

Using ulib on Central UNIX

SYNOPSIS

This document describes the use of the "User LIBrary access utility" (ulib) which is used to access files within departmental libraries.

WHAT IS ULIB AND HOW IS IT USED? `ulib` allows the user to access departmental library software without knowing where the software is located and without having the departmental libraries within their environmental path variable. The user need only know the `ulib` command name. All other information can be derived from the output of the command.

The following document is a tour of the `ulib` command and what it can provide for the user.

HOW DO I GET HELP? Help may be obtained in several ways when using `ulib`.

To get help on what `ulib` is type

```
% ulib help<CR>
```

To see what commands are available under `ulib` type

```
% ulib help help<CR>
```

To see more help on a `ulib` command type

```
% ulib help command<CR>
```

WHAT LIBRARIES ARE AVAILABLE? To obtain a list of the available libraries on the system, type

```
% ulib dir<CR>
```

This will produce a list of the libraries under a series of headers. These fields are:

Lib Name	The name of the departmental library. The values in this column are used whenever you need to provide <code>ulib</code> with a department name.
Department Name	The complete name of the department which owns the library.
Comments and Contacts	The name of the owner of the departmental library, where their office is located, and any other pertinent information about the library.

Using this information, the user can now proceed to the next question.

WHAT IS IN THE LIBRARIES? To obtain a list of the available entries in a departmental library on the system, type

```
% ulib index dept<CR>
```

where **dept** is the abbreviation for the departmental library you wish to examine.

This will produce a list of the libraries under a series of headers. These fields are:

Entry Name	The name of the application.
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Entry Type	What type of entry is this?
Valid values for Entry Type are:	
man	A man page or document.
data	A sample data file which may be obtained by the user with the use of the ulib data command.
run	An executable which may be executed by using the ulib run command.
sample	A sample source file which may be obtained using the ulib sample command.
synopsis	A brief description of the library entry.

HOW DO I GET DOCUMENTATION ON A LIBRARY ENTRY?

All departmental library entries should have an on-line manual page associated with them. Some entries consist only of a manual page (entries with a type of **man**). To view these man pages type

```
% ulib man dept entry_name<CR>
```

where **dept** is the name of the departmental library and **entry_name** is the name of the library entry from the **ulib index** listing.

NOTE: It is the responsibility of the departmental librarian to provide the man page for each entry. Please do not contact Information Technology Services when a man page is unavailable from a department's library.

HOW DO I EXECUTE AN EXECUTABLE LIBRARY ENTRY?

Once you have determined which library entry you would like to execute, type

```
% ulib [run ]dept entry_name[ optional_parameters]<CR>
```

NOTE: the command name **run** is optional and is assumed if the second parameter does not match a valid command. For example

```
% ulib dept entry_name[ optional_parameters]<CR>
```

is equivalent to the previous example.

HOW DO I OBTAIN DATA FILES?

Some departmental libraries may wish to make data files available for copying to the user's account for further editing. To obtain a file which has a library entry type of **data**, type

```
% ulib data dept entry_name destination<CR>
```

A file by the name of **entry_name** will be copied from the departmental library **dept** to the location specified by **destination**.

HOW DO I OBTAIN SAMPLE FILES?

Some departmental libraries may wish to make sample source files available for copying to the user's account for further editing. To obtain a file which has a library entry type of **sample**, type

```
% ulib sample dept entry_name destination<CR>
```

A file by the name of **entry_name** will be copied from the departmental library **dept** to the location specified by **destination**.

HOW DO I OBTAIN SOURCE FILES

Some departmental libraries may wish to make source files available for copying to the user's account for further editing or viewing. To obtain a file which has a library entry type of **sample**, type

```
% ulib source dept entry_name destination<CR>
```

A file by the name of **entry_name** will be copied from the departmental library **dept** to the location specified by **destination**.

WHAT'S NEW IN THE LIBRARIES?

Occasionally, libraries may wish to announce changes to software, or new items.

To view the library news for the **ulib** system, type

```
% ulib news<CR>
```

You will be presented with scrolling text describing the new items that the system librarian has entered.

To view the library news for a departmental library within the **ulib** system, type

```
% ulib news dept<CR>
```

Where **dept** is the name of the departmental library. You will be presented with scrolling text describing the new items that the departmental librarian has entered.

WHAT IF THERE'S INFORMATION MISSING

All departmental libraries are accounts which can receive mail. Simply mail the department abbreviation if something is missing or does not seem to work as it should. Please refer to the User Guide on "UNIX Mail" or "Getting Started - Elm" for more information on how to send mail messages.

COMMAND SUMMARY

The format of the **ulib data** command is

```
ulib data dept entry local_file<CR>
```

or

```
ulib data dept entry path/local_file<CR>
```

where "**dept**" is the name of the departmental library; "**entry**" is the name of the entry within that library to be copied; "**local_file**" is the name of the where the copy is to be placed; and "**path**" is an optional path for the placement of the file.

The format of the **dir** command is:

```
ulib dir<CR>
```

There are no parameters.

The format of the **help** command is

```
ulib help [command]<CR>
```

where "**command**" is an optional ulib command. Type "**ulib help**<CR>" for a list of valid ulib commands.

The format of the **ulib index** command is

```
ulib index dept<CR>
```

where "**dept**" is the name of the departmental library you would like to see an index of.

The format of the **ulib man** command is

ulib man dept entry<CR>

where "**dept**" is the departmental library name and "**entry**" is the name of the library entry for which you would like to receive the man page.

The format of the **ulib news** command is

ulib news [dept]<CR>

where "**dept**" is the department for which the user would like to view the current news file. If "**dept**" is missing, the current news file for the **ulib** system is displayed.

The format of the **ulib run** command is

ulib run dept entry [optional parameters]<CR>

or

ulib dept entry [optional parameters]<CR>

where "**dept**" is the name of the departmental library; "**entry**" is the name of the entry within that library to be executed; and "**optional parameters**" are parameters for ulib to pass to "**entry**" when it is executed.

The format of the **ulib sample** command is

ulib sample dept entry local_file<CR>

or

ulib sample dept entry path/local_file<CR>

where "**dept**" is the name of the departmental library; "**entry**" is the name of the entry within that library to be copied; "**local_file**" is the name of the where the copy is to be placed; and "**path**" is an optional path for the placement of the file.

The format of the **ulib source** command is

ulib source dept entry local_file<CR>

or

ulib source dept entry path/local_file<CR>

where "**dept**" is the name of the departmental library; "**entry**" is the name of the entry within that library to be copied; "**local_file**" is the name of the where the copy is to be placed; and "**path**" is an optional path for the placement of the file.

WHAT DOES THIS MESSAGE MEAN?

ulib: not found

The primary site (zeus) is not up or you misspelled the command. Try again later or check for "zeus" being part of the cluster by issuing the "ptn" command (if "zeus" appears in the output, it's available).

You must provide a valid command or library name as a parameter to ulib.
For help enter: ulib help

Usage: ulib [command] libname progname [options or parameters]

The second parameter to **ulib** must be the name of a valid library, or a valid **ulib** command.

****ERROR**** A library name and entry name must be provided.

Usage: ulib data libname entry dest

For a list of available libraries enter: ulib dir

Not enough information was provided on the command line for the data command.

****ERROR**** The named library libname does not exist.

For a list of available libraries enter: ulib dir

The user entered a library name or ulib command that was either misspelled or does not exist. The library may temporarily not exist if the site it's on is unavailable. This can be tested, if you are sure of the library name, with the "cd" command and attempting to "cd /ulib/dept" where dept is the name of the library. If you get an error, the site is unavailable. REMEMBER to issue a "cd" to get back to your home directory.

****ERROR**** An entry name must be provided.

Usage: ulib data libname entry dest

For a list of available library entries enter: ulib index libname

The user did not provide enough information on the command line for the data command.

****ERROR**** The entry entry_name does not exist or is not available to you.

Check for a list of available library entries for the libname library by entering: ulib index libname

The entry_name provided by the user is misspelled or does not exist.

****ERROR**** You must provide a filename or filename and path to indicate where the file is to reside. For example:

Usage: ulib data libname entry dest<CR>

The user must indicate the destination filename or path and filename as to where the data file is to be copied.

****ERROR**** The library directory file is missing!

Please inform bugs of the problem!

A ulib system file is missing or not set up properly. Mail the account "bugs" about this problem, or contact Information Technology Services.

****ERROR**** The library help file is missing!

Please inform bugs of the problem!

A ulib system file is missing or not set up properly. Mail the account "bugs" about this problem, or contact Information Technology Services.

****ERROR**** Either you entered an invalid command or the help file for the command you specified is missing!

When you entered "**ulib help command**", the command name was either misspelled, or the help file associated with that command is

missing or not set up properly. Double check the command name by typing "**ulib help help<CR>**".

******ERROR****** A library name must be provided.

Usage: ulib index libname

For a list of available libraries enter: ulib dir

The user did not provide enough information on the command line for the index command.

******ERROR****** There is no index available for the libname library.

Please contact that departmental librarian for assistance.

The library index for the library libname is missing or not set up properly. Please contact the owner of the library.

******ERROR****** A library name and entry name must be provided.

Usage: ulib man libname entry

For a list of available libraries enter: ulib dir

The user did not provide enough information on the command line for the man command.

******ERROR****** An entry name must be provided.

Usage: ulib man libname entry

For a list of available library entries enter: ulib index libname

The user did not provide enough information on the command line for the man command.

******ERROR****** The man page for the entry entry_name does not exist.

Check for a list of available library entries for the libname library by entering: ulib index libname

The man page file for the entry name entry_name is missing or not set up properly. Please contact the owner of the library.

******ERROR****** The master library news file is missing!

Please inform bugs of the problem!

The ulib master library news file is missing or not set up properly. Please send a mail message to bugs to inform Information Technology Services of the problem.

******ERROR****** There is no news available for the libname library.

Please contact the departmental librarian for assistance.

The departmental library's news file is missing or not set up properly. Please send a mail message to the departmental library to inform them of the problem.

******ERROR****** A library name and entry name must be provided.

Usage: ulib sample libname entry dest

For a list of available libraries enter: ulib dir

The user did not provide enough information on the command line for the sample command.

****ERROR**** An entry name must be provided.
Usage: ulib sample libname entry dest
For a list of available library entries enter: ulib index libname
The user did not provide enough information
on the command line for the sample
command.

****ERROR**** You must provide a filename or filename and path to
indicate where the file is to reside. For example:
Usage: ulib sample libname entry dest<CR>
The user did not provide enough information
on the command line for the sample
command.

****ERROR**** A library name and entry name must be provided.
Usage: ulib source libname entry dest
For a list of available libraries enter: ulib dir
The user did not provide enough information
on the command line for the source
command.

****ERROR**** An entry name must be provided.
Usage: ulib source libname entry dest
For a list of available library entries enter: ulib index libname
The user did not provide enough information
on the command line for the source
command.

****ERROR**** You must provide a filename or filename and path to
indicate where the file is to reside. For example:
Usage: ulib source libname entry dest<CR>
The user did not provide enough information
on the command line for the source
command.

****ERROR**** A library name and entry name must be provided.
Usage: ulib [run] libname entry [parameters]
For a list of available libraries enter: ulib dir
The user did not provide enough information
on the command line for the run command.

****ERROR**** An entry name must be provided.
Usage: ulib [run] libname entry [parameters]
For a list of available library entries enter: ulib index libname
The user did not provide enough information
on the command line for the run command.

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NOTES