

New Web Access Commands:

A word of caution: Linux server file names are case sensitive, and all specified file names are thus case sensitive. Be sure that all file names are specified exactly as they are stored on the server. Everything after the ".com" in a URL may be case sensitive, depending on the type of server.

The CACHE

All downloaded files are saved in the cache directory - this is a subdirectory in the FastCAD install directory: #cache.

Digest Authenticated Web Sites

Many web sites use Digest Authentication to control access to the site. This requires that the user enter a user name and a password to access the page. All of the new web commands, EXCEPT URLDISPLAY (which uses an interactive dialog to enter the user name and password) may specify the user name and password in the entered URL:

```
<service>://<user>:<password>@<hostname>:<portnr></docpath>?<parameters>
```

An actual example might look like this:

```
http://cofes08:jamaica@evtoolkit.com/beta/work.txt
```

Note that the Firefox browser will honor this extended form of a URL, but Internet Explorer will not. In general, the W3C specifically does not allow this extended form of a URL in its standards.

URLOPEN

The URLOPEN command will download an .FCW drawing file and open it in FASTCAD.

URLPART

The URLPART command will download an .FCW part file and place it in specified locations similar to the PART command.

URLCATALOG

The URLCATALOG command will download an .FSC symbol catalog, and select that catalog for use.

URLSCRIPT

The URLSCRIPT command will download a .SCR script file and run it.

URLDOWNLOAD

The URLDOWNLOAD command will download the specified file. When complete, a dialog is presented that displays the location of the downloaded file, and asks the user if he wants to open it. If he clicks yes, then the document is opened by the shell with the appropriate application. When this command is used to open .FCW drawings, new instances of FastCAD will be created.

URLUPLOAD

The URLUPLOAD command will upload a specified file using a PHP script on the server to upload the file to the server, controlling the file's location on the server, and enforcing any security requirements.

It has the requirements that the specified upload file directory have RWX-RWX-RWX permissions - note that everyone must have EXECUTE, READ, and WRITE permissions on the directory. This will allow uploaded files to be downloaded via HTTP if the upload directory is under the web servers html directory.

The uploaded file will have only read (rw- r-- r--) permissions set, so that a user cannot in fact upload and execute a file.

There is a form POST variable "upload" which has no assigned value.

There is a form POST variable "image" which has no assigned value.

There is a form POST variable "filename" that has the name by which the file will be stored in the upload directory. The transaction is modeled on the use of an HTML form upload control's transaction.

The command prompts for the URL of the upload processor script, a username, password, and file name. A confirmation alert appears when the upload is complete, or if there is an error uploading the file.

The server's php script should be patterned after this one:

```
<?php
echo '<html><head><title>File Upload Response</title></head><body>';

if(array_key_exists('upload',$_POST))
{
    //    define constant for upload target directory
    define('UPLOAD_DIR','/var/www/html/evtoolkit/pfdata/');
    define('ACCESS_URL','http://evtoolkit.com/pfdata/');

    //    replace spaces in file name with _
    $file = UPLOAD_DIR.str_replace(' ','_',$_FILES['image']['name']);
    $fileat = ACCESS_URL.str_replace(' ','_',$_FILES['image']['name']);

    //    move file to upload directory
    if(move_uploaded_file($_FILES['image']['tmp_name'],$file))
    {
        echo "Upload successful. <br />";
        //    this specifies the location for later download of the file
        echo "FILEAT: $fileat<br />\r\n";
    }
    else
    {
        echo "ERROR: File upload move failed.";
    }
}
else
{
    echo "ERROR: No upload command specified.";
}
echo '</body></html>';

?>
```

URLDISPLAY

This command asks for a URL. A mini-browser is opened, displaying that page. Links on pages displayed in this mini-browser can directly interact with FastCAD:

```
URLDISPLAY http://evtoolkit.com/pftest/partinsert.php
```

You can also display HTML store on the local machine:

```
URLDISPLAY C:\fcw6pf\make\obj\test.html
```

or

```
URLDISPLAY #test.html
```

Special Link References

Links can specify a command to be run by FastCAD. If the command string contains %URL, it is replaced with the specified URL before running the command. Here are some HTML examples:

```
<a href="Triangle.FCW?cmd=URLPART;%URL;">Triangle.FCW</a>
```

```
<a href="cage.scr?cmd=URLSCRIPT;%URL;">Run a script: Fan cage  
generation.</a>
```

```
<a href="LEOWING2.FCW?cmd=URLOPEN;%URL;">Open a drawing: LeoWing2.</a>
```

```
<a href="WebCommands.pdf?cmd=URLDOWNLOAD;%URL;">Download and  
optionally open a file: WebCommands.pdf.</a>
```

```
<a href="nothing?cmd=URLCLOSE;">Close this browser.</a>
```