

PatchCX

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Chapter 1

PatchCX

1.1 PatchCX.guide

PatchCX Amigaguide Manual

PatchCX is a support commodity for the patch.library by Stefan Fuchs <snfuchs@sokrates.franken.de>. In the current state it is not much more than patchlist with a resizable, fontsensitive and iconifiable gadtools gui.

It displays information about the patches which are currently installed in your system through the patch.library (which function is patched in which library by whom). If you have the FD files for the patched libraries, PatchCX is able to display the names for the patched functions and not just their library offsets.

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Beta Info

This PatchCX version is a Beta Version, i.e. it was tested so far only by myself and it might crash on your system, although it runs without problems here. For that reason it is compiled with a run-time system which should prevent crashes but also might not.

Therefore the PatchCX binary is quite big. Without the run-time system the binary is about ~30 KByte smaller. Not really small either but, come on, all the gui stuff need some bytes too....

1.2 PatchCX.guide/Legal Issues

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1.3 PatchCX.guide/Requirements

patch.library

You will find it on Aminet:util/libs/patchlib#?

PatchSetFunc

You will find it on Aminet:util/misc/PatchSetFunc.#?

PatchSetFunc patches exec.libraries SetFunction function to use the patch.library. PatchCX is quite useless without PatchSetFunc at the moment, since nearly all patches don't directly use the patch.library.

AmigaOS 3.0+

The gadtools.library is IMHO unuseable without GT_GetGadgetAttrs. This function appeared first time in V39, so PatchCX needs AmigaOS 3.0+.

fd files

You don't really need them, but PatchCX can't display any function names without them.

If you don't have any fd file, you will find the fd files for the system libraries on the Amiga Developer CD v1.1 in NDK_3.1/Includes&Libs

For third party libraries the fd files should be part of their developer material, if there is any.

Patches ;-)

I guess, most of you have already more than enough of them.

1.4 PatchCX.guide/Installation

Put it anywhere you like it.... you may use the provided installer script.

1.5 PatchCX.guide/Menus

Project

Hide

Quit

About

I don't have to describe them, do I?

Misc

Save current list

saves the currently displayed information in the listview to the file selected in the asl file requester which will pop up.

1.6 PatchCX.guide/Gui

The main window contains only a listview and an 'update' button. To get the information about the installed patches select the update button.

'patched functions' Listview-Gadget.

It has a fillPen frame (should be the same as the window color)around it, indicating that cursor up/down movements will go to this gadget.

If you use a proportional font for 'screen texts' (the third from the top in the font prefs) you can adjust the column spacing with the +/- keys.

Iconify-Gadget.

To the left of the zoom gadget is another zoom gadget, which is used as an iconify gadget.

NOTES:

'updating' the list: If you use the fd-file system, it will need a 'few' seconds to parse the fd files. On my system (A4040) it needs about three seconds.

1.7 PatchCX.guide/Tooltypes

left, top, width, height

initial position and dimensions for the application window(s).

CX_PRIORITY, CX_POPKEY, CX_POPUP

the standard commodity tooltypes.

fdpath

the path to the directory where you keep the your fd files. It may contain subdirectories with more fd files.

listformat

with this, you can change the format, in which sequence and which of the possible information gets displayed in the listview gadget about the patches. It is a string which contains a single capital character for every possible information. PatchCX is sensitive to their sequence, absence or presence.

L

is the identifier for the 'L'ibrary name. If it is part of the listformat, PatchCX will show you in which libraries the patched functions are. If it is not in the listformat PatchCX will not display the library name.

O

is the identifier for the function 'O'ffset. If it is in the listformat, PatchCX will show you the offsets for the patched functions. If it is not in the listformat PatchCX will not display the offset.

I think you got the system, so I will only describe the meanings for the rest of the possible identifiers.

F

is the identifier for the 'F'unctions name.

NOTE:

PatchCX currently parses the fd-files independent of the listformat. So if you don't have the 'F' in the listformat, PatchCX will nevertheless parse the fd files. The only way to disable the parsing at the moment is to clear the fdpath tooltype.

I thought the first time about it, while writing this documentation. ;)

N

is the identifier for the 'N' name of the patch. Usually, at least with PatchSetFunc, the name of the program which installed the patch.

T

is the identifier for the 'T' type of a patch. The type is either 'user' if the program used the patch.library directly to install the patch or 'system' if the patch was installed with PatchSetFunc.

P

is the identifier for the 'P' riority of a patch. Positive priorities indicate that the patch is called before the original routine. Negative priorities indicate the it is called after the patch and a priority of zero says it it called instead of the original.

If you don't use the listformat tooltype, PatchCX will use the following list format: LOFNTF

WINDOW

don't remove this, or you will get a permanent window on your Workbench after starting PatchCX. It will open automatically when PatchCX has something to say, which normally should never happen.

1.8 PatchCX.guide/FDfiles

'The naming and register conventions for function entries in library-like operating-system modules are described in the so called "FD files" (FD = function descriptor)'.

'The Amiga Guru Book', Ralph Babel

Library functions are called, and patched too, by 'offsets'. Therefore the patch.library has no idea about the name to such an offset or is even interested in. It is PatchCX work to 'know' the function name to a given library name and a given offset. The fd files are quit usefull here, because they are named after their corresponding libraries and one can find the name to a given function offset in them.

1.9 PatchCX.guide/Author

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1.10 PatchCX.guide/History

0.0B3 first public release.

0.0B4 first Aminet release.

- a lot of changes to the gui engine.

1.11 PatchCX.guide/Index

ups, nothing in here so far....
