The D System v0.5 Installation Guide

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dsystem-info@cs.rice.edu

Rice University
CITI/CRPC - MS 41
6100 South Main Street
Houston, Texas 77005-1892

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Contents

About This Release

1.1 Contents

The D System v0.5 contains the following files:

- The D editor executable for Solaris (`ded*`)
- Configuration files (`.D_config` and `.color_prefs`)
- Fonts for the D editor
- Various README files
- The D System Bug Report Form (`BugReport`)
- This installation guide (`InstallGuide.ps`)
- A technical report that discusses the D editor (`deditor.ps`)
- A man page file for the D editor (`ded.1`)
- Example files (`erle`, `sor`, `jacobi`)

All of these items are contained in a compressed tar file named Dsystem-0.5.tar.Z. Instructions for retrieving and installing this file are presented in Section 2.

1.2 Future Releases

The Developer's Package

The *D System Developer's Package* will contain the D System source code, plus a set of scripts that can be used to modify the D System. As of this writing, the D System Developer's Package will be compilable for

- the Sparc architecture running SunOS-4.1.3
- the Sparc architecture running SunOS-5.3

This package will be made available via the D System World Wide Web pages and via ftp at a later date (see Appendix A for instructions).

End-user Packages

The *D System End-user Packages* will contain the D System binaries for a particular platform. As of this writing, the D System End-user Packages will be available for

- the Sparc architecture running SunOS-4.1.3
- the Sparc architecture running SunOS-5.3

These packages will be make available through the D System World Wide Web pages and via ftp at a later date (see Appendix A for instructions).

Installing the D System

2.1 What You'll Need

To retrieve the D System, you will need Internet or World Wide Web access. To install and use this executable, you will need:

- A Sparc workstation running SunOS-5.3 (Solaris)
- about 10 Meg free

You should also have some knowledge of Unix. If you're new to Unix, you may want to ask a system administrator to help you with the installation.

2.2 Summary

To install version 0.5 of the D System, you will

1. Retrieve a compressed tarfile containing the D System files
2. Uncompress and untar this tarfile
3. Update your shell rc file

These steps are described in detail in the following sections. If you need to ask a question, report an error, or just make a suggestion about these instructions, contact dsystem-info@cs.rice.edu.

2.3 Retrieving the D System

Note: Every time you retrieve a file from the D System file server, your machine name, email address, and the name of the file you're retrieving are recorded. If you don't want this information recorded, don't retrieve any files from the D System file server.

via World Wide Web

To retrieve the D System from the World Wide Web (WWW), launch your favorite WWW viewer with the URL

`ftp://www.cs.rice.edu/pub/DSystem`

then click on Dsystem-0.5.tar.Z. Some WWW viewers will then ask you where you want to put this file. If possible, download this file into the directory where you will install the D System. When this transfer is complete, use the instructions in Section 2.4 to start the installation.

via anonymous ftp

To retrieve the D System via anonymous ftp, first cd into the directory where you want to store the D System tarfile. Then ftp to www.cs.rice.edu, login as anonymous, and give your userid as the password. From there, cd into pub/DSystem and get Dsystem-0.5.tar.Z. When you are finished, type quit.

For example, if you want to install the D System in a directory called /demos

```
cd /demos
ftp www.cs.rice.edu
login: anonymous
password: (your email address, no parentheses)
cd pub/DSystem
binary
get Dsystem-0.5.tar.Z
quit
```

This places Dsystem-0.5.tar.Z in the demos directory on your machine. Next, use the instructions in Section 2.4 to start the installation.

2.4 Extracting the D System Files

Dsystem-0.5.tar.Z is a compressed archive of the Dsystem-0.5 directory structure. (For a list of the contents of this file, see Section 1.1.) Once you've decided where you want to install this structure, follow the steps below.

Step 1

If necessary, move Dsystem-0.5.tar.Z into the directory where you want the D System installed. For example, if you want to install the D System in /demos, type:

```
mv Dsystem-0.5.tar.Z /demos
```

Step 2

Go to the directory you specified in step 1:

```
cd /demos
```

Step 3

Uncompress the archive and extract the D System files:

```
uncompress Dsystem-0.5.tar.Z
tar -xvf Dsystem-0.5.tar
```

This creates the Dsystem-0.5 directory and its subdirectories and extracts the D System files into this structure. (For a list of the contents of Dsystem-0.5.tar, see Section 1.1.)

Next, use the instructions in Section 2.5 to update your shell rc file.

2.5 Updating Your Shell rc File

Now, use your favorite editor to open your shell rc file and update your environment variables, your path, and your man path. For example, if you're running C Shell and you installed the D System in a directory called demos which is in your home directory, update your .cshrc file to include the following:

```
setenv DSYSTEM "${HOME}/demos"
setenv MANPATH "${MANPATH}:${DSYSTEM}/Dsystem-0.5/man"

set path = ( ${DSYSTEM}/Dsystem-0.5/bin $path )
```

Next, source your shell rc file. If you're running C Shell, type

```
source .cshrc
```

Congratulations! You've finished installing the D System. Next, use the instructions in Section 2.6 to run the D editor on a set of examples provided with this release.

2.6 What next?

Now that the installation is complete, invoke the D editor man page

```
man ded
```

and use the instructions in the EXAMPLES section to run the D editor on the Jacobi, SOR, and Erlebacher kernels. As the man page states, feel free to send your comments about the D editor to dsystem-info@cs.rice.edu.

About This Document

Scope

The D System v0.5 Installation Guide provides instructions for retrieving and installing version 0.5 of the D System. If you need to ask a question, report an error, or just make a suggestion about this document, use the D System Bug Report Form provided in the D System World Wide Web pages, or contact dsystem-info@cs.rice.edu.

Audience

This document was written for people who have some knowledge of Unix, the World Wide Web, and anonymous ftp. If you are not familiar with these topics, you may want ask your system administrator to help you with this installation.

Related Documentation

Users with Internet access can obtain more information about the D System via the World Wide Web (see below) or by contacting dsystem-info@cs.rice.edu. Currently, online documentation includes

- General Information
- Technical Papers
- *The Fortran Tools Glossary*
- The D System Bug Report Form

Future documentation will include

- *A Developer's Guide to the D System*
- *The D System Hypertext Directory Tour*
- D System Man Pages
- *The D System User's Guide*

Obtaining Copies

The D System v0.5 Installation Guide, and other D System documentation, is available via the World Wide Web (WWW) and anonymous ftp. To access the D System WWW home page, launch your favorite WWW viewer with the URL

```
http://www.cs.rice.edu/fortran-tools/DSystem
```

then follow the links to find the documentation you want. To access the D System documentation via anonymous ftp, ftp to www.cs.rice.edu, type `anonymous` at the login prompt, and give your userid as the password. Next, cd into pub/DSystem, type `ls` to see a directory listing, then use the `get` command to retrieve the file you want. When you are finished, type `quit`. For an example of anonymous ftp, see Section 2.3.

The Authors

The D System v0.5 Installation Guide is the result of a collaborative effort between D System developers and their support staff. To "meet" the people behind the D System, see the D System pages on the World Wide Web

`http://www.cs.rice.edu/fortran-tools/people.html`

or contact dsystem-info.cs.rice.edu.

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