to read the
SNiFF+ Installation Guide for Windows



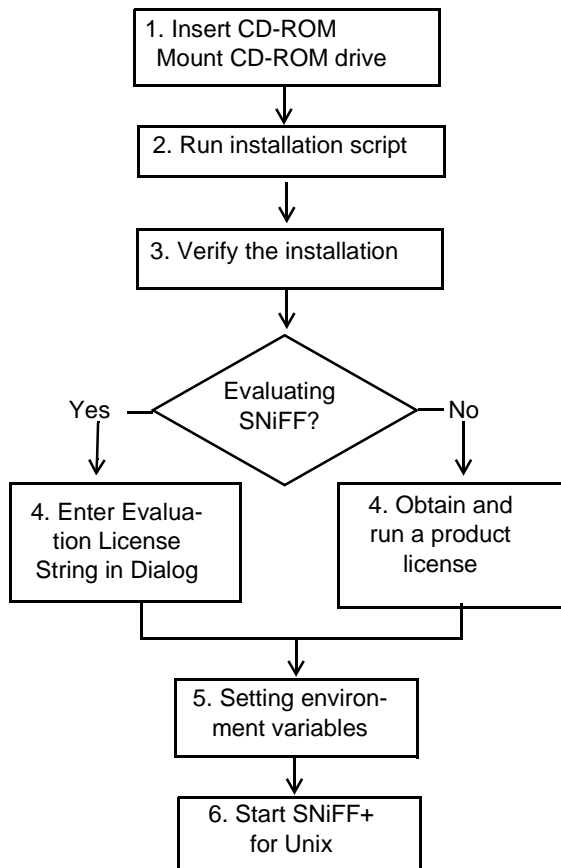
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Installing SNIFF+ for Unix



Statistics

The following resource requirements were obtained from tests conducted on a Solaris workstation.

Required disk space

Installed SNIFF+	Diskspace
Complete Installation	~100 MB
.ps files	~12 MB
Example sources for tutorials	~6 MB
Core product executables (without compiler)	~82 MB
Platform specific binaries	30 - 50 MB

Memory required for a project with approx. 85 KLOC with Rapid Reference Technology enabled

States of the running SNIFF+	Memory
SNIFF+ empty process	~25 MB
After loading project Symbols	~31 MB
After one cross reference (referred - by query)	~32 MB

Diskspace for files generated by SNiFF+

The diskspace required for files generated by SNiFF+ depends on the number of symbols in your source code but is usually not larger than the diskspace required for the sources.

You must have the appropriate user privileges for mounting the CD-ROM, creating a SNiFF+ root directory and for copying the files from the media. If you plan to use SNiFF+ in a team environment we recommend that you install SNiFF+ as the user who will later be the administrator for SNiFF+.

Note

If you are installing the GNU binaries, these must be installed in `/usr/local`. Root privileges are required for installing the binaries of the GNU compiling and debugging system!

Installation from CD-ROM

To load the SNIFF+ packages from CD-ROM, follow the steps below and refer to the following sections for instructions specific to your platform:

1. Insert the CD into the CD-ROM drive.

Mount the CD-ROM drive.

Please follow the platform-specific commands below. All steps refer to the directory `/cdrom` as the mount point.

Solaris 2.x

Enter the following to create the mount point and mount the CD-ROM drive:

```
mkdir /cdrom
mount -r -f hsfs /dev/dsk/c0t6d0s0 /cdrom
```

SunOS 4.x

Enter the following to create the mount point and mount the CD-ROM drive:

```
mkdir /cdrom
mount -r -t hsfs /dev/sr0 /cdrom
```

HP 9000 HP-UX 10.x/11.x

Enter the following to create the mount point and mount the CD-ROM drive:

```
/bin/mkdir /cdrom
/etc/mount /dev/dsk/cld0s2 /cdrom -r -t
cdfs
```

In the above example, the CD-ROM device has the device address 2. If the CD-ROM has not been successfully mounted after the execution of the above

instructions, ask your system administrator to mount the CD-ROM drive using `sam`.

IBM RS/6000 AIX 4.x

Select available CD-ROM drives on your system:

```
/etc/lsdev -C -c cdrom -H
```

The first field of the resulting output string is the device name of the CD-ROM drive in `/dev`. e.g.: `/dev/cd0`

Create the mount point for the CD-ROM drive:

```
/bin/mkdir /cdrom
```

Mount the CD-ROM drive:

```
/etc/mount -vcdvfs -r /dev/cd0 /cdrom
```

If the CD-ROM has not been successfully mounted after the execution of the above instructions, ask your system administrator to mount the CD-ROM drive using `smit`.

Digital UNIX 3.x (former DEC OSF/1)

Enter the following to create the mount point and mount the CD-ROM drive:

```
mkdir /cdrom
```

```
mount -t cdfs -o ro -o noversion /dev/rz3c  
/cdrom
```

Digital UNIX 4.x

Enter the following to create the mount point and mount the CD-ROM drive:

```
mkdir /cdrom
```

```
mount -t cdfs -o ro /dev/rz4c /cdrom
```

SGI IRIX

SGI IRIX automatically mounts the inserted CD-ROM under the directory `/CDROM`. An icon representing the CD-ROM is displayed on the workspace.

SCO UnixWare

SCO UnixWare automatically mounts the inserted CD-ROM under the directory `/CD-ROM_1`. An icon

representing the CD-ROM is displayed on the workspace.

SNI Sinix

Enter the following to create the mount point and mount the CD-ROM drive:

```
mkdir /cdrom
mount -o ro -F hs /dev/ios0/sdisk005s0 /
cdrom
```

Linux

Enter the following to create the mount point and mount the CD-ROM drive:

```
mkdir /cdrom
mount -r /dev/cdrom /cdrom
```

Installing SNIFF+ from a CD-ROM drive on Windows

Copy the following files and the platform specific subdirectory from the CD-ROM drive to a temporary directory on the platform where you intend to install SNIFF+:

```
Install_kit
Sniff.tgz
Doc.tgz
Example.tgz
```

Note: If you don't want to copy the entire platform specific subdirectory, you can copy the compulsory `Sniffbin.tgz`, `Gzcat` and `Tar` files and other optional files that you may need from this subdirectory.

Make sure that you have executable permissions for `Gzcat` and `Tar` files on the platform where you intend to install SNIFF+.

2. Run the installation script

Change to the directory where you have mounted the CD-ROM, e.g.:

```
cd /cdrom
```

Or change to the temporary directory in which you copied the files from the CD-ROM, see [Installing SNIFF+ from a CD-ROM drive on Windows — page 6](#).

For all platforms (except HP when installing from CD-ROM), enter:

```
csh ./install.kit
```

For the HP platform (when installing from CD-ROM), type:

```
csh ./INSTALL.KIT\;1
```

The installation procedure prompts you for the full path name of the SNIFF+ root directory and creates it if necessary. You can then select the individual packages to be installed on your system.

3. Installation verification

After the packages have been installed, the installation procedure asks you whether it should check to see if the installation was successful.

The script determines whether all necessary files have been installed, checks the access rights and compiles a report on the installed GNU software.

Multiple platforms

SNIFF+ can be installed in a single directory for multiple platforms by installing the required platforms in one step. All platform-specific files are placed into platform specific subdirectories that are automatically created by the installation script. When starting SNIFF+ from this directory, the host platform is detected automatically and the appropriate executables are started.

GNU packages

During installation, you will be asked whether you want to install the GNU packages. The GNU packages for all platforms **MUST** reside in the directory `/usr/local`.

Installation of the GNU packages requires write permissions for the resident directory.

Note

In order for RCS to work properly, GNU diff must be installed. GNU diff is supplied with the RCS package on the SNIFF+ CD-ROM. If you have already installed RCS, please verify that diff is available.

4. Licensing SNIFF+ for UNIX

There is a new Demo mode available that allows you to use SNIFF+ with projects containing up to 200 files, however remote compile and debug is not possible in this mode. If you want to evaluate SNIFF+ for larger projects, you are required to have a license.

If you are evaluating SNIFF+, see [Evaluation License — page 11](#) for details.

For details about how to obtain and install a product license, see [Product license — page 12](#).

5. Setting the environment variables

Before running SNIFF+, the user must have read permission for <sniff_directory>.

The following variables need to be set, where <sniff_directory> is the root of the directory structure created during your installation of SNIFF+:

\$SNIFF_DIR

setenv SNIFF_DIR <sniff_directory> (for csh)

SNIFF_DIR=<sniff_directory>;

export SNIFF_DIR (for sh or ksh)

\$PATH

set path = (<sniff_directory>/bin \$path

```
(for csh)
PATH=<sniff_directory>/bin:$PATH;
export PATH (for sh or ksh)
```

If you have installed the GNU products, your path must contain `/usr/local/bin`.

\$LM_LICENSE_FILE (optional)

The `$LM_LICENSE_FILE` variable needs to be set only if the `license.dat` file is not in its default location in the SNIFF+ root directory or if you want to use an already existing FLEXlm product license file.

```
setenv LM_LICENSE_FILE
<any_location>/license.dat(for csh)
LM_LICENSE_FILE=<any_location>/
license.dat; export LM_LICENSE_FILE (for
sh or ksh)
```

SNIFF+ can also be configured to use a specific license file by a command line option. Refer to the *Reference Guide* for details.

6. Starting SNIFF+ for UNIX

Once the environment has been set, you can start SNIFF+ by entering:

```
sniff &
```

For the exact command-line syntax refer to the *Reference Guide*.

As is true for any other X Windows application, the `$DISPLAY` variable must be set to point to the X server where you would like the SNIFF+ windows to appear.

Note

On several Intel based Unix systems the kernel is pre-configured to a maximum process size of 16MB. This can cause problems because SNIFF+ can easily reach this limit when loading projects. To avoid this we recommend increasing the limit to at least 32MB.

Further Information

SNiFF+ documentation

The full SNiFF+ documentation is available online.

Use the Launch Pad's **Help(?)** menu to access the full documentation set in your browser.

If you have chosen to install the Postscript documentation files, these are located in `<sniff_directory>/doc`.

To have the documentation files in PDF format, copy the `PDF_docu.tgz` file from the CD and extract them manually.

TakeFive News of the Quarter, Web-Site, FAQ, SNiFF+ Mailing List

TakeFive Software offers different channels to exchange information, get latest news and answer frequently asked questions. All this information is available at the TakeFive website:

<http://www.takefive.com>

The site also offers more information about the SNiFF+ users' mailing list and the quarterly newsletter.

You can also subscribe to the *Source Code Engineering Newsletter* by sending an e-mail:

To: majordomo@takefive.co.at

From: <YOUR E-MAIL ADDRESS>

Subject: <empty>

Text: subscribe takefive-newsletter

Evaluation License

The evaluation license is not locked to a specific machine and is valid until its expiration date. You can ask for an evaluation license without having to supply any details about your configuration.

After you have requested a license from either your local distributor or from TakeFive, you will be given an "evaluation license string". Please enter this string into the dialog box during installation.

You can also append the license string to the `license.dat` file in the SNIFF+ root directory if you have not entered it while installing SNIFF+. The following is an example of an evaluation license:

```
FEATURE SNIFF_EVAL none 3.000
1-nov-1998 0 CCE0CCF1AC43E65912E3 "" DEMO
```

Note: If you are already using FLEXlm for other products, you can still use the SNIFF+ evaluation string if you keep it in a separate file from your existing product license and modify the environment variable `LM_LICENSE_FILE` for FLEXlm accordingly.

E.g., copy the SNIFF+ evaluation string into `license.dat` and set `LM_LICENSE_FILE` to the following:

```
LM_LICENSE_FILE=
<path_to_existing_license>:<sniff_dir>/
license.dat
```

Caution: Do NOT start the license server when working with an evaluation license only.

Product license

SNiFF+ comes with the FLEXlm floating license server. The license server, which is node-locked, keeps track of the number of concurrent clients and makes sure that all licenses are current. Client licenses may float across the network. You need a license for every concurrent SNiFF+ user. This license comes in the form of an ASCII text string. The license string is obtainable from either your SNiFF+ distributor or directly from TakeFive Software.

Obtaining a license

To obtain a license, run `get_licenseinfo` located in `$SNIFF_DIR/bin` as a shell script and enter the information asked for by the script. Then, e-mail or fax the script output to one of the following locations or your local distributor:

Europe, Middle East and Africa:

E-mail: sniff-license@takefive.co.at

Fax: +43 662 4579156

The Americas and Pacific Rim:

E-mail: sniff-license@takefive.com

Fax: (408) 777-1444

After requesting the license, you will receive the product license string by either e-mail or fax. Please append this string to `%SNIFF_DIR%/license.dat` in the SNiFF+ root directory, or add it to an existing FLEXlm product license file.

Product license file example

```
SERVER palomar 00a0244ea3c6 7594
DAEMON takefive /usr/local/flexlm
FEATURE SNIFF_CROSS takefive 3.000 01-jan-00 4
778870C1932FEEA950B9 ""
FEATURE SNIFF_CROSS takefive 3.100 01-jan-00 4
EB7EF0C15D6299CD3927 ck=249
FEATURE SNIFF_Core_CROSS takefive 3.100 01-jan-00
4 3B3E5081AB9BD5CEBDF7 \
    ck=91
FEATURE SNIFF_C++_CROSS takefive 3.100 01-jan-00 4
9B1E10B1787879302A19 \
    ck=246
```

You may change only three fields in the license.dat file:

- The hostname in the SERVER line (e.g. palomar)
- The TCP port number in the SERVER line (e.g. 7594)
- The path of the takefive executable in the DAEMON line

Do not change any other fields, otherwise the license will not be valid!

IMPORTANT: You MUST edit the DAEMON line by entering the full path to your <sniff_directory>/bin

Furthermore, if you already use software licensed with FLEXlm, you will have to merge the various license files. The resulting license file must consist of one SERVER line (or more for multi-server configurations), followed by any number of DAEMON lines, which in turn are followed by any number of FEATURE lines. Be careful not to mix DAEMON and FEATURE lines. Moreover, you should always use the latest version of lmgrd supplied with the various products licensed with FLEXlm.

To find out what the version number of your lmgrd is, enter the command `lmgrd -v`.

Starting the license server

Before using SNIFF+ with a product license, the license server must be started. The license server is located in %SNIFF_DIR%/bin. Any user can start the server, but we suggest that you start the license server automatically at boot-up.

Caution! Do NOT start the license server when working with an evaluation license. For information about how to use evaluation licenses, see [Evaluation License — page 11](#).

The command line syntax for the license server is:

```
<sniff_directory>/bin/lmgrd -c  
<sniff_directory>/license.dat> <sniff_dir>/  
license.log &
```

license.log specifies the log file where license transactions and error messages are written into. At each start-up of the license server, the file is overwritten. If the license server is not running, read the messages that appear on the terminal or are written into the log file.

Starting the license server at boot-up from the rc.local file:

For BSD, append the following line to /etc/rc.local (for UNIX-V, append it to the directory /etc/rc3.d):

```
<sniff_directory>/bin/lmgrd -c  
<sniff_directory>/license.dat>  
<sniff_dir>/license.log&
```

Checking the active license server

The lmstat program provides information about the status of the license server and the users that have active licenses.

In a shell, enter:

```
<sniff_directory>/bin/lmstat -a -c  
<sniff_directory>/license.dat
```

You can also get license server information from within SNIFF+ by selecting the License... command in the Launch Pad's Help(?) menu.

FLEXIm User Manuals

The FLEXIm online user documentation can be found at the following two locations:

<http://www.ptsdirect.co.uk>

Productivity Through Software plc
England, UK (use the search facility)

<http://www.globetrotter.com/manual.htm>

Globetrotter Inc. in California, USA

