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- Implement USB on all *BSD systems. Note, the kernel drivers on most of these systems are still fragile. There are known problems, for example, on FreeBSD.
 - Fix killpower on USB UPSes to properly turn off UPS.
 - More killpower fixes for BackUPS Pros.
 - Fix killpower sequence for serial UPSes.
- > Release 3.10.17 xxMar05
- Update default apcupsd.conf to recommend a blank DEVICE setting for USB driver.
 - Add /dev/hiddev? to Linux USB driver device node search path.
 - Add Mac OS X startup script
 - Add new *BSD USB driver to support USB UPSes on FreeBSD, OpenBSD, and NetBSD. THIS DRIVER IS BETA SOFTWARE AND HAS A KNOWN LOCKUP ISSUE ON FREEBSD. Please keep this in mind when deciding whether or not to deploy it. PLEASE READ THE "CHECKING OUT YOUR USB SUBSYSTEM (BSD)" SECTION OF THE MANUAL as it contains crucial details on how to configure your system for the new driver.
 - Add BackUPS Pro shutdown code to USB driver
 - Prefer BackUPS style shutdown over SmartUPS in USB driver to resolve shutdown issues on BackUPS CS models
 - Restructure USB driver to share common code
 - Fix slave mode segfault bug introduced by --killpower fixes in 3.10.16.
 - Commit kernstodo
 - Added an anonymous patch to powerflute.c and to the slack-apcupsd.in file.
 - Add Whitebox to detected systems.
 - Minor tweak to RedHat spec.in
 - Apply Carl Lindbergs patch for apcaction.c to fix the network management card shutdown.
 - Fix typo in targets.mak that prevents uninstall from working.
 - Change name of thread_terminate to apc_thread_terminate to avoid conflict on AIX.
 - Put configure found SHUTDOWN in apccontrol.in
 - Figured out how to scale the pdf images, so re-did them.
 - Some minor updates to the manual, particularly the title page.
- > Release 3.10.16 04Nov04
- Adam has fixed the killpower problem for USB so that the USB now properly turns off the power. Nice job.
 - Converted manual from docbook to texinfo format. There is some cleanup to be done, but we get an index.
 - Thanks to Adam for converting the .png images to .pdf
 - Apply patch to fix aastr... supplied by Manfred Schwarb.
 - Changed Solaris to use mailx by default at the suggestion of Neil Brookins.
 - Added Adam's snoopdecode.c to examples that allows viewing USB events.
 - A number of typos fixed in apccontrol files.
 - Adam fixed a race condition in killpower with --kill-on-powerfail.
 - --kill-on-powerfail disallowed for dumb UPSes since the kill power will always occur before the system has been halted.
 - Lots of doc updates.
 - Add proper platform code so that configure will create the 4 platform specific apccontrol files (some were missing).
 - Apply fix from user to correct one of the shutdown sequences for the Smart UPS. During the conversion to drivers this was apparently mangled.
 - Added code to close all file descriptors before becoming daemon unless debug turned on.
 - Add APCBATTCapBeforeRestore found by Adam to hid-ups.c
 - Update copyright in apc_struct.h
 - Take Adam's new apc_defines.h with minor modification.
 - Correct a bug reported by a user (he also had the fix) to the snmp driver where Sensitivity was incorrectly reported.
 - Add astrncpy() to snmp driver.
 - Fix apcstatus.c to report Unknown for the sensitivity rather than High if the sense word cannot be read or is incorrect.

----> Release 3.10.15 07Aug04

- the files I touched.
- Updated the net driver and did a fairly good testing of it.
- Made apcupsd remain in the foreground when doing a kill power.
- Eliminated some of the error messages during kill power by not doing useless things.
- Added back code to print what is happening during kill power in the USB code.
- Corrected a few of the USB error messages that could have been misleading or confusing.
- Eliminated some inappropriate usages of size_t.
- Integrated a number of updates into the manual, particularly from Adam.
- If the IP address is 0.0.0.0 force it to localhost in apcaccess.
- Integrat Thomas Habets' changes to keep connect() from blocking in apcnet.c so that apcupsd can service more slaves.
- Ensure that stdin/out/err are allocated in daemon_start() of apcupsd.c
- Update snmp.c with bug fix from Bacula.
- Bill has made numerous changes to improve the code such as adding consts where appropriate.

----> Release 3.10.13 20Apr04

- Added code to support net snmp configured with --enable-net-snmp based on patch sent by Sander Siemonsma.
- Build smtp on Unix systems.
- Update to most current smtp and make it easier to configure for apcupsd or Bacula
- Start implementing native Win32 version.
- Rename cmd - ups_event and cmd_msg - event_msg
- Add user supplied code to make apcaccess read the conf file and self configure to proper port. Thanks to Martin Flack for this patch.
- Start simplifying the Copyright and making the dates current.
- Rework the net driver. It was really in poor shape.
- Replace sprintf with asprintf. Replace strcpy with strncpy
- Apply a fix supplied by Jim Pick where syslog releases the usb port and then re-attaches it to /dev/log.
- I finally took a careful look at the old master/slave networking code as well as ran it here, and it was sadly broken. Hopefully this commit fixes the problems.
- Fix a few string functions using the new routines.
- Added asys.c imported from Bacula, which contains a number of simple system routines such as strncpy(), ...

0027s-
Guide).

002dLine-

UPSeS).If you need more details about administration for unusual situations (such as a master/slave or multi-UPSeS setup) you'll need to read the section on advanced topics (see Advanced topics manual.tex Advanced - topics). Finally, the logging formats.

003b-
UPSeS-

and-

Cables).Second, plan your configuration type (see Choosing a Configuration Type manual.tex Choosing - a - Configuration

005f table) to see if it's a supported type. If you don't have a vendor-supplied cable, or your type is not supported, you may have to build one yourself (see Cables manual.tex Cables). Here is hoping you

002dUp) on your computer so that bootsu pevery time it gets power. (This is not the default on most systems.) To verify that your U

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\includegraphics{./main_configs.eps}
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```
mount -t usbdevfs none /proc/bus/usb
```

```
KERNEL="hiddev*", NAME="usb/hiddev%n"
```

```
cat /proc/bus/usb/devices
```

usbinfo.txt.html

```
T: Bus=02 Lev=01 Prnt=01 Port=00 Cnt=01 Dev#= 3 Spd=1.5 MxCh= 0
D: Ver= 1.10 Cls=00(>ifc ) Sub=00 Prot=00 MxPS= 8 #Cfgs= 1
P: Vendor=051d ProdID=0002 Rev= 1.06
S: Manufacturer=American Power Conversion
S: Product=Back-UPS RS 1000 FW:7.g3 .D USB FW:g3
S: SerialNumber=JB0308036505
C:* #Ifs= 1 Cfg#= 1 Atr=a0 MxPwr= 24mA
I: If#= 0 Alt= 0 #EPs= 1 Cls=03(HID ) Sub=00 Prot=00 Driver=hid
```

```
T: Bus=01 Lev=01 Prnt=01 Port=00 Cnt=01 Dev#= 2 Spd=1.5 MxCh= 0
```