

Barf's patch page

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1. Revision history

Date	Description
...	...
2006-06-05	Following patches are now checked-in or obsolete: Online updates, infobar, avsstuff, discrete on/off for Neutrino, saa7126, mcrec, IMDB, LIRC-Patch. Link to the ghosting patch added. Updated camd.c.diff-errormessage. Misc. small improvements.

2. Barf's Patches

Name/Link	Date	Description	Forum thread(s)	Status
kabr	2006-03-29	A translation layer for remotes and keyboards. See the article .	Volle Unterstützung der Dbox2 Tastatur	Works, but needs some testing.
Found in CVS, partially in branch newmake. Ghosting patch .	2006-05-15	The well known Unix/Linux automounter taken to Tuxbox by yours truly. See Thread. Requires newmake. See the article .	Automount / autofs	Working.
controldc.cpp , Makefile.am.contro	2006-01-15	An interactive command line tool for sending messages to controld. For experimenting and debugging controld, as well as allowing switching video format etc without bypassing controld. See code. Put C++-program in directory <code>...apps/tuxbox</code> and patch the Makefile.am there.	controldc: Kommandozeilenpr zum Plappern mit controld	Just works. No big deal. Not really polished.

dclient,

<p>In CVS, branch newmake.</p>		<p>The newmake rewrite of the Tuxbox build system. See this article, as well as the architecture article.</p>	<p>Flashtargets in Makefile umgeschrieben (concepts); @BARF wegen deinen neuen Rules :-) (support); Bugreports zu "new flashrules barf" (bugs); new flashrules barf beispiel (advocacy).</p>	<p>Stable. Checked in in the branch "newmake".</p>
<p>zapit audio patch</p>	<p>2005-10-23</p>	<p>For Neutrino. Using this patch, Tuxbox will, for each channel, remember the last selected AudioPID (that characterizes an audio channel) and save it, also between reboots. When returning to the channel, it will attempt to use the previously selected audio channel, if still available. Patch is against version 1.375 of zapit.cpp.</p>	<p>Forum thread, see also this thread, and this.</p>	<p>Stable, widely tested, works perfectly. For "religious" reasons (see the referenced threads), will not to be committed. The patch is very popular with image providers.</p>
<p>neutrino.cpp.diff</p>	<p>2005-04-02</p>	<p>Optional SCART-Mode by startup for Neutrino. Active-going pin-8 on the VCR-SCART wakes the dBox from standby. It would be logical and useful, that the Tuxbox enters Scart-mode directly, if pin8 is active when</p>	<p>Forum Thread.</p>	<p>Not 100% reliable. Neutrino may go to an undefined state as Pin-8 goes low again.</p>

		booting (like BetaNova).		
camd.c.patch-error	2006-06-05	Error message for not subscribed channels. Sometimes when switching to a (sub-)channel, the screen simply stays black, without no user message at all. This patch to camd.c, generates a (unfortunately not localized) error message for the case of the channel not being subscribed to/the sub channel not being available. Not really Neutrino-dependent but rather dependent of the Neutrino NHTTPD-API.	Yes.	Works, but is a very ugly hack.
camd.c.patch		De-deactivating. This de-deactivates certain capacities in camd.c.	Yes.	works
channellist.cpp , channellist.h , and neutrino.cpp		Improved handling of hidden bouquets. Using the WEB-Interface (or by editing bouquets.xml manually), bouquets can be marked as "hidden". These should be "hidden" from the zapping user. Unfortunately, by	Forum thread.	Unfortunately, something with this patch triggers a bug/problem somewhere. When zapping down, and jumping over a hidden bouquet, something regarding the avia-decoding may go into a silly state. Don't apply, unless you want

		zapping, next-channel and previous-channel enters the hidden bouquets. Furthermore, you can select them by entering the channel number. These patches to stop this erroneous behavior.		to find the problem!)
Fix to menue.cpp .		The menus of Neutrino has a fairly stupid time-out behavior: when a menu times out, control is returned to its precessor, instead of closing a possible menu hierarchy.	yes	Works, at least most of the time.

3. Checked-in Patches

Name/Link	Date	Description	Forum thread(s)	Status
Checked in to CVS.	2006-02-21	Modernization of Neutrino's online update facilities. See the article .	Modernisierung der Neutrino onlineupdatefunktio	Checked in, here (among others).
infobar.cpp.diff	2006-01-22	With this patch, the infobar does not time out in radio mode. See Thread.	bitte kein OSD timeout im Radio Modus (Neutrino)	This checkin implements a separate time-out for the infobar in radio mode; setting this to 0 achieves the desired effect.
avsstuff	2006-01-05	Improved Audio/Video Switching with Neutrino. See its own page .	Konfiguration Videoausgänge Terminatorbug	Committed here.

- It is common to manually add entries (services) to `/var/tuxbox/config/zapit/services.xml`, for example to be able to make timer

recordings of subchannels. See [this thread](#). The problem is, that the next channel scan destroys the manually added information. [Thread](#). This patch for [getservices.cpp](#) and introduces another services-files, called `myservices.xml` and `antiservices.xml`. They should have the same semantic and syntax as the `services.xml`-file. All manual additions should be made to this `myservices.xml`, which will never be overwritten by the system. Entries made to `antiservices.xml` will be removed from the services list, for channels that you (or other users of the dBox) will never want to access or even see in the channel listings.

- Recently, a timeout was added to the LCD-display. [Thread](#). Enclosed [patch for neutrino.cpp](#) turns on the LCD-display when Home is pressed.
- The present CVS-Neutrino does not object to being shutdown in the middle of a recoding, thus (possibly accidentally) ruining a recording. Here is the fix, as a [patch to neutrino.cpp](#). [Thread](#).

4. Obsolete Patches

Name/Link	Date	Description	Forum thread(s)	Status
saa7126_core.c		Once, if the Tuxbox is set to generate S-Video (also known as Y/C, and, incorrectly, S-VHS) on the TV-Scart, the VCR-Scart delivers only a black-and-white (technically VBS) signal as "composite" (CVBS) output. This patch, solved the problem (but not without a price...).	this , this , and this . this thread .	Obsolete by avsstuff.
mcrec patch		mcrec is a nice tool for the digital streaming of the radio channels of Music Choice. This patch makes it more usable by implementing options for hierarchical storage, XML-File	Forum thread .	Probably just as obsolete as mcrec.

		generation, and filename uglification. Note: the patch is against version 0.17, not against 0.18 which is the current version in the Tuxbox CVS repository.		
Patch to global.css and epg.html .		This little hack integrates IMDB (Internet Movie DataBase) support into the Neutrino Web server. With this patch applied, every film info page gets an additional link entitled "Suche IMDB", which, when pressed, issues a reasonably intelligently chosen search command to the IMDB. Simple, but useful. To use this patch, it is not necessary to patch the source tree, or rebuild the image: Just put patched versions of <code>global.css</code> and <code>epg.html</code> in <code>/var/httpd_pri</code>	Forum thread.	Works fine, however not with the new web interface by yjogol. Loses on titles like "German Title (English Title)".
LIRC-Patch for controld.cpp		LIRC-Support for 16:9/4:3 automatic format adjustment. The Tuxbox software supports automatic aspect ratio switching both through	-	Works. Updated 2005-08-23 (performance improvement). Included in the avsstuff patch (thus obsolete).

		<p>SCART-Pin 8 and WSS on line 23. Unfortunately, there are situations when both these methods are not enough, see my setup. For example, my projector (Panasonic PT-AE500) when connected by YUV-signals does not evaluate WSS, and does not use Pin8. Therefore, the possibility of sending LIRC-commands when switching between 16:9 and 4:3 is desirable. This patch extends the LIRC-capacities of Neutrino, in that, when switching to 16:9 (4:3) format, the LIRC-File <code>16:9.lirc</code> (<code>4:3.lirc</code>), if present, is executed as a LIRC-file. (Yes, I know, some operating systems have problems with file names containing colons. On Tuxbox, and other sane operating systems, this is not an issue.)</p>		
<p>This patch to <code>rcinput.cpp</code> makes</p>	2005-06-25	<p>Discrete on/off for Neutrino. It is a pain in the a* that</p>	<p>Forum thread.</p>	<p>Works with no problems. Largely obsoleted by the</p>

<p>Bottom-right an OFF-button, and this patch to neutrino.cpp does the rest.</p>		<p>today's consumer electronics often do not come with separate on- and off-buttons, but with only a toggle-button. Of course, a human being can tell what state a device is in (on or off for example), but for the purpose of home automation, it is desirable to send signals, for example from your remote control, to turn the thing OFF (or on), regardless of its present state. The dBox with Betanova OR Tuxbox software is just as silly, at least without this patch. There is also a "Discrete-Standby" implemented. Note that "Bottom Left" and "Bottom Right"-buttons are required. For those whose remote controls do not contain these, but instead own a Philips Pronto, the forum participant "move" posted the Pronto codes in the same thread.</p>	<p>kabr-patch above.</p>
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- [Imagekit](#) from 2003-12-15. Integrates the creation of dBox images, jffs2only or mixed (cramfs + jffs2) into the configure /make-process. Comes with documentation in a tar.gz archive. See [thread](#). Obsoleted by newmake.
- Original version of the [ImageKit](#). Obsoleted by newer version.

- [Remember AudioPIDs](#) For Neutrino. Using this patch, Tuxbox will, for each channel, remember the last selected AudioPID (that characterizes an audio channel) and save it, also between reboots. When returning to the channel, it will attempt to use the previously selected audio channel, if still available. [Forum thread](#). Obsoleted by the zapit patch described above.
- [Select start channel](#). For Neutrino. Not everyone likes to be reminded in the morning of what they viewed late last evening ;-). This patch implements two option flags for zapit: with -a, the starting channel is take from the file /var/tuxbox/config/zapit/start_channel.conf (if it exists). If using the -r option, zapit will never attempt to write its configuration file to non-volatile memory. [Forum thread](#). (Despite being patches to the same file, this and the previous patch can be applied independently of one another, or both.) Obsoleted by the zapit patch described above.
- 16:9 mode for an application designed for 4:3 looks extremely ugly. Presently, Neutrino contains several such situations. It would be quite hard to fix the distorted menus, but some cases are easy to fix. [This patch](#) to neutrino.cc forces 4:3 in radio mode, and [this patch](#) to mp3player.cpp forces the mp3-player to use 4:3. [This patch](#) to scan.cpp fixes channel searching. Note that the patch make sense only for users using automatic pin-8 video format. [Forum thread](#). (Obsoleted by newer official versions.)

5. Barf's Binaries

Here we provide some binaries for the user who can not compile the sources themselves.

Name	Date	Description
kermit	2006-01-05	The classical communication/file transfer program, compiled for the dBox. Home Page here.
zapit	Version 1.388; 2006-06-05.	with the audio-patch above applied.