1 Installation

Introduction

This chapter explains the NCSA Mosaic copyright and how to install your copy of the software.

Copyright Software

NCSA Mosaic is copyright by the University of Illinois Board of Trustees. You may use the software under the public-with-copyright policy in place for individual users—meaning you may use NCSA Mosaic free of charge for academic, research, individual, or internal business purposes but you may not use the software commercially without contacting NCSA or the NCSA Mosaic master licensee Spyglass, Inc. (`http://www.spyglass.com/`).

The copyright statement is also online at the following URL:

`http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/copyright.html`

System Requirements

NCSA Mosaic for the X Window System can be installed on most UNIX-based workstations (e.g., Sun SPARC, IBM RS/6000, SGI, DEC). You must have the X Window System. If you intend to compile NCSA Mosaic, you need MOTIF (from the Open Software Foundation).

Installation Instructions

To download the software, ftp to the NCSA anonymous FTP server (`ftp.ncsa.uiuc.edu`) and change to the `/Mosaic/Unix` directory.

The easiest way to download Mosaic is to retrieve an executable binary from the ftp subdirectory called `binaries`. The following binaries are distributed:

`Mosaic-sun.gz`	Sun 4, SunOS 4.1. *x*
`Mosaic-sun-lresolv.gz`	Sun 4, SunOS 4.1. *x*, no DNS
`Mosaic-sgi.gz`	Silicon Graphics, IRIX 4. *x*.
`Mosaic-indy.gz`	Silicon Graphics, IRIX 5. *x*.
`Mosaic-ibm.gz`	IBM RS/6000, AIX 3.2.
`Mosaic-dec.gz`	DEC MIPS Ultrix.

`Mosaic-alpha.gz` DEC Alpha AXP, OSF/1.

`Mosaic-hp700.gz` HP 9000/700, HP/UX 9. *x*

To download a binary file:

1. Put your FTP session into binary mode (enter **`binary`**).
2. Transfer the file with FTP.
3. Quit the FTP session.
4. Uncompress the binary (enter **`uncompress`** *filename* **`.Z`**).
5. Make the binary executable (enter **`chmod 755`** *filename*).
6. Execute the binary.

See the appendix titled "How to FTP" on page B–1 for more information.

Run-time Problems

There are three problems that you may encounter when you run a Mosaic binary for the first time. They are discussed in order of decreasing severity.

Mosaic dumps core

A core dump can occur if your system is slightly misconfigured. Try starting Mosaic back up with the following command-line flag:

```
Mosaic-sun -ghbnie
```

If Mosaic works with the `-ghbnie` flag, then your system is core dumping while trying to discover its own fully qualified hostname with the `gethostbyname()` system call. For help, contact your system or network administrator.

If Mosaic still doesn't work, follow the instructions displayed as Mosaic dumps core and send a bug report to mosaic-x@ncsa.uiuc.edu.

Mosaic cannot retrieve a file

If Mosaic is looking for a file over the network and cannot retrieve it, an error message shows up in the Mosaic window. There are three possible explanations:

1. You aren't connected to the Internet.
2. You are behind a firewall.
3. Your system can't resolve the remote machine name `www.ncsa.uiuc.edu`.

There is the additional possibility that the central NCSA document server might be temporarily down, which happens in rare circumstances. Always try running Mosaic again after a few minutes to see if this is the problem.

If the problem is (1) or (2), your network administrator must find a way to resolve the access issues. If the problem is (3) and you're running on a Sun, try the binary named `Mosaic-sun-lresolv`. If this still doesn't work (or if you're not on a Sun), contact your network administrator.

Warning Messages

You may see a multiple warning messages in your terminal window.

If you get warning messages (generally about missing "keysyms" or fonts) but the Mosaic window comes up and stays up, then the situation isn't serious and Mosaic runs normally.

Read the online Frequently Asked Questions (FAQ) for more information on how to make the warning messages stop showing up. The URL for the X Window System FAQ is:

`http://www.ncsa.uiuc.edu/SDG/Software/XMosaic/mosaic-faq.html`

Some X Window System servers refuse to run Mosaic when *all* of the fonts Mosaic requests upon startup are missing. If this happens, send mail to mosaic-x@ncsa.uiuc.edu for more help.

Source Code

The complete Mosaic source code distribution is located on the NCSA anonymous FTP server in a subdirectory named `Mosaic/Unix/source`. The distribution comes as a single compressed tar file and can be compiled on most UNIX systems. You must have the X11R4 (or later) and Motif 1.1 (or later) header files and libraries on your system to compile Mosaic.

See the README in the source code distribution for more information on compiling Mosaic.

Access Providers

For full functionality you need access to the Internet. If you do not have access, see the appendix titled "Access Providers" on page D–1 for a list of providers and other references.