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Writing Extensions

Introduction

BBEdit has a facility for calling code modules which are not part of the application itself. The main reason for this facility is so that users and third-party programmers can add specific functionality to BBEdition which goes beyond BBEdition's own charter. For example, one such code module might prepend Usenet attributions to each line in a selected range of text. This is a useful function, but it's not of interest to everyone.

General Guidelines

BBEdit extensions are built as standalone code resources of type 'BBXT'. The capability to build such resources is an integral part of THINK C, CodeWarrior. Users of MPW can also build standalone code resources, but with less ease.

There may be any number of extensions per file, and extensions can use their own resources. Also, BBXT resources can be of any resource ID, since BBEdition manages the extensions in such fashion that resource name or ID conflicts don't happen. Each BBXT resource in a file should have a name as assigned by ResEdit's "Get Info" command; this name will appear under the **Extensions** menu in BBEdition.

Note: If there are BBXT resources from different files with the same name, users may become confused. Neither Bare Bones Software nor BBEdition will arbitrate extension names.

When BBEdition starts up, it takes account of the extensions in the "BBEdit Extensions" folder. The BBEdition Extensions folder can reside in the same folder as BBEdition itself. Under System 6, the BBEdition Extensions folder can also reside in the system folder on the startup disk; under System 7, the BBEdition Extensions folder can also reside in the Extensions folder in the system folder on the startup disk.

Files containing extensions must be of type 'BBXT'. The creator can be anything you like, although files with a creator of 'R*ch' will have a standard icon. (You can, of course, create bundle resources and icons to give the files any icons you desire.)

BBEdit extensions should be as friendly as possible. They should take care to release any memory that they allocate while running, and they should leave no windows on the screen after they return to BBEdition. In general, BBEdition extensions should be considered one-shot text filters: they do their thing, then exit. They should put no menus in the menu bar, and should not have an event loop. (They can call `ModalDialog()`. It's recommended that you use, or layer on top of, the standard filter that BBEdition provides.)

Note: If you wish, you can write an extension that launches a driver; if this is the case, the driver can have a window which resides in BBEdition's own layer, and/or a menu in the menu bar.

You should assume that any callback will move memory. This means that if you keep pointers into any relocatable blocks, or pass addresses inside relocatable blocks as function arguments, you should lock the block first. For maximum friendliness, move it high with `MoveHHi()` first. You can combine these actions by using the `HLockHi()` call.

Extensions can put up modal dialogs and alerts, provided they're taken down again before the extension exits; they can also call Standard File or any system services necessary, as long as no attempt is made to bring another application to the front.

Programming Interface

Given all of these constraints, what can extensions do?

The answer is: pretty much any transformation on a window's text that they please.

The interface to BBEdit is kept in a structure known as an `ExternalCallbackBlock`. This structure begins with a 16-bit integer which is the version number of the callback block. If the callback block passed to you is higher than one you know about, then there is additional functionality available that you probably don't know about. Conversely, if the version number is less than the one you know about, some functionality that your extension requires may not be available.

The current callback interface version is 4. This version of the callback interface is current as of BBEdit and BBEdit Lite, version 3.0. We recommend that you check the callback interface version in the `ExternalCallbackBlock` to determine whether the version of BBEdit calling your extension provides the necessary services.

Following is the C structure definition for an `ExternalCallbackBlock`. Note that although the members of the structure are shown as function pointer declarations, the actual members as declared in `ExternalInterface.h` are 'opaque'. This was done to facilitate the writing of PowerPC or 'fat' extensions, and to provide for easier maintenance.

```
typedef struct {
    short          version;

    /*          Version 2 callbacks (BBEdit 2.2 and later)      */

    pascal        Handle (*GetWindowContents) (WindowPtr w);

    pascal        void  (*GetSelection) (long *selStart, long *selEnd, long
    *firstChar);

    pascal        void  (*SetSelection) (long selStart, long selEnd, long
    firstChar);

    pascal        void  (*GetDocInfo) (WindowPtr w, Str255 fName, short *vRefNum,
    long *dirID);

    pascal        long  (*GetModDate) (WindowPtr w);

    pascal        Handle (*Copy) (void);

    pascal        Handle (*Paste) (Handle pasteText);

    /*          Text-Editing stuff */
    pascal        long  (*GetLastLine) (void);

    pascal        long  (*GetLineNumber) (long selection);

    pascal        long  (*GetLineStart) (long selection);

    pascal        long  (*GetLineEnd) (long selection);

    pascal        long  (*GetLinePos) (long line);

    pascal        void  (*Insert) (char *text, long len);

    pascal        void  (*Delete) (void);

    /*          Getting and Setting window text */
```

```

pascal      void    (*SetWindowContents)(WindowPtr w, Handle h);

pascal      void    (*ContentsChanged)(WindowPtr w);

/*          Reading file text */
pascal      Handle (*GetFileText)(short vRefNum, long dirID, Str255 fName,
Boolean *canDispose);

/*          Direct user-interface calls */
pascal      Boolean (*GetFolder)(Str255 prompt, short *vRefNum, long
*dirID);

pascal      Boolean (*OpenSeveral)(Boolean sort, short *file_count,
StandardFileReply ***files);

pascal      DialogPtr (*CenterDialog)(short dialogID);

pascal      Boolean (*StandardFilter)(DialogPtr d, EventRecord
*event, short *item);

pascal      void    (*FrameDialogItem)(DialogPtr d, short item);

pascal      WindowPtr (*NewDocument)(void);

pascal      WindowPtr (*OpenDocument)(void);

/*          Utility Routines */
pascal      Handle (*Allocate)(long size, Boolean clear);

pascal      long    (*FindPattern)(char *text, long text_len, long
text_offset, char *pat, long pat_len, Boolean case_sensitive);

pascal      void    (*ReportOSError)(short code);

/*          Preference routines */
pascal      void    (*GetPreference)(ResType prefType, short req_len, void
*buffer, short *act_len);

pascal      void    (*SetPreference)(ResType prefType, short req_len, void
*buffer, short *act_len);

/*          Progress routines */
pascal void    (*StartProgress)(Str255 str, long total, Boolean
cancel_allowed);
pascal      Boolean (*DoProgress)(long done);
pascal      void    (*DoneProgress)(void);

/*          Version 3 callbacks (BBEdit 2.5 and later) */
pascal Boolean (*GetProjectList)(FSSpec *spec, short *kind, short *count,
ProjectEntry ***entries);
pascal Boolean (*ProjectTextList)(FSSpec *spec, Handle *text);

/*          Version 4 callbacks (BBEdit 3.0 and later) */
pascal Boolean (*PresetUndoProc)(void);
pascal void    (*SetUndoProc)(void);

pascal Boolean (*OpenFileProc)(FSSpec *spec, WindowPtr *w);
} ExternalCallbackBlock;

```

Each field of the callback block is a pointer to a routine. Each routine is called with the Pascal calling convention; in the following descriptions the pascal keyword is omitted for clarity.

```
Handle    (*GetWindowContents)(WindowPtr w);
```

returns a handle to the text in the window pointed to by *w*. This routine should only be called on windows which have a window kind of *userKind*.

```
void (*GetSelection)(long *selStart, long *selEnd, long *firstChar);
```

Sets the 32-bit integers pointed to by the arguments to the character offsets of the start of the selection, the end of the selection, and the first visible character in the active editing window.

```
void (*SetSelection)(long selStart, long selEnd, long firstChar);
```

Sets the selection range and first visible character in the active editing window to the values passed. If *firstChar* is -1, the selection range will be centered in the window.

```
void (*GetDocInfo)(WindowPtr w, Str255 *fName, short *vRefNum, short *dirID);
```

Returns information about the window pointed to by *w*. If the window corresponds to a document that doesn't exist on disk, then *fName* will be an empty string, and *vRefNum* and *dirID* will be set to zero. This routine should only be called on windows with a window kind of *userKind*.

```
long (*GetModDate)(WindowPtr w);
```

Returns the modification date (in Macintosh time) of the document whose window is pointed to by *w*. If the document is saved on disk, then the last-modified time of the file is returned; otherwise the time of last edit is returned. This routine should only be called on windows with a window kind of *userKind*.

```
Handle (*Copy)(void);
```

Returns a handle to a copy of the text enclosed by the current selection in the active document. The **caller** is responsible for disposing of this handle when finished with it.

```
Handle (*Paste)(Handle pasteText);
```

Pastes the text in the handle pointed to by *pasteText* into the current selection range of the active document. The **caller** is responsible for disposing of this handle when finished with it.

```
long (*GetLastLine)(void);
```

Returns the number of lines in the active editing document.

```
long (*GetLineNumber)(long selection);
```

Returns the line number of the character offset indicated by *selection*.

```
long (*GetLineStart)(long selection);
```

Returns the character offset of the beginning of the line that *selection* is on.

```
long (*GetLineEnd)(long selection);
```

Returns the character offset of the end of the line that selection is on.

```
long (*GetLinePos)(long line);
```

Returns the character offset of the beginning of line.

```
void (*Insert)(char *text, long len);
```

Inserts the len characters pointed to by text in the current selection range of the active editing document.

```
void (*Delete)(void);
```

Deletes the characters enclosed by the selection range in the active editing document.

```
void (*SetWindowContents)(WindowPtr w, Handle h);
```

Replaces the contents of the document designated by w with the contents of the handle h.

Note: after calling SetWindowContents, the handle belongs to the window, and **must not be disposed**. Also, if you modify the contents or size of the handle pointed to by h after using it in a SetWindowContents() call, be sure to call ContentsChanged() for w.

```
void (*ContentsChanged)(WindowPtr w);
```

This routine should be called if you directly modify the text returned from a GetWindowContents() call.

```
Handle (*GetFileText)(short vRefNum, long dirID, Str255 fName, Boolean *canDispose);
```

Loads the contents of the designated file's data fork into memory, and returns a handle to those contents. If there was an error (insufficient memory, file system error, etc), GetFileText() will return NIL.

The canDispose argument will be set to TRUE if the text was loaded from disk, FALSE if the text belongs to an open window. In the event that canDispose is TRUE, then you should dispose of the text (or use it in a SetWindowContents() call). If canDispose is FALSE, then you **must not dispose the handle**, or else you'll crash BBEdit. Also, you must not modify the contents of the handle if canDispose is FALSE.

```
Boolean (*GetFolder)(Str255 prompt, short *vRefNum, long *dirID);
```

Displays a Standard File dialog box for choosing a folder. Returns TRUE if a folder was selected, FALSE if the user clicked the Cancel button. The vRefNum and dirID of the chosen folder are returned in vRefNum, and dirID, respectively.

```
Boolean (*OpenSeveral)(Boolean sort, short *file_count, StandardFileReply ***files);
```

Displays a Standard File box for choosing multiple files at once. Returns `TRUE` if the user chose any files, `FALSE` if the Cancel button was clicked. If `sort` is `TRUE`, then the files returned will be sorted in alphabetical order; otherwise, the files will be returned in the order the user added them to the list.

The number of files chosen will be returned in `file_count`, and a handle to a list of `StandardFileReply` records (system 7 style) will be returned in `files`.

```
DialogPtr      (*CenterDialog)(short dialogID);
```

Loads the dialog box indicated by `dialogID` and centers it on the screen. The dialog ID should correspond to a dialog which is available in the extension's resource file, and nowhere else. (The resource map chain is configured such that none of your dialog IDs can conflict with `BEdit`'s.)

```
Boolean (*StandardFilter)(DialogPtr d, EventRecord *event, short *item);
```

This standard filter performs some useful standard behavior, such as outlining the default button with a thick border, and handling activates and deactivates for BBEdit's own windows. It is strongly recommended that you pass this pointer as the `filterProc` argument when calling `ModalDialog()` or `Alert()`. If you're writing custom dialog filters in your extension, you should call this routine directly after doing your own preprocessing.

```
void (*FrameDialogItem)(DialogPtr d, short item);
```

This routine will draw a rectangle around the dialog item specified. If the item is a line, a line will be drawn using true gray.

```
WindowPtr (*NewDocument)(void);
```

Opens a new untitled document, and returns a pointer to its window. This document becomes the current document. Will return NIL if for some reason the window couldn't be opened.

```
WindowPtr (*OpenDocument)(void);
```

Puts up BBEdit's standard Open dialog for choosing a file. If the user confirms the dialog and the document is successfully opened, returns a pointer to its window. Will return NIL if the user cancels the dialog or if an error occurred while opening. (If some system error occurs, BBEdit will pose the alert box.)

```
Handle (*Allocate)(long size, Boolean clear);
```

Allocates and returns a handle of `size` bytes. If the `clear` argument is TRUE, the handle will be zeroed. The handle returned will be a real handle, but may reside in MultiFinder temp memory. As with any handle, you should avoid locking handles returned by `Allocate()` for any length of time, and you should dispose of the handle before returning.

```
long (*FindPattern)(char *text, long text_len, long text_offset, char *pat, long pat_len, Boolean case_sensitive);
```

Searches the text buffer pointed to by `text` for the string of characters pointed to by `pat`. `text_len` is the amount of text to search. `text_offset` is the position relative to the start of the text to start searching. `pat_len` is the length of the string to match. If `case_sensitive` is TRUE, then the case of potential matches will be checked.

`FindPattern()` will return the offset relative to the start of the text that the string was found. If the string was not found, `FindPattern()` will return -1.

```
void (*ReportOSError)(short code);
```

Displays an alert box with the proper OS error message corresponding to the OS result code given in `code`. This is handy for reporting filesystem errors, out of memory, and things of that sort.

```
void      (*GetPreference) (ResType prefType, short req_len, void *buffer,  
                          short *act_len);  
void      (*SetPreference) (ResType prefType, short req_len, void *buffer,  
                          short *act_len);
```

The `GetPreference` and `SetPreference` calls are for extensions to use to save and retrieve extension-specific information across runs. The settings are stored in the BBEdit Prefs file as resources.

`GetPreference` will retrieve the preference data stored in the resource of `prefType`, resource ID 128, and copy the contents of that resource into the data pointed to by `buffer`. In all cases, `req_len` represents the maximum number of bytes which will be copied. (**Warning:** the amount of data allocated in `buffer`, be it a static structure or a handle, must be equal to or greater than `req_len`, or else havoc will occur.) The word pointed to by `act_len` will be filled in with the actual number of bytes copied; this is always less than or equal to `req_len`. If `act_len` is negative, the value in `act_len` is an OS error code (usually `resNotFound` if you're calling `GetPreference` with a virgin Preferences file).

`SetPreference` is the complement of `GetPreference`; it writes out the data in `buffer` to a resource of type `resType`, id 128. `req_len` and `act_len` behave as for `GetPreference`.

```

void      (*StartProgress)(Str255 str, long total, Boolean cancel_allowed);
Boolean   (*DoProgress)(long done);
void      (*DoneProgress)(void);

```

`StartProgress`, `DoProgress`, and `DoneProgress` are used in concert to provide simple progress dialog functionality for your extension.

You should call `StartProgress` at the beginning of a long operation. `str` will be displayed in the progress dialog. `total` is an indicator of the overall length of the process. For example, you could pass the number of lines you're processing, or the number of bytes you're processing, or some other scalar indication of the length of the process. If `cancel_allowed` is `TRUE`, then `DoProgress` will return `TRUE` if the user pressed Command-Period (and thus wants to cancel the process).

Note: If you pass `-1` as the "total" parameter, BBEdit will use the "candy-stripe" progress bar to indicate a process of unknown length. However, this capability is supported only in version 4 and later of the callback interface.

During your processing, you should call `DoProgress` as often as you wish. The argument you pass to `DoProgress` reflects the amount, in terms of the `total` argument to `StartProgress`, that has been completed. If you passed `TRUE` as the `cancel_allowed` argument to `StartProgress`, and the user has pressed Command-Period, `DoProgress` will return `TRUE`. If this happens, you should abort your processing. If you passed `FALSE` as the `cancel_allowed` argument to `StartProgress`, you can ignore the result of `DoProgress`, but you should still call it as frequently as you can.

When your process is complete, you should call `DoneProgress`. This callback will remove the progress dialog from the screen. You should always match a `StartProgress` call with a `DoneProgress` call, and you should never call `DoneProgress` without having called `StartProgress`.

Note: BBEdit uses a heuristic to determine whether it's worthwhile to display the progress dialog. For this reason, the progress dialog may not be displayed during shorter processes.

```

Boolean   (*GetProjectList)(FSSpec *spec, short *kind, short *count,
                          ProjectEntry ***entries);

```

`GetProjectList()` takes as input the address of an `FSSpec`; the `FSSpec` refers to a THINK C/Symantec C++, THINK Pascal, or CodeWarrior project. If `GetProjectList()` returns `TRUE`, the short pointed to by "kind" will be filled in with a value indicating the type of project document:

```

enum
{
    kTHINKCProject,
    kTHINKPascalProject,
    kCodeWarriorProject
};

```

The short pointed to by "count" will be filled in with the number of items in the project, and the handle pointed to by "entries" will be filled in with a handle to a list of project-file entries. Each entry describes the location and type of a file referred to by the project:

```

typedef struct
{
    FSSpec spec; // designates file on disk
    long key; // used internally

    char tree; // 0 for absolute, 1 for project, 2 for system
    Boolean found; // FALSE if file couldn't be located;
    if so, all other info is moot

    OSType type; // file type of found file
    OSType crtr; // signature of found file's creator

    short spare0; // used internally
    long spare1;

} ProjectEntry;

```

The “tree” member of a ProjectEntry is one of the following:

```

enum
{
    kNeitherTree, // outside of either system or project tree
    kProjectTree, // in a subdirectory of the project document
    kSystemTree // in a subdirectory of the compiler
};

```

```

Boolean (*ProjectTextList)(FSSpec *spec, Handle *text);

```

ProjectTextList() will generate a textual listing of the project document’s contents. If it returns TRUE, the handle pointed to by “text” will be filled in with a handle the text itself. As with GetProjectList(), the “spec” argument is the address of an FSSpec referring to the project document on disk.

```

Boolean (*PresetUndo)(void);
void (*SetUndo)(void);

```

PresetUndo() and SetUndo() are used in tandem, so that the user can reverse the effect of your extension by choosing the “Undo” command from BBEdit’s Edit menu. Your extension should call PresetUndo before starting an undoable action, and SetUndo after completing it. Before calling PresetUndo, set the selection range to encompass the text you’ll be modifying. If you plan to change, delete, or replace all of the text in the window, then set the selection range to {0, 0x7FFFFFFF} before calling PresetUndo.

Note: In order for your extension to be undoable, the “Can be Undone” bit in the ‘BBXF’ resource needs to be set. See “Extension Control Flags”, below.

```

Boolean (*OpenFile)(FSSpec *spec, WindowPtr *w);

```

Use OpenFile() to open a specific file from disk. BBEdit will return TRUE if the file referred to by “spec” was successfully opened, and the WindowPtr pointed to by “w” will contain a pointer to the newly opened document’s window.

For examples of how to use the various callbacks, look at the sources to the standard extensions in the “Extension Sources” folder.

Extension Control Flags

BBEdit provides a mechanism by which the extension writer can control the behavior of the extension, and inform BBEdit of the extension's capabilities. If a four-byte resource of type 'BBXT' is in the same resource file as the extension, and has the same resource ID as the extension, then BBEdit will treat the contents of the 'BBXT' resource as flags to control the behavior of BBEdit with respect to the extension.

The "BBXT Resource Template" file contains a resource template suitable for use by ResEdit or Resorcerer^{1*}. You can copy and paste the 'TMPL' resource into your resource editor, its preference file, or merely have the file containing the template open while you're editing 'BBXF' resources.

The names and meanings of the flags are as given in the following table. Note that the bits are grouped together for easier understanding; the groupings are not necessarily representative of the bits' ordering in the 'BBXF' resource:

Bit Name	Meaning
Undo-Savvy	If set, then your extension performs an undoable action. Use this bit in conjunction with the "Can't Undo Alert" and "Can be Undone" bits (see below).
Can't Undo Alert	If the "Undo-Savvy" bit is set, and the "Can Be Undone" bit is <u>not</u> set, then BBEdit will issue the alert: "(extension name) cannot be undone. Do you wish to continue?" before running your extension. If your extension does not modify the front window, then set this bit to zero, the "Undo-Savvy" bit to one, and BBEdit will not present the alert before running your extension. (See the "Project Statistics" and "Concatenate" extensions for examples.
Can Be Undone	If set, then BBEdit expects your extension to use the PresetUndo and SetUndo callbacks, and will change the "Undo" item on the Edit menu accordingly after your extension has run.
Requires Non-Empty Window	If set, BBEdit will disable the item on the Extensions menu corresponding to this extension, if the front editing window has no text in it.
Requires Changeable Window	If set, BBEdit will disable the item on the Extensions menu corresponding to this extension, if the front window is read-only (or a browser window).
Requires Edit Window	If set, BBEdit will disable the item on the Extensions menu corresponding to this extension, if the front window is not an editing window.
Requires Selection	If set, BBEdit will disable the item on the Extensions menu corresponding to this extension, if the selection range in the front window is empty.
Requires PowerPC	If set, then the extension will only run on a Power Macintosh. (Do not set this bit if you are writing a 'fat' extension. See "Writing PowerPC Extensions", below, for more details.) BBEdit will disable the item on the Extensions menu corresponding to this extension, if this bit is set and BBEdit is not running on a Power Macintosh (or if the "BBEdit Power" plug-in is missing).
Unused & Reserved (startup)	Reserved for future expansion; should be set to zero.
Use Option key for Defaults	Reserved for future expansion; should be set to zero.
Supports New Interface	reserved for future expansion; should be set to zero, or your extension will crash.

^{1*} Resorcerer is a product and trademark of Mathemæsthetics, Inc. Applelink: RESORCERER. Internet: resorcerer@applelink.apple.com.

Writing PowerPC Extensions

BBEdit 3.0 is accelerated for Power Macintosh, and the extension developer's kit provides for the creation of extensions containing native PowerPC code, for increased performance.

Extensions containing PowerPC code may be 'accelerated' code resources, or 'fat' code resources. An 'accelerated' code resource is one that consists solely of PowerPC code, and can only run on Power Macintosh machines. A 'fat' code resource contains both 68K and PowerPC code, as well as a code header which makes the determination at runtime of which piece of code should run.

This document does not explain how to construct fat or accelerated code resources. The currently available PowerPC development systems, including Metrowerks' "CodeWarrior" and Apple's "Macintosh on RISC SDK" include information and examples; in addition, *Inside Macintosh: PowerPC System Software*, published by Addison-Wesley, gives important information in the construction of accelerated and fat code resources.

The "Educate Quotes" example, supplied in this developer's kit, provides a working example of how to write a 'fat' BBEdition extension. The scripts and Rez description files will prove useful for creating your own fat extensions, as well.

Some important things of which you should be aware:

- When creating an 'accelerated' code resource (one that requires a PowerPC for execution), be sure to set the "Requires PowerPC" bit in the 'BBXT'. When you do so, BBEdition will disable the menu item corresponding to that extension. If you do not set this bit, users on 68K Macs may attempt to use your extension, with unpleasant results.
- When creating a 'fat' code resource, we recommend that you use the 'sdes' fat resource header (see the Educate Quotes example). This will provide transparent compatibility with both 68K and PowerPC Macintosh models.

BBEdit 3.0 provides support for PowerPC extensions by setting up the callback routine addresses to be the addresses of Mixed-Mode Manager routine descriptors. This has two practical consequences:

- If you've written extensions for BBEdition before, you'll find that you need to change your source code in order to work with the new `ExternalInterface.h`. The changes are very similar to the changes required for older programs to compile with the new "universal" Mac headers: instead of directly calling a function pointer, use a macro to call the function pointer with the proper arguments.
- BBEdition Lite does not support the use of any extensions containing PowerPC code. If you want to write native PowerPC extensions to use with BBEdition Lite, you'll need to create routine descriptors yourself, using the constants in `ExternalInterface.h`. Note that the routine descriptors should be created with the "kM68kISA" architecture, since they're the addresses of emulated 68K routines.

Demo Extensions

In addition to 827 and Prefix Lines, the following demo extensions are supplied:

Concatenate Files

Concatenate Files is a simple extension which demonstrates more of BBEEdit's extension facilities. This extension poses an "Open Several..." dialog in which you can specify a number of text files. The files you designate will be concatenated and the text of all of them will be placed in a new untitled window (provided that there is enough memory).

Educate Quotes

Educate Quotes is a simple extension which converts straight quotes in your document into "smart" quotes, just as if you had manually gone through the document and re-typed all of the quotation marks with Smart Quotes turned on for the document. Educate Quotes is also used as an example of how to write a "fat" extension, that is, one that runs native on both PowerPC and 680x0 Macs. See the section "Writing PowerPC Extensions" for more information

Hello World

Hello World is a trivial extension that creates a new untitled document window with the text "Hello World" in it. It is purely a demo, with no useful function whatsoever.

Cut Lines Containing

This extension will search through the current document for lines which contain the search string that you enter in the dialog box. Each line found will be placed in the Clipboard and deleted from the document.