Network UPS Tools Change Log

NUT project community contributors

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME
2.8.2.2575 2.8.2.2575-2575+ge2844cb48	2025-03-28	Current release snapshot of Network UPS Tools (NUT).	
2.8.2	2024-04-01	Some changes to docs and recipes, libnutscan API and functionality. Added nutconf (library and tool). Fixed some regressions and added improvements for certain new device series.	JK
2.8.1	2023-10-31	Some changes to API, docs and recipes, in particular to simplify local builds and tests (e.g. to help end-users check if current NUT codebase trunk has already fixed an issue they see with a packaged installation). Revived NUT for Windows effort, further improved other OS integrations. NUT became reference for "UPS management protocol", Informational RFC 9271. Documentation files refactored to ease maintenance. More drivers and new driver categories introduced.	JK
2.8.0	2022-04-26	Change of maintainer. Many changes to API, docs (both style and content), and recipes, with a stress on non-regression test-ability, run-time debug-ability, general codebase maintainability, as well as OS integrations (notably nut-driver-enumerator for systemd and SMF service instance maintenance). Added a lot in area of CI support and documented pre-requisite package lists for numerous platforms, and CI agent set-up. Added libusb-1.x support and many new driver categories (and drivers), and daisychain device connection support. Instant commands enhanced with TRACKING to enable protocol-based waiting for completion of a particular INSTCMD or SET operation.	JK
2.7.4	2016-03-09	NUT variables namespace updated, in particular for outlet groups, alarms and thresholds, ATS devices, and battery.charger.status to supersede CHRG and DISCHRG flags published in ups.status readings. NUT network protocol extended with NUMBER type; some API changes.	AQ

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NUMBER	DATE	DESCRIPTION	NAME
2.7.3	2015-04-22	Documentation revised, including some API changes. Added NUT DDL links. NUT variables namespace updated.	AQ
2.7.2	2014-04-17	The nut-website project was offloaded into a separate repository. FreeDesktop HAL support was removed (obsoleted in GNOME consumer). Introduced nutdrv_atcl_usb driver.	AQ
2.7.1	2013-11-19	NUT source codebase migrated from SVN to Git (and from Debian infrastructure to GitHub source code hosting). jNut binding split into a separate project. Introduced libnutclient (C++ binding), al175, apcupsd-ups and nutdrv_qx drivers, Mozilla NSS support for simpler licensing than OpenSSL, and a newer apcsmart implementation. Documentation support enhanced with a spell checker, contents massively updated to reflect project changes.	CL
2.6.5	2012-08-08	New macosx-ups driver, new implementation of mge-shut driver. NUT variables namespace updated. Docs cleaned up and revised.	AQ
2.6.4	2012-05-31	New NUT network protocol commands (LIST CLIENTS, LIST RANGE and NETVER), and socket protocol commands (ADDRANGE, DELRANGE). NUT variables namespace updated. Introduced nut-recorder tool.	AQ
2.6.3	2012-01-04	No substantial changes to documentation.	AQ
2.6.2	2011-09-15	Introduced nut-scanner tool and nut-ipmipsu driver, systemd support, and a new apcsmart implementation.	AQ
2.6.1	2011-06-01	Introduced default.* and override.* optional settings in ups.conf, an ups.efficiency report, and outlet.0 special handling.	AQ
2.6.0	2011-01-14	First release of AsciiDoc documentation for Network UPS Tools (NUT).	AQ

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2.2432 2011-03-22 Praveen Kumar <praveenkumar-guest@alioth.debian.org> . . . 576
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1 Introduction

The primary goal of the Network UPS Tools (NUT) project is to provide support for Power Devices, such as Uninterruptible Power Supplies, Power Distribution Units and Solar Controllers.

2 Very detailed Change Log

This document intends to detail the change log for relatively recent work (roughly since the source code was tracked in Git).

2.1 2025-03-27 Jim Klimov <jimklimov+nut@gmail.com>

- m4/ax_realpath_lib.m4: fix library search path detection for mingw/MSYS * lacked separation into lines * on MSYS2 might have "C:/mingw/. . . " patterns
- configure.ac: for --enable-ldflags-nut-rpath(-cxx)=auto consult DEFAULT_SEARCH_DIRS [#2782] Also report why selection failed or had other comments
- configure.ac: make use of hardcode_libdir_flag_spec(_CXX) vars from LT_INIT to set default LDFLAGS_NUT_RPATH(_CXX) [#2782]
- configure.ac, lib/libnutclient.pc.in, lib/libnutconf.pc.in: separate LDFLAGS_NUT_RPATH_CXX from LDFLAGS_NUT_RPATH [#2782]
- lib/libupsclient-config.in: update license (GPLv2 and newer)
- lib/libupsclient-config.in: also provide optional @LDFLAGS_NUT_RPATH@ [#2782]
- configure.ac, lib/libnutclient.pc.in, lib/libnutclientstub.pc.in, lib/libnutconf.pc.in, lib/libnutscan.pc.in, lib/libupsclient.pc.in: configure.ac, lib/*.in: introduce @LDFLAGS_NUT_RPATH@ to only set rpath when needed and in a way supported by linker [#2782] TODO (later commit): Detect support/format of the linker option if passed
- drivers/mge-hid.c: fix whitespace [#2850]

2.2 2025-03-26 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut-names.txt, drivers/mge-hid.c, data/cmdvartab: revert "experimental.ecomode.start.auto" [#2708, #2850]

2.3 2025-03-26 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: comment about 9E stuck in ECO
- data/cmdvartab, docs/nut-names.txt, drivers/mge-hid.c: experimental.ecomode.stop.auto function added
- data/cmdvartab, docs/nut-names.txt, drivers/mge-hid.c: autoecomode addon without last function needed for 9E model but then stuck in ecomode

2.4 2025-03-25 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: extend autotools-based checks to parallelize with "make -j 4"

2.5 2025-03-24 RikyPlaza <rikyrod2001@gmail.com>

- drivers/phoenixcontact_modbus.c: Fixed low battery register reading for TRIO_2G UPS

2.6 2025-03-24 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut-names.txt: fix outlet.n.protect.status and input.eco.switchable definitions to "opaque string" [#2708]
- data/cmdvartab, drivers/mge-hid.c, drivers/usbhid-ups.c, docs/nut-names.txt: move "ecomode" and "essmode" INSTCMDs into "experimental." namespace [#2708]
- drivers/mge-hid.c: bump © for recent committers
- drivers/usbhid-ups.c: anticipate NULL hidups_item→dfl for commands that require a caller-provided argument (no defaults), or return STAT_INSTCMD_CONVERSION_FAILED
- NEWS.adoc, server/upsd.c, server/upsd.h: server/upsd.{c,h}: handle TRACKING value for STAT_CONVERSION_FAILED [#2184]
- docs/man/upscli_strerror.txt: do not link to self
- drivers/dstate.c: sock_arg(): if INSTCMD returns STAT_INSTCMD_UNKNOWN, let it be known to the TRACKING clients [#656, #2686]

2.7 2025-03-23 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, UPGRADING.adoc, docs/man/Makefile.am, docs/man/index.txt, docs/man/upscli_str_add_unique_token.txt, docs/man/upscli_str_contains_token.txt, docs/man/upsclient.txt, docs/nut.dict: docs/man/* et al: document upscli_str_contains_token() and upscli_str_add_unique_token() [#2852, #2859]
- clients/Makefile.am, clients/upsclient.c, clients/upsclient.h, include/common.h: clients/Makefile.am, clients/upsclient.h, include/common.h: re-expose str_add_unique_token() and str_contains_token() with upscli_ prefix to surely avoid link/include conflicts
- clients/Makefile.am, clients/upsclient.h, include/common.h: expose str_add_unique_token() and str_contains_token() for NUT clients who need to parse ups.status

2.8 2025-03-23 Jim Klimov <jim@jimklimov.com>

- scripts/python/app/NUT-Monitor: clarify which implementation gets started in the end [#2845]
- configure.ac: adjust to different builds of Python in subdirs on Solarish platforms [#2845]
- scripts/python/app/NUT-Monitor-py3qt5.in, scripts/python/app/ui/gui-1.3.glade: update translators list with Russian [#2845]
- UPGRADING.adoc, scripts/python/Makefile.am, scripts/python/app/README.adoc, scripts/python/app/locale/fr/fr_FR.UTF-8.po, scripts/python/app/locale/fr_FR.UTF-8, scripts/python/app/locale/it/it_IT.UTF-8.po, scripts/python/app/locale/it_IT.UTF-8, scripts/python/app/locale/ru/ru_RU.UTF-8.po, scripts/python/app/locale/ru_RU.UTF-8: scripts/python/Makefile.am: deliver app/locale symlinks with "xx_XX.UTF-8" naming [#2845] For NUT-Monitor GUI: on some platforms, glib/gtk2 or qt5 require the full stack of names to be addressable this way; on others it is more relaxed.

2.9 2025-03-21 RikyPlaza <rikyrod2001@gmail.com>

- drivers/phoenixcontact_modbus.c: drivers/phoenixcontact.c: sanity check and fix on mrir mistake

2.10 2025-03-21 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/apc_modbus.c, drivers/mge-hid.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_voltronic.c, drivers/usbhid-ups.c: drivers/{apc_mod ups,mge-hid,nutdrv_qx,nutdrv_qx_voltronic}.c: convert to buzzmode*() instead of invmode*() [#2708]
- clients/upsmon.c: pollups(), parse_status(), get_var(): consider "(experimental.)ups.mode.buzzwords" instead of "output.inverter.mode for "vendor:VENDORNAME:MODENAME" containing ECO equivalents [#2708]
- docs/new-drivers.txt, docs/nut.dict, drivers/dstate.c, drivers/dstate.h: drivers/dstate.{c,h}, docs/new-drivers.txt: rename invmode_* methods and data to buzzmode_* [#2708] ... and report `experimental.ups.mode.buzzwords` instead of `output.inverter.mode` in dstate
- docs/nut-names.txt: replace `output.inverter.mode` by `ups.mode` and `experimental.ups.mode.buzzwords` [#2708]

2.11 2025-03-20 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, lib/libnutclient.pc.in, lib/libnutclientstub.pc.in, lib/libnutconf.pc.in, lib/libnutscan.pc.in, lib/libupsclient.pc.in: lib/*.pc.in propagate RPATH to NUT library installation location (by default not in system prefix) to help third-party clients link with us [#2782]
- Makefile.am: introduce "make spellcheck-interactive-quick" ability
- Makefile.am: maintainer-asciidocs: suggest to spellcheck before committing updated asciidoc macros
- INSTALL.nut.adoc, README.adoc, docs/nut.dict: Update NUT documentation sources with current docs/asciidoc-vars.conf: a6bd83d48 (2025-03-20)
- docs/asciidoc-vars.conf: document that linkdoc may have further args
- Makefile.am: maintainer-asciidocs: really fix handling of lines ending in backslash
- docs/user-manual.txt: highlight that NUT for Windows only ships same clients as POSIX builds
- .gitignore: GitIgnore **.adoc-parsed.** (e.g. docs/.ChangeLog.adoc-parsed.latest)
- docs/Makefile.am: spellcheck-interactive: update/fix non-reporting of dict changes (when there were none)
- Makefile.am: spellcheck-interactive: require SPELLCHECK_REPORT_MAYBE_UPDATED_DICT=yes only for the last entry, to reduce noise by default
- docs/Makefile.am: spellcheck*: track $(NUT_SPELL_DICT).bak-pre-interactive separately from $(NUT_SPELL_DICT).bak-pre-sorting
- docs/Makefile.am: spellcheck-interactive: do not report "Custom dictionary ... may have been updated" all the time, add a way to quiesce that (and check if it actually changed)
- NEWS.adoc: fix announcement of `scripts/external_apis` - they landed into trunk before 2.8.3 release [#2807, #2813]
- lib/libnutconf.pc.in, lib/libnutscan.pc.in: add sysconfdir/statepath/nutuser as in other *.pc.in templates

2.12 2025-03-19 Jim Klimov <jimklimov+nut@gmail.com>

- docs/FAQ.txt, docs/nut.dict: document downgrading OpenSSL capabilities when required [#1899, #1900] Closes: #1900
- server/upsd.c, NEWS.adoc: failure due to getaddrinfo() now reports the disliked host name [#2665] Closes: #2665

2.13 2025-03-17 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: support building from *.adoc (not only *.txt) origins
- docs/Makefile.am: depend .prep-src-docs on Makefile too [#2825]
- docs/user-manual.txt: formulate a NUT Support Policy (same as in /README.adoc)
- README.adoc: formulate a NUT Support Policy
- docs/user-manual.txt: import text from README.adoc about support for older systems
- docs/nut.dict, docs/user-manual.txt: docs/user-manual.txt: update about Windows and third-party distributions

2.14 2025-03-16 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx_voltronic.c: invmode_set() voltronic eco and eco_adv states [#2708]
- drivers/nutdrv_qx.c: upsdrv_updateinfo(): add invmode_init/commit() into the loop [#2708]
- drivers/mge-hid.c: convert to use invmode_set() [#2708]
- drivers/usbhid-ups.c: upsdrv_updateinfo(): add invmode_init/commit() into the loop [#2708]
- clients/upsmon.c, common/nutconf.cpp, common/nutwriter.cpp: comment about ECO/NOTECO use for notifications even if not via ups.status [#2708]
- docs/man/nut.exe.txt: fix markup
- docs/man/Makefile.am: include index.html to DIST_ALL_HTML_PAGES [#2825]
- docs/man/Makefile.am: introduce dist-html:DIST_ALL_HTML_PAGES and dist-man:DIST_ALL_MAN_PAGES goals [#2842]
- docs/man/Makefile.am: populate DIST_ALL_HTML_PAGES [#2842]
- docs/man/Makefile.am: revise DIST_ALL_PAGES into DIST_ALL_MAN_PAGES; differentiate from DIST_ALL_HTML_PAGES [#2842]
- ci_build.sh: typo fix

2.15 2025-03-15 Jim Klimov <jimklimov@gmail.com>

- docs/man/Makefile.am: consider index.html part of HTML_MANS [#2825]
- docs/man/Makefile.am: .prep-src-docs: depend also on Makefile [#2825]

2.16 2025-03-15 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/index.txt: reference nut.exe and NUT-Monitor tools pages added since NUT v2.8.2 release
- docs/nut.dict: cover docs/man/index.txt spelling [#2825]
- configure.ac: double-check if we care about DOC_CANNOTBUILD_LIST contents for particular document types [#2842]
- docs/man/Makefile.am: avoid building mans even if HAVE_ASCIIDOC but KNOWN_UNABLE_MANS [#2842]
- docs/man/Makefile.am: do not default to ALL_TGT\+=all-man if KNOWN_UNABLE_MANS [#2842]
- configure.ac: track and report have_disted_doc_man=yes-placeholder (for distcheck-ci sub-builds) [#2842]
- docs/man/Makefile.am: do not default to FAKE_PAGES_BUMP_SRC also if DOC_INSTALL_DISTED_MANS [#2842]

- docs/man/Makefile.am: do not default to FAKE_PAGES_BUMP_SRC if KNOWN_UNABLE_MANS [#2842]
- Makefile.am: introduce distcheck-light-DIST_ALL_PAGES to simplify recipes that tolerate placeholders for pre-built man pages [#2842]
- Makefile.am: distcheck-fake-man: be sure to pass through caller's DISTCHECK_FLAGS (if any) [#2842]
- configure.ac: maintain DOC_CANNOTBUILD_LIST as we go, based on performed test results [#2843]
- configure.ac: report ultimate DOC_BUILD_LIST/DOC_CANNOTBUILD_LIST/DOC_SKIPBUILD_LIST [#2843]
- configure.ac: track KNOWN_UNABLE_MANS more intensively [#2842]
- configure.ac: clarify that subsequent "build specific documentation" NUT_REPORT_FEATURE is about the ability (aligned with caller request) [#2842]
- Makefile.am, docs/Makefile.am, docs/man/Makefile.am: move docs/man to SUBDIRS of main Makefile; avoid two definitions of "all" goal there [#2842, #2825]
- configure.ac: clarify that initial "build and install documentation" NUT_REPORT_FEATURE is about the caller request (may be auto, etc.) [#2842]
- NEWS.adoc, UPGRADING.adoc: document "make distcheck-ci" and "distcheck-fake-man" [#2842]
- Makefile.am: introduce dist-ci and dist-fake-man goals for good measure [#2842]
- configure.ac, Makefile.am: track if this env is KNOWN_UNABLE_MANS [#2842]
- docs/man/Makefile.am: add index.txt to SRC_ALL_PAGES Fix generation of index.html which on published nut-website was > Last updated 2023-09-14 14:43:49 UTC — Network UPS Tools 2.8.0.1
- docs/man/Makefile.am: add index.txt to SRC_ALL_PAGES Fix generation of index.html which on published nut-website was > Last updated 2023-09-14 14:43:49 UTC — Network UPS Tools 2.8.0.1

2.17 2025-03-14 RikyPlaza <rikyrod2001@gmail.com>

- drivers/phoenixcontact_modbus.c: removed battery.charge for TRIO UPS since not available.
- drivers/phoenixcontact_modbus.c: fixed connection method
- drivers/phoenixcontact_modbus.c: new partnumber calculation method
- drivers/phoenixcontact_modbus.c: drivers/phoenixcontact_modus.c: corrections
- drivers/phoenixcontact_modbus.c: corrections
- drivers/phoenixcontact_modbus.c: updated version
- drivers/phoenixcontact_modbus.c: Updated alarms with supplier info.
- drivers/phoenixcontact_modbus.c: Update addresses with supplier information.

2.18 2025-03-13 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut-versioning.adoc: document some consumers of data derived from gitlog2version.sh script [#1949]
- docs/nut-versioning.adoc: mention NUT versioning with even/odd minors until 2.6, per README.adoc [#1949]
- README.adoc: revise older approach to NUT versioning (as obsolete) and refer to docs/nut-versioning.adoc [#1949]
- docs/nut-versioning.adoc: document the nut_version.h macros derived from gitlog2version.sh script [#1949]
- docs/nut-versioning.adoc, docs/nut.dict: document the configure.ac variables derived from gitlog2version.sh script [#1949]

- docs/nut-versioning.adoc, docs/nut.dict: document the gitlog2version.sh script and its variables [#1949]
- docs/developers.txt: refer to nut-versioning with three-arg form of linkdoc() [#1949]
- docs/nut-versioning.adoc, docs/Makefile.am, docs/developer-guide.txt, docs/maintainer-guide.txt, docs/nut.dict, NEWS.adoc, UPGRADING.adoc, tools/gitlog2version.sh: document historic and current approaches to NUT versioning [#2842, #1949]
- tools/gitlog2version.sh: report NUT_VERSION_QUERY=TRUNK [#1949]
- tools/gitlog2version.sh, configure.ac: fix SEMVER generation to more closely follow the standard [#2842, #1949] There should not be two dash-separated components, this confuses some packaging tools. Inspired by discussion in https://github.com/-networkupstools/nut/pull/2842#issuecomment-2719241404
- scripts/python/app/README.adoc: note localization of standard UI elements made by the framework itself
- scripts/python/app/locale/NUT-Monitor.pot, scripts/python/app/locale/fr/fr.po, scripts/python/app/locale/it/it.po, scripts/python/app/locale/ru/ru.po, scripts/python/app/ui/gui-1.3.glade, scripts/python/app/ui/gui-1.3.glade.h: scripts/python/app/{ui,locale}/*: maintain plaintext (py2gtk2) and HTML (py3qt5) translations of About dialog text
- scripts/python/app/NUT-Monitor-py2gtk2.in, scripts/python/app/README.adoc: scripts/python/app/NUT-Monitor-py2gtk2.in: TRY TO fix UTF-8 resource reading in Windows
- scripts/python/app/README.adoc, docs/nut.dict: note environments to test both py2 and py3 versions
- scripts/python/app/NUT-Monitor-py2gtk2.in: fix rewriting of About dialog text
- scripts/python/app/NUT-Monitor-py2gtk2.in: fix list copy syntax for Python2
- scripts/python/app/NUT-Monitor-py2gtk2.in: change to script dir, to find localization files reliably
- scripts/python/app/NUT-Monitor-py3qt5.in: change to script dir, to find localization files reliably

2.19 2025-03-12 Scott Shambarger <devel@shambarger.net>

- m4/nut_check_python.m4: use sysconfig to find site-packages python3.2\+ supports sysconfig module to locate the site-packages. Patch to use it if it's available. Also, minor fix for --without-python still running python.

2.20 2025-03-12 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/app/README.adoc: clarify what was wrong with localization of Py3 variant
- NEWS.adoc, scripts/python/app/NUT-Monitor, scripts/python/app/README.adoc: Revert "scripts/python/app/*, NEWS.adoc: NUT-Monitor-py3qt5 localization issues are resolved, prefer it if both implementations are available" This reverts commit 64d82b5de2878d539c1b0fca78ae0e7d88760523 : stash for future completion. Currently there are still problems with menu names, dialog field labels, etc.
- NEWS.adoc, scripts/python/app/NUT-Monitor, scripts/python/app/README.adoc: scripts/python/app/*, NEWS.adoc: NUT-Monitor-py3qt5 localization issues are resolved, prefer it if both implementations are available
- NEWS.adoc, scripts/python/app/NUT-Monitor-py2gtk2.in, scripts/python/app/NUT-Monitor-py3qt5.in, scripts/python/app/README scripts/python/app/locale/NUT-Monitor.pot, scripts/python/app/locale/fr/fr.po, scripts/python/app/locale/it/it.po, scripts/python/app/locale/ru/ru.po, scripts/python/app/ui/aboutdialog1.ui, scripts/python/app/ui/gui-1.3.glade, scripts/python/app/ui/gui-1.3.glade.h: scripts/python/app/**, NEWS.adoc: bump NUT-Monitor-py** releases to 2.0.2
- docs/man/Makefile.am: be sure to use builddir/doc/man in LIST_FILES/FAKE_FILES/FAKE_FILES_RM/distcheck-light-DIST_ALL_PAGES snippets [#2842]
- Makefile.am: be sure to use builddir/doc/man in distcheck-* variant setups [#2842]
- scripts/python/app/NUT-Monitor-py3qt5.in: troubleshoot the localization data path of About dialog

- scripts/python/app/locale/NUT-Monitor.pot, scripts/python/app/locale/fr/fr.po, scripts/python/app/locale/it/it.po, scripts/python/app/locale/ru/ru.po, scripts/python/app/ui/aboutdialog1.ui, scripts/python/app/ui/gui-1.3.glade, scripts/python/app/ui/gui-1.3.glade.h: scripts/python/app/{ui,locale}/*: adjust localization of About dialog with HTML Markup of aboutdialog1.ui file [#722]
- scripts/python/app/NUT-Monitor-py2gtk2.in, scripts/python/app/NUT-Monitor-py3qt5.in: scripts/python/app/NUT-Monitor-{py2gtk2,py3qt5}.in: gui_about_dialog(): substitute NUT_WEBSITE_BASE and PACKAGE_VERSION in real time [#722]
- scripts/python/app/NUT-Monitor-py3qt5.in: whitespace fixes
- docs/man/Makefile.am: all (automake): mention .prep-src-docs among BUILT_SOURCES so it is made early [#2825, #2842]
- docs/man/Makefile.am: all: comment its overriding place in decision chain [#2825, #2842]
- docs/man/Makefile.am: all: tell more about when we do nothing [#2825, #2842]
- docs/man/Makefile.am: do not list DIST_ALL_PAGES into BUILT_SOURCES, this may cause generation before we are well ready for it; EXTRA_DIST should suffice for our issue #2842
- Makefile.am: distcheck-*: report starting the scenario, and a successful finish with overview of what it was [#2842]
- Jenkinsfile-dynamatrix: "make distcheck-ci" in plain autotools checks [#2842]
- ci_build.sh: introduce DISTCHECK_TGT to guess the best variant for this build agent and BUILD_TYPE (or use the caller-provided value) [#2842]
- Makefile.am: introduce distcheck-fake-man and distcheck-ci goals [#2842]
- docs/man/Makefile.am: rectify "make clean" where we use placeholders [#2842]
- docs/man/Makefile.am: fix DIST_ALL_PAGES for serial drivers [#2842]
- docs/man/Makefile.am: check for prebuilt man pages in source dir too [#2842] Concerns fake placeholder files for `make distcheck-light` too.
- drivers/ecoflow-hid.c: update comments about some readings which behave differently in various tested devices [#2837]

2.21 2025-03-11 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/Makefile.am: Only clean away build products, and track them as BUILT_SOURCES, if we can reproduce them [#2842]
- drivers/ecoflow-hid.c: fix battery.runtime - needs ecoflow_runtime_conversion_lkp
- docs/man/Makefile.am: update comment regarding dist-warning
- Makefile.am, docs/man/Makefile.am: fix "make distcheck-light" to pass on systems without asciidoc (use distcheck-light-DIST_ALL_PAGES to fake pre-built man pages) [#2842]
- configure.ac: NUT_REPORT the DOC_INSTALL_DISTED_MANS value [#2842]
- docs/man/Makefile.am: do not fail a "make dist" attempt just because !WITH_MANS !SKIP_MANS, only warn about it [#2842] We may have the pages from tarball, or actually know about the tools needed to build them.
- docs/Makefile.am, docs/man/Makefile.am: parameterize NUT_*_BASE and *_VERSION substitutable from templates [#722]
- docs/man/Makefile.am: redefine construction of man page lists to track ALL those we know about (for dist) vs. those we want in this build configuration [#2842, #2829]
- docs/man/Makefile.am: fix nhs_ser.txt inclusion into SRC_SERIAL_PAGES (sources - always)
- docs/man/Makefile.am: fix LIBNUTCLIENT_*_DEPS markup
- docs/man/Makefile.am: introduce helper recipes to print-X and check-list-X (where X in [MAN_MANS, HTML_MANS, SRC_ALL_PAGES])

- docs/man/Makefile.am: line-wrap SRC_TOOL_PAGES/MAN_TOOL_PAGES/HTML_TOOL_MANS definitions [#2842]
- docs/man/Makefile.am: group manXXXdir and manXXX_DATA pre-definitions on top of file [#2842]
- docs/man/Makefile.am: Make sure pages are built for the dist archive [#2842]
- tools/nut-scanner/Makefile.am: note that "make dist" can cause libupsclient.la compilation [#2842]
- include/Makefile.am, clients/Makefile.am: announce GENERATE-HEADER events to help recipe tracing [#2842]

2.22 2025-03-10 Jim Klimov <jimklimov+nut@gmail.com>

- .../python/app/locale/fr/LC_MESSAGES/NUT-Monitor.mo, .../python/app/locale/it/LC_MESSAGES/NUT-Monitor.mo, .../python Monitor.mo: scripts/python/app/locale/{fr,it,ru}/LC_MESSAGES/NUT-Monitor.mo: regenerate due to changes in translation sources [#722] Note that we keep verbatim @NUT PACKAGE_VERSION@ and @NUT_WEBSITE_BASE@ in text (About dialog) and substitute them in real-time. This allows us to keep the document wording static, while certain strings depend on build circumstances. Unlike other resources, this dialog is shared with py2 code which is not localized in same manner as sequences).
- docs/config-prereqs.txt, docs/nut.dict: suggest MacOS tuning for being a CI agent
- drivers/mge-hid.c, NEWS.adoc: support Eaton 5S1200AU [#2380]
- docs/man/Makefile.am: roll back changes about *.txt-prepped [#2842]
- docs/nut.dict: update for index.txt contents [#2842]

2.23 2025-03-09 Scott Shambarger <devel@shambarger.net>

- docs/man/Makefile.am, scripts/external_apis/Makefile.am: docs/Makefile.am: fixed make dist, fix custom man sections `make dist` was failing to build all man pages. Changed how the *-prepped file dependencies are handled to fix. Custom man sections were being implemented in configure, but automake runs before they are chosen, so the Makefile.in were missing the install logic. Changed to use _DATA targets with directories that can be chosen at configure time Also added index.txt to DIST target to fix distcheck Fixed substitution bug in external_apis/Makefile.am

2.24 2025-03-09 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/app/NUT-Monitor-py3qt5.in, scripts/python/app/locale/NUT-Monitor.pot, scripts/python/app/locale/fr/fr.po, scripts/python/app/locale/it/it.po, scripts/python/app/locale/ru/ru.po, scripts/python/app/ui/aboutdialog1.ui, scripts/python/app/ui/gui-1.3.glade, scripts/python/app/ui/gui-1.3.glade.h: scripts/python/app/{ui,locale}/*: revise About dialog and license info [#722] * refer to @NUT_WEBSITE_BASE@ and @PACKAGE_VERSION@; * add NUT Community copyright; * fix phrasing and markup; * aboutdialog1.ui: render NUT_WEBSITE_BASE as a clickable link * update link to lestat original page (now it is a wiki)
- tools/nut-usbinfo.pl: find_usbdevs(): skip subdirs for now
- data/driver.list.in: fix the entry for DEXP LCD EURO 1200VA [#2839]
- Floating-point numbers are dot-separated * Add the comment with a link to PR for details
- NEWS.adoc, UPGRADING.adoc, docs/nut.dict: announce the fix for DEXP and novendir in nutdrv_qx [#2839]
- tests/generic_gpio_liblocal.c: protect against builds with unknown WITH_LIBGPIO_VERSION [#2833]
- tests/Makefile.am: fix builds of gpiotest against different libgpiod implementations [#2833]
- drivers/generic_gpio_libgpiod.c, drivers/generic_gpio_libgpiod.h, tests/generic_gpio_liblocal.c, tests/generic_gpio_utest.c: Merge remote-tracking branch *modrisb-gpiod2/master* into *issue-2833\+modrisb* Take advantage of WITH_LIBGPIO_VERSION defined by NUT configure.ac to select the code path and signal it in DRIVER_VERSION for troubleshooting.
- drivers/generic_gpio_libgpiod.c: protect against builds with unknown WITH_LIBGPIO_VERSION [#2833]
- m4/nut_check_libgpiod.m4, drivers/generic_gpio_libgpiod.c: report the WITH_LIBGPIO_VERSION_STR a driver was built against [#2833]

2.25 2025-03-08 mcrodar <mcrodar@gmail.com>

- data/driver.list.in, drivers/nutdrv_qx.c: use novendor param as flag for don't read vendro name, need for dexp ups

2.26 2025-03-08 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/apc_modbus.c: use invmode_{init,get,set,commit}() methods for ECO state [#2708]
- drivers/usbhid-ups.c: comment ECO and ESS status handling as obsolete [#2708]
- docs/new-drivers.txt, docs/nut.dict, drivers/dstate.c, drivers/dstate.h: drivers/dstate.{c,h}, docs/new-drivers.txt, docs/nut.dict: introduce invmode_{init,get,set,commit}() methods [#2708]
- data/driver.list.in: list Gtec ZP120N as supported with updated nutdrv_qx [#2818, #2834]
- drivers/ecoflow-hid.c: complete the merge of parallel developments [#2740, #2837] * import back comments about findings in PR #2740,
- apply reasonable number precision and HU_FLAG* where two codebases differed, * clean up "unmapped.**" entries that are actually exposed as standard or experimental data points, or in some cases drop the "experimental.**" ones (it is easy to build code with settings which would show the same values as "unmapped.*")

2.27 2025-03-07 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/ecoflow-hid.c: merge "unmapped" entries and comments from ykuksenko variant [#2837]
- drivers/ecoflow-hid.c: uncomment "unmapped" entries already hidden by "#if WITH_UNMAPPED_DATA_POINTS" [#2837]
- drivers/ecoflow-hid.c: change ECOFLOW_HID_VERSION to double digits; add © of contributors [issue #2735, PRs #2740, #2837]
- NEWS.adoc, docs/nut.dict, data/driver.list.in: Ecoflow device support added [issue #2735, PRs #2740, #2837]
- drivers/usbhid-ups.c: bump DRIVER_VERSION due to EcoFlow support [issue #2735, PRs #2740, #2837]

2.28 2025-03-06 M. Greyson Christoforo <grey@christoforo.net>

- drivers/ecoflow-hid.c: fix voltage type
- drivers/ecoflow-hid.c, ecoflow-hid.h ⇒ drivers/ecoflow-hid.h, ecoflow-hid.c: mapping attempted
- drivers/Makefile.am, drivers/usbhid-ups.c, ecoflow-hid.c, ecoflow-hid.h: i followed the gen-usbhid-subdriver.sh recipe. needs mapping

2.29 2025-03-06 Jim Klimov <jimklimov+nut@gmail.com>

- clients/status.h: note that "ECO" in "ups.status" should no longer happen with in-tree code [#2708]
- clients/upsmon.c: pollups(), parse_status(), parse_status(), get_var(): consider "output.inverter.mode" for "vendor:VENDORNAME:M containing ECO equivalents [#2708]
- clients/upsmon.c: get_var(): only strcmp() for further tokens if none before matched Avoid extra work in the loop

2.30 2025-03-05 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/nut.dict: introduce WITH_LIBGPIO_VERSION [#2833] Should also serve for actual fix of the drivers for new libgpio API, but not sure if that would land in NUT v2.8.3 timeframe or after the release.
- configure.ac, m4/nut_check_libgpiod.m4: introduce detection and exposure to C code of WITH_LIBGPIO_VERSION [#2833]

2.31 2025-03-04 Lukáš Turek <lukas@turek.eu>

- drivers/nutdrv_qx_gtec.c: multiple status letters can be reported at once

2.32 2025-03-03 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut-names.txt, docs/nut.dict: docs/nut-names.txt: propose and describe names for `output.inverter.mode{,.descript` and `output.inverter.latency` [#2708]
- docs/nut-names.txt: clarify "device.usb.version" description
- docs/nut-names.txt: fix NOTE block for `battery.charger.status` [#2708]
- include/common.h, common/common.c, drivers/dstate.c: generalize status_set() into str_add_unique_token() with a custom callback, and status_get() into str_contains_token() [#2708]
- tests/driver_methods_utest.c: check that ignorelb works (now via callback from status_set()) [#2708]
- tools/nutconf/nutconf-cli.cpp: avoid "NULL" keyword in C+\+ code
- tools/nutconf/nutconf-cli.cpp: teach the tool some respect to NUT_CONFPATH; update a few comments
- UPGRADING.adoc: document `--with-dev-libnutconf` option and its impact on packaging [#2828]

2.33 2025-03-02 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac, docs/configure.txt: change interaction of --with-all and --with-dev-libnutconf The original independence of settings led to CI failures, where explicit `--with-nutconf=auto --with-all=yes` correctly turned `with_nutconf` to `no` on systems or build scenarios without the required level of C+\+ support, but the defaulted `with_dev_libnutconf` became `yes` (following `with_all`).
- docs/configure.txt: --with-dev-libnutconf: update the description
- docs/configure.txt: --with-dev: clarify the effect of --without-dev
- docs/configure.txt: --with-dev-libnutconf: clarify use of "auto" value
- docs/configure.txt: add intro chapter about autotools and typical syntax of configure options

2.34 2025-03-01 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/build-mingw-nut.sh: when the proto area installation completes, report SUCCESS more visibly
- common/setenv.c: update closing comment
- common/Makefile.am: avoid @LTLIBOBJS@ in libnutconf_la_LIBADD because we already use it in libcommonclient.la
- ci_build.sh: add alias for "windows" build
- common/Makefile.am, configure.ac, docs/configure.txt, docs/nut.dict, include/Makefile.am, lib/Makefile.am, tests/Makefile.am: configure.ac, */Makefile.am: introduce WITH_DEV_LIBNUTCONF (to deliver lib\+headers) and WITH_LIBNUTCONF (at least one of tool or lib)
- common/Makefile.am: add libnutconf_la version-info declaration (0.1.0 experimental) to generate the shared object file
- common/Makefile.am: EXTRA_DIST *.cpp sources if not depending on rolling them into a library
- drivers/Makefile.am: "if SOME_DRIVERS": fix the obsolete extraneous addition of "skel"
- Makefile.am, clients/Makefile.am, docs/Makefile.am, drivers/Makefile.am, server/Makefile.am: */Makefile.am: annotate automake else/endif with respective condition names

- ci_build.sh: typo fixes
- docs/configure.txt: document --with-nut-scanner and --with-nutconf options
- NEWS.adoc, docs/nut.dict: announce automake optimization for NUT `make -j` [#2825]
- drivers/Makefile.am: reword default NUTSW_DRIVERLIST_DUMMY_UPS to avoid automake rewrites and actually not-conflict building dummy-ups twice
- Makefile.am: all/drivers: avoid passing empty KEY= via SUBDIR_TGT_MAKEFLAGS

2.35 2025-02-28 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am: revise comments for all-drivers definition
- Makefile.am, clients/Makefile.am: clients/Makefile.am: include libupsclient-version.h into all-libs-local deliverables Dependency on it from some consumers might cause unwanted parallel builds of same directory.
- scripts/Windows/Makefile.am: code here does not directly consume nut_version.h
- Makefile.am, include/Makefile.am: include/Makefile.am: formally declare "all-libs-local: nut_version.h" for consistency
- Makefile.am: ensure prep-src-docs/docs are built before main all/docs rule (just in case)
- Makefile.am: define prep-src-docs/docs/man and prep-src-docs/docs more neatly
- Makefile.am: update comments for SUBDIR_* dependencies, to clarify who depends on whom (as of now)
- Makefile.am: SUBDIRS_ALL_RECURSIVE: re-order all/docs (with heavy pdf/html renders) to start before all/docs/man (easier parallelization with cheap artifacts)
- docs/Makefile.am: order ChangeLog.{html,pdf} first, so in parallel builds it can have one core while the rest of docs take turns on another
- scripts/external_apis/Makefile.am: revise "make clean" to not break subsequent "make all"
- docs/Makefile.am: revise "make clean" to not break subsequent "make all"
- Makefile.am, docs/Makefile.am, docs/man/Makefile.am: formalize definition and use of prep-src-docs targets
- Makefile.am: reorder SUBDIRS_ALL_RECURSIVE so docs are in the end, after binary products (like in SUBDIRS) Some make implementations troll us, with sub-makes running their goals apparently in parallel, but the top-level goals (or rather dependencies of a goal?) like the ones we list here happen to be handled largely sequentially. On such underwhelming "make"'s, we prefer to get programs built first. On better ones (e.g. recent GNU make versions) we do actually get unrestrained parallelism.
- Makefile.am, drivers/Makefile.am: introduce NUTSW_DRIVERLIST_DUMMY_UPS and SUBDIR_TGT_MAKEFLAGS to let "all/drivers" be built independently of (and not including) dummy-ups, so the new "all-drivers" target can parallelize the two sets of goals

2.36 2025-02-27 Jim Klimov <jimklimov@gmail.com>

- docs/Makefile.am, docs/man/Makefile.am: fix "find ... -newer" tests Barring errors (like files not found), `find` always exits with 0; it is the stdout that we should check (like we do everywhere else)
- docs/man/Makefile.am: .prep-src-docs: avoid overlapping runs from docs/Makefile.am

2.37 2025-02-27 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: .adoc.adoc-parsed: double-check if target already exists and is new enough; report more with MAINTAINER_ASCIIDOCS_CHANGELOG_DEBUG=yes
- Makefile.am: Makefile: dummy-ups should depend on all-libs-local/drivers too
- Makefile.am: depend both all/docs and all/docs/man on .prep-src-docs/docs/man to complete first
- docs/man/Makefile.am: introduce configurable MAINTAINER_DOCS_PREP_MAN_DELAY for docs/man/.prep-src-docs
- docs/Makefile.am: avoid `find` reporting that file does not exist
- Makefile.am: all/docs: log-trace pre-creation of ChangeLog artifacts (if we do it)
- Makefile.am: forfeit SUBDIR_TGT_RULE-driven pre-make of ChangeLog.adoc in . or abs_top_builddir Some make implementations mangle the build argument of that form, and we try to change into an absurd subdir.
- Makefile.am: all/docs: make MAINTAINER_ASCIIDOCS_CHANGELOG_DELAY configurable
- Makefile.am: all/docs: pre-create ChangeLog.adoc-parsed as a singular target before iterating into multiple DOC_BUILD_LIST goals; use MAINTAINER_ASCIIDOCS_CHANGELOG_DELAY to reduce or eliminate the wait
- docs/Makefile.am: ChangeLog.adoc: make MAINTAINER_ASCIIDOCS_CHANGELOG_DELAY configurable (or skippable); log-trace it better when sleeping on it
- Makefile.am: fix recipe for dummy-ups/drivers to honour EXEEXT
- Makefile.am: document circumstances of dummy-ups/drivers target
- docs/Makefile.am: ChangeLog.adoc: revise loop waiting for competition Avoid `expr` returning code 1 because resulting number was 0 (on some platforms)
- docs/Makefile.am: fix re-runs of DOC-HTML-CHUNKED with some "make" implementations Also use TABs to report DOC-* waypoints
- docs/man/Makefile.am: add rules for NUT-Monitor-py2gtk2.html and NUT-Monitor-py3qt5.html
- docs/Makefile.am: ChangeLog.*: hide filesystem detail troubleshooting behind MAINTAINER_ASCIIDOCS_CHANGELOG_DEBU toggle
- Makefile.am: ChangeLog: do not update builddir/ChangeLog from srcdir/ChangeLog if already identical Also revise build log reporting of different use-cases
- Makefile.am: ChangeLog: keep original timestamp when Using distributed ChangeLog file from sources
- docs/Makefile.am: ChangeLog.adoc: revise reporting of (re-)generation
- docs/Makefile.am: .ChangeLog.adoc-parsed.latest: fix make syntax
- docs/Makefile.am: make sure to create a relevant .ChangeLog.adoc-parsed.latest as soon as possible
- Makefile.am: $(abs_top_builddir)/ChangeLog: fix log-tracing of cases where we do (re-)generate the original file from Git metadata

2.38 2025-02-26 Jim Klimov <jimklimov+nut@gmail.com>

- common/Makefile.am, configure.ac, include/Makefile.am, lib/.gitignore, lib/Makefile.am, lib/libnutconf.pc.in: PoC: Introduce delivery of libnutconf.pc and library itself * FIXME: Enable SO build, API version, etc. like in clients/Makefile.am and nut-scanner * Headers somewhere there too
- docs/Makefile.am: try to untangle ChangeLog dynamic vs. repeatable-static dependency

- lib/Makefile.am: Revert "lib/Makefile.am: be sure to EXTRA_DIST the template files" This reverts commit da2874be836fd1b81ff3afc - breaks "make distcheck" (somehow interferes with "make dist" done inside its _build/sub dir).
- common/Makefile.am: be quieter about $(builddir)/common.c re-runs, but report the first time it is done
- common/Makefile.am: remove symlink $(builddir)/common.c when we "make clean"
- common/Makefile.am: avoid re-symlinking $(builddir)/common.c from srcdir when !BUILDING_IN_TREE to avoid extra rebuilds of libs
- common/Makefile.am: it seems that the comments should not be indented in Make syntax
- tools/nut-scanner/Makefile.am: Make sure generated sources are there when needed
- Makefile.am: all-fanout-maybe: fix for shells without comma-separated case clause expansion
- Makefile.am: revise again the dependencies on all-libs* targets, even if transitive
- Makefile.am: add a dev-test target "all-fanout-staged"
- Makefile.am: put out SUBDIRS_* based dependencies to "all-recursive", not just "all" per se In automake, "all: all-recursive" seems to be always defined, so we must be a dependency of that, otherwise we ended up building BOTH the default "all-recursive" and the optimized parallel sub-make, so they wrote into same files and crashed.
- Makefile.am: revise dependencies for SUBDIRS_ALL_RECURSIVE to consider quicker SUBDIRS_ALL_LIBS_LOCAL
- Makefile.am: revise dependency for all/scripts/Windows to follow conditionals in scripts/Windows/Makefile.am (note HAVE_MINGW too)
- scripts/Windows/Makefile.am: streamline use of top_builddir based libcommon.la and nut_version.h
- Makefile.am: refine handling of SUBDIRS_ALL_LIBS_LOCAL
- Makefile.am, clients/Makefile.am, common/Makefile.am, drivers/Makefile.am, tests/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am: define a special target for all-libs-local to be (pre-)built
- Makefile.am: revise dependencies of SUBDIR_TGT targets
- Makefile.am: revise dependency of all-recursive/scripts: all/scripts/Windows (target-dependent)
- lib/Makefile.am: annotate automake "else" and "endif" tags
- lib/Makefile.am: be sure to EXTRA_DIST the template files
- Makefile.am, lib/Makefile.am: all/lib is only about metadata, not actual libs
- Makefile.am: nutconf depends on (lib)nut-scanner
- Makefile.am: SUBDIR_TGT_RULE: revise progress messages, report failures more visibly
- Makefile.am: re-introduce (commented away) re-make attempt of "doc" after "all"
- Makefile.am: redefine SUBDIRS list to handle docs after code builds On the one hand, code builds are well-parallelized, easy to avoid extra work when re-making, and are more useful in typical development cycles. The ChangeLog HTML/PDF generation is a time-consuming hog when enabled, and with automake's "all-recursive" implementation handling SUBDIRS only sequentially, it blocks the useful part of build for a long time when we e.g. `git commit` the code changes during development.
- Makefile.am: redefine "all" target to complete "common" dir first, then do "all-recursive" and no longer retry "doc" just-in-case
- docs/Makefile.am, docs/.gitignore: only check HTML and/or PDF renders once (for unmodified sources)
- docs/man/Makefile.am, docs/man/.gitignore: only check man page sources and renders once (for unmodified sources)
- configure.ac, NEWS.adoc: default --with-valgrind=no for now

- scripts/valgrind/.valgrind.supp.in: generalize suppression of "blocks are possibly lost in loss record" in malloc in printf (on OpenIndiana)
- scripts/valgrind/.valgrind.supp.in: "blocks are possibly lost in" printf() called from report_pass() on OpenIndiana [#2823] Example fault reports: 13:27:00 ==228221== 4,104 bytes in 1 blocks are possibly lost in loss record 1 of 1 13:27:00 ==228221== at 0x7FFF64A22: malloc (vg_replace_malloc.c:458) 13:27:00 ==228221== by 0x7FFDC5CAD: _findbuf (in /lib/amd64/libc.so.1) 13:27:00 ==228221== by 0x7FFDAEBDF: _ndoprnt (in /lib/amd64/libc.so.1) 13:27:00 ==228221== by 0x7FFDB112E: printf (in /lib/amd64/libc.so.1) 13:27:00 ==228221== by 0x408F8C: report_pass (in /tmp/jenkins-swarm/jenkins-nutci/nut_nut_PR-2823/tests/driver_methods_utest) 13:27:00 ==228221== by 0x408F55: report_0_means_pass (in /tmp/jenkins-swarm/jenkins-nutci/nut_nut_PR-2823/tests/driver_methods_utest) 13:27:00 ==228221== by 0x40875A: main (in /tmp/jenkins-swarm/jenkins-nutci/nut_nut_PR-2823/tests/driver_methods_utest)
- configure.ac, scripts/Makefile.am, scripts/valgrind/.gitignore, scripts/valgrind/{.valgrind.supp ⇒ .valgrind.supp.in}: scripts/-valgrind/.valgrind.supp: rename to .in template so it is easy to resolve in SCRIPTDIR for out-of-tree builds
- configure.ac, NEWS.adoc: default to --with-valgrind=auto [#2823]
- configure.ac: re-order --with-valgrind(=PROG) parameter handling to happen before testing if we can use that implementation (and want to at all)
- configure.ac: refactor test for usable valgrind with a custom program to succeed
- configure.ac: document a problem between some OI versions and Valgrind
- docs/config-prereqs.txt: recommend GDB to be installed on various platforms

2.39 2025-02-25 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nutdrv_qx.txt: document the Gtec subdriver/protocol support [#2818]
- drivers/nutdrv_qx_gtec.c: gtec_process_status(): fix setting of ups.alarm, comment about setting of ups.status (multi-token) [#2818]
- drivers/nutdrv_qx_gtec.c: mark gtec_process_status() as a static method [#2818]
- NEWS.adoc, docs/nut.dict: mention nutdrv_qx gtec subdriver was added [#2818]
- drivers/nutdrv_qx.c: bump DRIVER_VERSION due to added Gtec subdriver [#2818]
- tests/Makefile.am: "make all" should build all binaries used by possible "make check" later
- Makefile.am: install-as-root: retry with udevadm if did not do/succeed its systemd unit
- Makefile.am: un-indent the bulk of "install-as-root" implementation
- scripts/external_apis/enphase/enphase-monitor@.service.in: GPLv2 licensed [#2813]

2.40 2025-02-24 Scott Shambarger <devel@shambarger.net>

- scripts/external_apis/enphase/README.adoc, scripts/external_apis/enphase/enphase-monitor.in: scripts/external_apis/enphase/enpha monitor - GPLv2 licensed

2.41 2025-02-24 Lukáš Turek <lukas@turek.eu>

- drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_gtec.c, drivers/nutdrv_qx_gtec.h: Add nutdrv_qx driver for Gtec ZP120N

2.42 2025-02-24 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/libhid.c: HIDGetItemData(): debug-trace failures due to string_to_path() or FindObject_with_Path() [#2816]
- docs/man/NUT-Monitor.txt, NEWS.adoc, docs/man/Makefile.am: added man page (with aliases) for the `NUT-Monitor{,-py2gtk` Python UI client and its shell wrapper script
- docs/man/Makefile.am: EXTRA_DIST nut.exe.txt if not building it
- scripts/python/app/NUT-Monitor: make PREFER_PY2 configurable as an envvar
- scripts/systemd/nut-driver-enumerator-daemon-activator.path.in, scripts/systemd/nut-driver-enumerator-daemon-activator.service.in, scripts/systemd/nut-driver-enumerator-daemon.service.in, scripts/systemd/nut-driver-enumerator.path.in, scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver.target.in, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-logger.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in, scripts/systemd/nut-sleep.service, scripts/systemd/nut-systemd.preset, scripts/systemd/nut.target.in, scripts/systemd/nutshutdown.in: scripts/systemd/*: typo fix in © heading
- docs/nut.dict, scripts/external_apis/Makefile.am, scripts/external_apis/enphase/README.adoc, scripts/external_apis/enphase/enphase-monitor.in: scripts/external_apis/Makefile.am: enable spellcheck of scripts/external_apis/enphase/README.adoc, fix corresponding typos or update the dictionary [#2813]
- scripts/external_apis/enphase/README.adoc: update about tmpfs or not for the enphase data file [#2813]
- scripts/external_apis/enphase/enphase-monitor.in, .../enphase/enphase-monitor@.service.in: scripts/external_apis/enphase/enphase-monitor@.service.in, scripts/external_apis/enphase/enphase-monitor.in: parameterize config/state file locations to defaults with NUT configuration and locations made by package or make-install [#2813]
- .../enphase/enphase-monitor@.service.in: scripts/external_apis/enphase/enphase-monitor@.service.in: add © header, parameterize installed script location and NUT run-time user [#2813]
- NEWS.adoc, configure.ac, docs/configure.txt, docs/nut.dict, scripts/external_apis/Makefile.am: introduce `configure --enable-` installation [#2813]
- configure.ac, scripts/external_apis/Makefile.am, scripts/external_apis/enphase/.gitignore, .../external_apis/enphase/{enphase-monitor ⇒ enphase-monitor.in}, configure.ac, scripts/external_apis/*: convert enphase script and unit sources into .in templates [#2813]
- scripts/external_apis/README.adoc, scripts/external_apis/enphase/README.adoc: adjust wording in layman English parts of the text [#2813] Note that scripts/external_apis/enphase/README.adoc is not spell-checked because it includes text from a bash script and its many variable names.

2.43 2025-02-23 Scott Shambarger <devel@shambarger.net>

- Makefile.am, NEWS.adoc, configure.ac, docs/nut.dict, scripts/Makefile.am, scripts/external_apis/Makefile.am, scripts/external_apis/README.adoc, scripts/external_apis/enphase/README.adoc, scripts/external_apis/enphase/enphase-monitor, .../external_monitor@.service: scripts/external_apis: add example external protocol script New scripts directory for external_apis, including one integrating the Enphase IQ Gateway web-API with NUT.

2.44 2025-02-23 Jim Klimov <jimklimov+nut@gmail.com>

- UPGRADING.adoc, NEWS.adoc, drivers/mge-utalk.c, docs/nut.dict: fix to not status_set() nonstandard values [#2708]
- drivers/dstate.c, tests/driver_methods_utest.c: if a driver uses status_set("ALARM") and later proper alarm_set(), report only the content provided by the latter [#2801, #2708]
- drivers/clone.c, drivers/powerp-txt.c: fix dstate_setinfo() format from "%g" to "%f" to match NUT naming spec [#2807]
- docs/nut-names.txt: add a chapter to define Numeric format for values in NUT reported variables [#2807]

- docs/nut-names.txt: add a note about opaque strings that just happen to convey date/time [#2807]
- drivers/dstate.c, tests/driver_methods_utest.c: fix status_set("ALARM") cases to automatically alarm_commit() if the injected value is all the alarm we have [#2801, #2708]
- drivers/dstate.c, tests/driver_methods_utest.c: track status_set("ALARM") cases to set the ups.status token [#2801, #2708]
- drivers/dstate.c, tests/driver_methods_utest.c: fix that ALARM status would not appear twice: delay status_set("ALARM") effect and make it reasonable [#2801, #2708]
- drivers/dstate.c: status_set()/status_get(): fence extra tracing with #ifdef DEBUG not #if 0 [#2801]
- drivers/dstate.c, tests/driver_methods_utest.c: note that ALARM status may still appear twice [#2801, #2708]
- tests/driver_methods_utest.c: wrap one of test alarms in brackets as some drivers do for readability [#2801, #2708]

2.45 2025-02-21 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am, docs/Makefile.am, docs/man/Makefile.am: fix up with a DOCS_NO_MAN option to simplify parallel work from top-level Makefile while allowing legacy "cd docs && make" to still do the right thing

2.46 2025-02-20 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am: introduce $(SUBDIRS_ALL_RECURSIVE) and $(SUBDIR_TGT_RULE), and detail the dependencies

2.47 2025-02-14 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am: reorder a few top lines and document sequential handling of automake SUBDIRS and how it hurts parallel builds of NUT
- drivers/netvision-mib.c: stash older netvision_output_info[] mapping from before the fix in PR #2803
- NEWS.adoc, UPGRADING.adoc, docs/nut.dict: UPGRADING.adoc, NEWS.adoc: describe fix of drivers/netvision-mib.c [#2803]
- drivers/netvision-mib.c: bump version, fix whitespace in comments [#2803]

2.48 2025-02-12 Manuel Bouyer <bouyer@antioche.eu.org>

- drivers/netvision-mib.c: netvision-mib: sync netvision_output_info with SOCOMECUPS-MIB.txt The netvision_output_info array doens't match the upsOutputSource values from SOCOMECUPS-MIB.txt (the only Socomec MIB publically available) and also doesn't match values observed on our MASTERYS 3/3 SYSTEM which has a Net Vision v6.32 card.

2.49 2025-02-11 Viktor Drobot <linux776@gmail.com>

- drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_q2.c: Fix battery runtime calculation for Q2 protocol

2.50 2025-02-11 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am: hush forced "make docs" and repetitive doc-checks as the recipes were hopefully rectified
- drivers/main.c: avoid declaring "mutex" in WIN32 builds without main() for test mocks [#2708]
- drivers/dstate.c: status_get(): properly handle tokens that are substrings of another [#2708, #2565]
- tests/driver_methods_utest.c: test ups.status sub-token detection [#2708]

- tests/driver_methods_utest.c: test ALARM contents (with dupes) [#2708]
- tests/driver_methods_utest.c: test ALARM status [#2708]
- tests/driver_methods_utest.c: refactor pass.fail reporting [#2708]
- tests/.gitignore, tests/Makefile.am, tests/driver_methods_utest.c, tests/generic_gpio_utest.c: Introduce tests/driver_methods_utest [#2708] Relocated code tried earlier in generic_gpio_utest.c (not as portable a container - far from everyone builds it)
- appveyor.yml: ensure we can create version-less snapshot dir symlink The fault puzzled me though: we do pre-remove *.inst* whole... [00:36:07] CHECKING if any executable files were installed to locations other than those covered by this recipe, so might not have needed DLLs bundled near them [00:36:08] ln: ./.inst/NUT-for-Windows-x86_64-SNAPSHOT: cannot overwrite directory [00:36:08] Command exited with code 1

2.51 2025-02-10 Jim Klimov <jimklimov+nut@gmail.com>

- docs/new-drivers.txt: describe in ups.status values also that/how ARALM can be added [#2708]
- tests/generic_gpio_utest.c: check that whitespace chars around status_set() args are stripped [#2708]
- drivers/dstate.c, NEWS.adoc: status_set(): if we are reluctantly adding "A FEW TOKENS" at once, recurse to add one by one and so avoid duplicates [#2708] As a side effect, should also strip surrounding whitespace characters.
- drivers/dstate.c: fix status_get(), got inverted maths in a check [#2565, #2708]
- tests/generic_gpio_utest.c: piggy-back to test for duplicates with status_set() [#2708]
- drivers/liebert-gxe.c: do not use whitespace in status_set() args [#2708]
- drivers/bestfortress.c: do not use whitespace in status_set() args [#2708]

2.52 2025-02-09 Viktor Drobot <linux776@gmail.com>

- drivers/nutdrv_qx_innovart31.c, drivers/nutdrv_qx_q2.c, drivers/nutdrv_qx_q6.c: Separate code and variable declarations
- docs/nut.dict, drivers/nutdrv_qx_innovart31.c, drivers/nutdrv_qx_q2.c, drivers/nutdrv_qx_q6.c: Remove phase detection in updateinfo. Calm down spellchecker
- docs/man/nutdrv_qx.txt, docs/nut.dict, docs/nutdrv_qx-subdrivers.txt, drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_blazer-common.h, drivers/nutdrv_qx_innovart31.c, drivers/nutdrv_qx_q2.c, drivers/nutdrv_qx_q2.h, drivers/nutdrv_qx_q6.c, drivers/nutdrv_qx_q6.h: Add basic Q2 and Q6 protocol variants. Improve INNOVART31 protocol

2.53 2025-02-09 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx_q2.c: q2_initinfo(): fix formatting string
- drivers/nutdrv_qx_q6.c: q6_initinfo(): fix formatting string
- docs/man/Makefile.am: "make clean all" should remain useful
- NEWS.adoc: introduction of Q2 and Q6 protocol support in nutdrv_qx
- drivers/nutdrv_qx_q6.c: q6_claim(): revise comment
- drivers/nutdrv_qx_q2.c: q2_claim(): revise comment
- drivers/nutdrv_qx.c: bump DRIVER_VERSION for Q2/Q6 addition [#2798]
- docs/man/nutdrv_qx.txt: typo fixes for `nooutstats` [#2798]

- docs/Makefile.am, docs/man/Makefile.am: pass MAN_SECTION* and NUT_WEBSITE_BASE to asciidoc attributes [#722, #2733, #2743] If we ever decide to forgo rewritting of man page numbers and website URLs during creation of *-prepped sources fed into asciidoc (as done by PRs above) and directly use expadable asciidoc attributes in text, the Makefiles are ready. One downside is that plaintext original docs would become barely useful, with all those links externalized...
- docs/man/nut_usb_addvars.txt, docs/man/ups.conf.txt: add libusb API link spelling for curious readers of asciidoc source (not html/man/pdf renditions that needed escaping)
- docs/Makefile.am, docs/man/Makefile.am: rewrite bottom reference to "home page" to consider @NUT_WEBSITE_BASE@ (for historic releases) [#722]
- configure.ac, Makefile.am, docs/Makefile.am, docs/man/Makefile.am: fix DOC_BUILD_LIST to include "man-man" recipe, not "man" which is a dirname
- ci_build.sh: do not say "No BUILD_TYPE" was specified, when we are actually building (developer-oriented) "inplace" or with certain "docs" request
- docs/man/Makefile.am: standardize on --attribute=KEY=VAL spelling for a2x args everywhere
- ci_build.sh: accept "doc*" arguments that would be passed to configure script of developer builds Finally allow to not skip doc builds when developing just them :)
- ci_build.sh: restructure aliasing of "$1" to certain BUILD_TYPEs
- ci_build.sh: comment about INPLACE_RUNTIME=true envvar support

2.54 2025-02-08 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/mge-hid.c: cosmetic fixes
- scripts/python/Makefile.am: restore definition of PYNUT_COMMON_CODE (empty) for recipe to be fully defined [#2792]

2.55 2025-02-07 cgarz <20268068+cgarz@users.noreply.github.com>

- configure.ac: Update configure.ac, remove nut_have_telnetlib checks
- scripts/python/module/setup.py.in: Update setup.py.in, remove install_requires lib
- scripts/python/README.adoc: Update README.adoc, remove telnetlib section
- NEWS.adoc: Update NEWS.adoc PyNUTClient mention to include PR
- scripts/python/Makefile.am: Update python Makefile.am, remove nut_telnetlib.py reference.
- scripts/python/module/Makefile.am: Update python module Makefile.am, remove nut_telnetlib.py references.
- COPYING: update COPYING, remove nut_telnetlib.py mention.
- scripts/python/module/PyNUT.py.in: Update PyNUT changelog, bump version to 1.8.0
- scripts/python/module/PyNUT.py.in: Use socket create_connection instead of connect, Handles choosing IPv4 and IPv6 automatically.

2.56 2025-02-07 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nut_usb_addvars.txt, docs/man/ups.conf.txt: fix links leading to libusb API docs with two underscores
- tests/NIT/nit.sh: update comment about use of two explicit localhost IPv4/6 addresses, not a name, for upsd.conf
- scripts/python/module/nut_telnetlib.py: Remove the copy of module we do not need anymore
- configure.ac: restore nut_with_pynut_py* checks from v2.8.2, but test for "socket" instead of "telnetlib" module [#2183]
- docs/download.txt: change wording and use asciidoc link to pass dblatex⇒PDF generation
- INSTALL.nut.adoc: suggest how to push back a locally fixed git branch
- INSTALL.nut.adoc, docs/download.txt, docs/developers.txt: suggest fetching git tags to have a saner NUT_SEMVER in custom builds

2.57 2025-02-06 Jim Klimov <jimklimov+nut@gmail.com>

- data/html/README.adoc, lib/README.adoc, tests/NIT/README.adoc: Various other asciidocs: reconcile markup (multi-paragraph lists, etc.)
- data/html/README.adoc, docs/FAQ.txt, docs/config-prereqs.txt, docs/configure.txt, docs/man/pijuice.txt, docs/packager-guide.txt, docs/snmp.txt: Various docs: spell "man pages" as two words
- scripts/Windows/README.adoc, scripts/fuse/README.adoc, scripts/hotplug/README.adoc: Various scripts/ asciidocs: reconcile markup (multi-paragraph lists, etc.)
- INSTALL.nut.adoc, README.adoc, docs/cables.txt, docs/config-notes.txt, docs/config-prereqs.txt, docs/configure.txt, docs/daisychain.txt, docs/design.txt, docs/developer-guide.txt, docs/developers.txt, docs/download.txt, docs/features.txt, docs/hid-subdrivers.txt, docs/macros.txt, docs/net-protocol.txt, docs/new-clients.txt, docs/new-drivers.txt, docs/nut-names.txt, docs/nut-qa.txt, docs/packager-guide.txt, docs/security.txt, docs/snmp-subdrivers.txt, docs/solaris-usb.txt: Various main asciidocs: reconcile markup (multi-paragraph lists, etc.)
- docs/FAQ.txt: update some answers and a lot of asciidoc markup
- docs/download.txt: do not list NUT for Windows MSI 2.6.5 as if it were the latest option
- docs/developers.txt: refresh info about CI builds
- docs/developers.txt: fix links to NEWS.adoc and UPGRADING.adoc (now with .adoc extensions)
- docs/developers.txt, docs/nut.dict: docs/developers.txt: revise GitHub-based review and contribution process
- docs/developers.txt: mention more of our valgrind automation
- docs/developers.txt: mention plan for clang-format automation
- docs/developers.txt: link to "Documentation/CodingStyle" of Linux kernel fame
- docs/developers.txt: fix formatting of a paragraph with many mentions of "C+\+"
- docs/developers.txt: revise explanation of fatalx() et al - it is not always EXIT_FAILURE
- docs/developer-guide.txt: refer to NUT DDL repo
- docs/design.txt: update the HISTORY section with NUT for Windows named pipes, and driver-to-driver queries using local socket protocol [#1903]
- docs/configure.txt: clarify (again) that statepath is the default value for altpidpath, and expose why it is so named
- docs/design.txt, docs/nut.dict: docs/design.txt: explain the location and communication of the 3 layers in words
- docs/configure.txt: suggest use of "-R/lib/path" with non-standard locations

- docs/configure.txt: move LibGD header to its related content; pkg-config is a dependency of its own
- docs/configure.txt: reword what "state path" is
- docs/configure.txt: clarify --with-all=auto option
- docs/configure.txt: clarify libmodbus\+libusb requiring libusb-1.x API
- docs/configure.txt: clarify in-place builds wording
- docs/man/libupsclient-config.txt, docs/configure.txt: clarify `lib/libupsclient-config --config-flags` vs. `libupscl`
- docs/config-notes.txt: note the system-wide sleep support beginning in NUT v2.8.3
- docs/config-notes.txt: refer to nutshutdown script in NUT sources
- docs/config-notes.txt: suggest more typical locations for POWERDOWNFLAG file
- docs/config-notes.txt: Starting the driver(s): re-title that this is a chapter for legacy approach with upsdrvctl (keep same anchor)
- docs/config-notes.txt: Driver configuration: clarify dependency on built-in identifiers, and that they may be avoided
- docs/config-notes.txt: refer to nutconf; split the NOTE into paragraphs
- docs/man/adelsystem_cbi.txt, docs/man/al175.txt, docs/man/apcsmart-old.txt, docs/man/apcsmart.txt, docs/man/apcupsd-ups.txt, docs/man/asciidoc.conf, docs/man/asem.txt, docs/man/bcmxcp.txt, docs/man/bcmxcp_usb.txt, docs/man/belkinunv.txt, docs/man/bestfortress.txt, docs/man/blazer-common.txt, docs/man/gamatronic.txt, docs/man/generic_gpio.txt, docs/man/generic_modbus.t docs/man/genericups.txt, docs/man/hosts.conf.txt, docs/man/huawei-ups2000.txt, docs/man/hwmon_ina219.txt, docs/man/ivtscd.txt, docs/man/libnutclient_commands.txt, docs/man/libnutclient_devices.txt, docs/man/libnutclient_variables.txt, docs/man/liebert-esp2.txt, docs/man/liebert.txt, docs/man/macosx-ups.txt, docs/man/mge-shut.txt, docs/man/mge-utalk.txt, docs/man/netxml-ups.txt, docs/man/nhs_ser.txt, docs/man/nut-driver-enumerator.txt, docs/man/nut-ipmipsu.txt, docs/man/nut-recorder.txt, docs/man/nu scanner.txt, docs/man/nut.conf.txt, docs/man/nut.exe.txt, docs/man/nut_usb_addvars.txt, docs/man/nutconf.txt, docs/man/nut-drv_atcl_usb.txt, docs/man/nutdrv_qx.txt, docs/man/nutdrv_siemens_sitop.txt, docs/man/nutscan_add_option_to_device.txt, docs/man/nutscan_cidr_to_ip.txt, docs/man/nutupsdrv.txt, docs/man/oneac.txt, docs/man/phoenixcontact_modbus.txt, docs/man/pijuice.txt, docs/man/powerman-pdu.txt, docs/man/richcomm_usb.txt, docs/man/skel.txt, docs/man/snmp-ups.txt, docs/man/sockdebug.txt, docs/man/socomec_jbus.txt, docs/man/tripplite_usb.txt, docs/man/ups.conf.txt, docs/man/upsc.txt, docs/man/upscli_splitaddr.txt, docs/man/upscli_splitname.txt, docs/man/upscmd.txt, docs/man/upsd.conf.txt, docs/man/upsd.txt, docs/man/upsd.users.txt, docs/man/upsdrvctl.txt, docs/man/upsdrvsvcctl.txt, docs/man/upsimage.cgi.txt, docs/man/upslog.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/man/upsrw.txt, docs/man/upsset.cgi.txt, docs/man/upsset.conf.txt, docs/man/upsstats.cgi.txt, docs/man/upsstats.html.txt, docs/man/usbhid-ups.txt, docs/man/victronups.txt, docs/nut.dict: docs/man/*.txt: revise asciidoc markup and man page contents * Align multi-paragraph blocks to render with correct indentation * Upper-case program description sentences on top, and start of text in NOTE/WARNING blocks * Apply linkman/linkmanext instead of direct emphasis * Apply backtick verbatim format in more places for files, commands, etc. * Do not state that a driver "is not built by default", but that it "may be not built by default" (`configure --with-all=auto` is now default for some time) * Assorted typos * Short content clarifications and extensions here and there (long/significant ones tracked by other commits)
- drivers/upsdrvctl.c: wrap long line in help()
- docs/man/usbhid-ups.txt: "Selecting a specific UPS": clarify use of serial number, allow_duplicates, etc.
- docs/man/upslog.txt: clarify that "-N" does not do sanity checks
- docs/asciidoc-vars.conf, docs/asciidoc.conf, docs/man/asciidoc.conf: introduce linkmanext and linkmanext2 macros for non-NUT man pages
- docs/man/upsdrvctl.txt: mention "list" and "status" as commands (chapter intro)
- docs/man/upsdrvctl.txt: revise note of upsdrvsvcctl, and add reasons to run drivers directly sometimes
- docs/man/upsd.users.txt, docs/man/upsmon.txt: revise "upsmon" as more of a role than a set of actions
- docs/man/hosts.conf.txt, docs/man/upsset.conf.txt: docs/man/{hosts,upsset}.conf.txt: considerations on FS and HTTPS access security

- docs/man/upsmon.txt: document NUT_QUIET_INIT_UPSNOTIFY and NUT_QUIET_INIT_BANNER support
- docs/man/upsd.txt: document NUT_QUIET_INIT_UPSNOTIFY and NUT_QUIET_INIT_BANNER support
- docs/man/ups.conf.txt, docs/man/upsd.conf.txt, docs/man/upsd.users.txt, docs/man/upsmon.conf.txt: docs/man/{ups.conf,upsd.conf,u extend IMPORTANT NOTES with considerations on FS access security, slightly different for each file
- docs/man/upsd.txt: clarify that driver shutdown commands need no upsd

2.58 2025-02-05 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nutupsdrv.txt: document NUT_QUIET_INIT_UPSNOTIFY and NUT_QUIET_INIT_BANNER support; link to ups.conf and nut.conf man pages
- docs/man/nutconf.txt: fix IPMI cipher suite option representation as a table
- docs/man/nut_usb_addvars.txt: fix libusb docs URL rendering (double underscore is special)
- docs/man/nut.conf.txt: fix DIRECTIVES section rendering
- docs/man/nut-scanner.txt: fix NETWORK OPTIONS "NOTE" block markup
- docs/man/nut-scanner.txt: fix "-U. . . " table markup
- docs/man/nut-recorder.txt: link to upslog as a similar program
- docs/man/metasys.txt: link to copy of the protocol in NUT website library
- docs/man/index.txt: reference recent API and nutconf man pages
- docs/man/libnutclient.txt, docs/man/libnutclient_commands.txt, docs/man/libnutclient_devices.txt, docs/man/libnutclient_general.txt, docs/man/libnutclient_misc.txt, docs/man/libnutclient_tcp.txt, docs/man/libnutclient_variables.txt, docs/man/libupsclient-config.txt, docs/man/nutscan.txt, docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_add_ip_range.txt, docs/man/nutscan_add_opti docs/man/nutscan_cidr_to_ip.txt, docs/man/nutscan_display_parsable.txt, docs/man/nutscan_display_sanity_check.txt, docs/-man/nutscan_display_sanity_check_serial.txt, docs/man/nutscan_display_ups_conf.txt, . . . /nutscan_display_ups_conf_with_sanity_c docs/man/nutscan_free_device.txt, docs/man/nutscan_free_ip_ranges.txt, docs/man/nutscan_get_serial_ports_list.txt, docs/man/nutsc docs/man/nutscan_init_ip_ranges.txt, docs/man/nutscan_ip_ranges_iter_inc.txt, docs/man/nutscan_ip_ranges_iter_init.txt, doc-s/man/nutscan_new_device.txt, docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_eaton_serial.txt, docs/man/nutscan_scan_i docs/man/nutscan_scan_nut.txt, docs/man/nutscan_scan_nut_simulation.txt, docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_sc docs/man/nutscan_scan_xml_http_range.txt, docs/man/nutscan_stringify_ip_ranges.txt, docs/man/upscli_add_host_cert.txt, doc-s/man/upscli_cleanup.txt, docs/man/upscli_connect.txt, docs/man/upscli_disconnect.txt, docs/man/upscli_fd.txt, docs/man/up-scli_get.txt, docs/man/upscli_init.txt, docs/man/upscli_list_next.txt, docs/man/upscli_list_start.txt, docs/man/upscli_readline.txt, docs/man/upscli_sendline.txt, docs/man/upscli_splitaddr.txt, docs/man/upscli_splitname.txt, docs/man/upscli_ssl.txt, docs/man/up-scli_strerror.txt, docs/man/upscli_upserror.txt, docs/man/upsclient.txt: docs/man/{lib,nutscan,upscli}*: update markup of API docs to be consistent * Block-quoting and indentation of SYNOPSIS * Bullet-lists for numerous methods and args * Slight wording changes * Single-quote integer return values
- Backtick-quote program and config file names * Cross-link to some other pages with linkman macro
- docs/man/upscli_splitaddr.txt: fix description of the method
- docs/man/upsc.txt: refer to "See also" the upslog client and ups.conf man pages; revise markup
- docs/man/solis.txt: use standard markup for "Extra Arguments" and "Supported Commands"; refer to "See also" the microsol-apc driver
- docs/man/rhino.txt: use standard markup for "Extra Arguments" and "Supported Commands"
- docs/man/microsol-apc.txt: use standard markup for "Extra Arguments" and "Supported Commands"; refer to "See also" the solis driver
- docs/man/libupsclient-config.txt: note the pkg-config alternative to the older-style script

- docs/man/clone.txt, docs/man/clone-outlet.txt, docs/man/dummy-ups.txt: update wording and cross-links of the virtual device drivers
- docs/man/sockdebug.txt, docs/nut.dict: clarify the two separate sources of the program (POSIX/WIN32)
- AUTHORS, MAINTAINERS, docs/nut.dict: add Jim Klimov Just half a decade as maintainer; better late than never :)

2.59 2025-02-04 cgarz <20268068+cgarz@users.noreply.github.com>

- scripts/python/module/PyNUT.py.in: Remove walrus op for older python compatibility.

2.60 2025-02-04 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, drivers/main.c: exit_cleanup(): avoid upsnotify() at exit if CLI args were fatally useless Note also earlier change in commit d6112a3fa732f0881c3759870d51f1dad7348886
- NEWS.adoc: fix misplaced entry for baytech-rpc3nc-mib [#2779]
- docs/Makefile.am: EXTRA_DIST sms-brazil-protocol.txt and comment why it is not among ALL_TXT_SRC [#2090]
- docs/sms-brazil-protocol.txt: wrap long lines in intro paragraph [#2090]
- docs/man/sms_ser.txt: fix reference to docs/sms-brazil-protocol.txt [#2090]

2.61 2025-01-31 cgarz <20268068+cgarz@users.noreply.github.com>

- scripts/python/module/PyNUT.py.in: Switch to socket timeout, fix its init argument
- scripts/python/module/PyNUT.py.in: switch to socket send and replacement read_until
- scripts/python/module/PyNUT.py.in: added replacement read_until and leftover buffer

2.62 2025-01-29 RikyPlaza <rikyrod2001@gmail.com>

- drivers/phoenixcontact_modbus.c: implemented reading of more variables for TRIO and TRIO-2G models.

2.63 2025-01-29 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: Revert "ci_build.sh: tolerate OpenSSL headers on OmniOS" This reverts commit c8927a525ff754467796635bdc3a866126 a more general fix posted to m4/nut_check_libopenssl.m4
- m4/nut_check_libopenssl.m4: refactor to parse relevant dirs as "-isystem" from depCFLAGS
- drivers/optiups.c: rename global variables to not start with underscore clang-19: error: identifier pollv_ps *is reserved because it starts with* at global scope [-Werror,-Wreserved-identifier]
- m4/nut_check_libopenssl.m4, m4/nut_compiler_family.m4: m4/nut_check_libopenssl.m4: inject -isystem settings for OpenSSL-3 where needed
- configure.ac: add -Wno-missing-include-dirs to clang(-19) relaxation

2.64 2025-01-28 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/build-mingw-prereqs.sh: use libmodbus-git fork/branch recommended by NUT instructions
- scripts/Windows/build-mingw-prereqs.sh: revise git-usecase recovery from bad checkout (force-push to upsteram etc.)
- drivers/powerman-pdu.c: use same enum type for two variants of result
- drivers/libusb1.c, drivers/nut-libfreeipmi.c, tools/nut-scanner/scan_ipmi.c: Various: reconcile formatting strings and int-ish casting
- ci_build.sh: tolerate OpenSSL headers on OmniOS

2.65 2025-01-27 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt: update OmniOS and OpenIndiana pointers to current gcc/clang in rolling distro releases
- Jenkinsfile-dynamatrix: fix typo in comment
- m4/nut_compiler_family.m4: fix detection of actually unsupported compiler flags [#1352]

2.66 2025-01-26 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/nut.dict: NEWS.adoc: update for baytech-rpc3nc-mib [#2779]

2.67 2025-01-25 Jim Klimov <jimklimov@gmail.com>

- scripts/valgrind/valgrind.sh.in: revise detection of VALGRIND and LIBTOOL values

2.68 2025-01-25 Jim Klimov <jimklimov+nut@gmail.com>

- tests/generic_gpio_utest.c: Revert "tests/generic_gpio_utest.c: Be sure the internal gpioupsfd in driver code is freed before we (re?)init it in test" This reverts commit bf59f10950246f1dd8ea22e58d501502c7bd499d.
- drivers/generic_gpio_common.c: generic_gpio_open(): reshuffle to optimize * Less lookups to testval/getval * Do not xalloc and fatalx if got no rules (avoid leak)
- tests/generic_gpio_utest.c: fix inverted strcmp() result treatment
- tests/generic_gpio_utest.c: Be sure the internal gpioupsfd in driver code is freed before we (re?)init it in test
- drivers/generic_gpio_common.c, drivers/generic_gpio_common.h, tests/generic_gpio_utest.c: drivers/generic_gpio_common.{c,h}, tests/generic_gpio_utest.c: refactor generic_gpio_close() to take a pointer to pointer and nullify it
- drivers/generic_gpio_common.c: generic_gpio_close(): free(gpioupsfdlocal→rules) itself too, not just entries in the list
- tests/generic_gpio_utest.c: do upsdrv_cleanup() now that it is safe to occasionally repeat the attempt
- drivers/generic_gpio_common.c: upsdrv_cleanup(): only free resources once Check if (gpioupsfd!=NULL) and nullify it afterwards. Should not be a problem in the real driver, but confused the repetitive use of this code in unit test case.
- drivers/generic_gpio_common.c: fix code markup to adhere closer to NUT coding style
- tests/generic_gpio_utest.c: dstate_free() after the test run
- tests/generic_gpio_utest.c: comment away upsdrv_cleanup() in codepath which we did not upsdrv_init()
- tests/generic_gpio_utest.c: refactor work with generic_gpio_close() to avoid use after free
- tests/nutconf_ut.cpp: NutConfigUnitTest::testUpsmonConfiguration(): fix memory leak with temporary BoolInt instances

- common/nutstream.cpp: checkExistsWritableDir(): fix memory leak with opened DIRFD
- scripts/valgrind/.valgrind.supp: add suppressions for dash interpreter
- scripts/valgrind/.valgrind.supp: add suppressions for C+\+ tests (CPPUNIT leaky internals)
- scripts/valgrind/valgrind.sh.in: comment about --gen-suppressions=all option
- configure.ac, scripts/valgrind/.gitignore, scripts/valgrind/README.adoc, scripts/valgrind/{valgrind.sh ⇒ valgrind.sh.in}, tests/Makefile.am: configure.ac, scripts/valgrind/valgrind.sh.in, tests/Makefile.am: make the helper script a template
- tests/Makefile.am: memcheck: use the NUT-customized wrapper for valgrind
- scripts/valgrind/valgrind.sh: allow to customize the VALGRIND to be used
- tests/Makefile.am: memcheck: report OVERALL FAILED cases (if any)
- Makefile.am: separate meaning of memcheck vs. distcheck-valgrind targets

2.69 2025-01-24 Jim Klimov <jimklimov@gmail.com>

- configure.ac, Makefile.am: DISTCHECK_FLAGS*: inherit CFLAGS/CXXFLAGS values used by configure of the main build (e.g. passed some time ago from ci_build.sh or user), add CPPFLAGS and LDFLAGS to the mix

2.70 2025-01-24 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: hot-fix issue #2782 on OmniOS
- tests/Makefile.am: refactor "memcheck" recipe to be usable stand-alone, and not only with C+\+ builds
- Makefile.am: only proceed to "make memcheck" if we HAVE_VALGRIND
- tools/gitlog2version.sh: fix getver_default() determination of NUT_VERSION_DEFAULT3 and thus NUT_SOURCE_GITREV_IS_R in configure.ac (for distcheck or tarball builds) [#1949]
- Makefile.am: do not evaluate DISTCHECK_CONFIGURE_FLAGS right when calling sub-"make distcheck" [#2541, fixes #2542 fallout]
- Makefile.am: embed PKG_CONFIG_PATH we were built with into DISTCHECK_CONFIGURE_FLAGS
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: revise OmniOS chapter to note run-time linking troubles with OOCE (Extra repo) [#2782]
- docs/config-prereqs.txt: revise OmniOS chapter to better reflect current LTS 151046

2.71 2025-01-23 RikyPlaza <rikyrod2001@gmail.com>

- drivers/phoenixcontact_modbus.c: Added management for TRIO-2G UPS of output.voltage variable
- drivers/phoenixcontact_modbus.c: added management of new ups models for OB, OL, CHRG and LB flags.
- drivers/phoenixcontact_modbus.c: Added new ups models in enumeration and updated upsdrv_initinfo function.
- drivers/phoenixcontact_modbus.c: Added entries for new models.

2.72 2025-01-23 Jim Klimov <jimklimov@gmail.com>

- ci_build.sh: apply compiler/linker flags possibly adjusted by detect_platform_PKG_CONFIG_PATH_and_FLAGS() in BUILD_TYPE cases
- ci_build.sh: normalize_path() the PATH and CCACHE_PATH after guesswork and before build

2.73 2025-01-23 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: avoid exporting compiler flags for "windows-msys2" semi-native builds with ccache Nothing wrong in theory, but in practice either autotools or ccache build on that platform handles the expanded flags as if they were a path to non-existing location of a source file :\
- docs/config-prereqs.txt: add pkg name for libltdl on OmniOS
- m4/nut_check_libltdl.m4: fix re-detection with CFLAGS added
- ci_build.sh: refactor detect_platform_PKG_CONFIG_PATH_and_FLAGS() with normalize_path() even more
- ci_build.sh: refactor detect_platform_PKG_CONFIG_PATH_and_FLAGS() with normalize_path()
- ci_build.sh: refactor detect_platform_PKG_CONFIG_PATH_and_FLAGS() for many logic paths on Solaris/illumos
- ci_build.sh: also handle CANBUILD_WITH_LIBMODBUS_USB in parameter-less/BUILD_TYPE="" builds
- ci_build.sh: fix "[" tests to use "=" not "==" for comparisons
- appveyor.yml: pass CANBUILD_WITH_LIBMODBUS_USB tweak to ci_build.sh
- ci_build.sh: introduce CANBUILD_WITH_LIBMODBUS_USB tweak

2.74 2025-01-22 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: clean up indentations
- ci_build.sh: teach developer-oriented runs some tricks from CI When BUILD_TYPE=="" or "inplace", make use of newly separated methods like optional_ensure_ccache(), optional_prepare_compiler_family(), detect_platform_PKG_CONFIG_PATH_and_FL
- ci_build.sh: add OmniOS CE "Extra" repository binaries to PATH if present
- ci_build.sh: prepare also BUILTIN_PKG_CONFIG_PATH as part of the equation (least priority)
- docs/config-prereqs.txt: update for OmniOS r151052
- ci_build.sh: detect OmniOS CE extra repo as part of SYS_PKG_CONFIG_PATH
- appveyor.yml: when installing, "set -e" to fail if any script actions fail, and finish with "date -u" to check how long "7z" takes subsequently
- m4/nut_check_libusb.m4: enable libusb-1.0 on mingw/MSYS2 if we also want --with-modbus\+usb=yes [#1507]
- m4/nut_check_libmodbus.m4, m4/nut_check_libusb.m4: comment to remind that libusb-1.0 is required by libmodbus with rtu_usb
- configure.ac, drivers/Makefile.am: fix condition for linking apc_modbus against libusb
- m4/nut_check_libmodbus.m4: remember tuned depLIBS and depCFLAGS if re-checks succeed
- m4/nut_check_libmodbus.m4: tests on Windows may require -lws2_32 and/or -liphlpapi
- scripts/Windows/build-mingw-prereqs.sh: report *.pc files in the "production" install area [#1491]
- appveyor.yml: Revert "appveyor.yml: force rebuild/reinstall of custom prereqs (TBD: disable later)" This reverts commit 24829c5ddbb1ced12372afeffdfb691352713930.
- appveyor.yml: Revert "appveyor.yml: TEMPORARY: Constrain to only re-build NUT prerequisites and fit into the 1-hour time slot" This reverts commit 0901f35b7cdd131788abd4a16b2ce7a4e28540dd.
- scripts/Windows/build-mingw-prereqs.sh: inject MSYS2 ccache symlink location if present [#1491]
- scripts/Windows/build-mingw-prereqs.sh: report resulting PATH

- scripts/Windows/build-mingw-prereqs.sh: fix shell expansion style for PREFIX in gitrepo case
- scripts/Windows/build-mingw-prereqs.sh: fix shell expansion style for PREFIX in tarball case
- scripts/Windows/build-mingw-prereqs.sh: only fix up PATH if PREFIX/bin is not yet there
- appveyor.yml: TEMPORARY: Constrain to only re-build NUT prerequisites and fit into the 1-hour time slot
- appveyor.yml: pepper CCACHE location into PATH for explicit MAKE calls and build-mingw-prereqs.sh [#1491] We are only sort of guaranteed to use ccache out of the box when arranged by ci_build.sh, but might not benefit from it in other cases.
- appveyor.yml: parallelize spellcheck a bit more
- appveyor.yml: use faster compression in APPVEYOR_CACHE_ENTRY_ZIP_ARGS
- scripts/Windows/build-mingw-prereqs.sh: normalize away extra slashes from PREFIX
- scripts/Windows/build-mingw-prereqs.sh: fetch with curl non-verbosely

2.75 2025-01-22 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: refactor with logic moved from BUILD_TYPE=default* to reusable methods * ensure_CI_CCACHE_SYMLINKDIR_env * optional_prepare_ccache() * optional_prepare_compiler_family() and helpers is_gnucc(), is_clang(), filter_version(), ver_gnucc(), ver_clang() * optional_ensure_ccache() * detect_platform_CANBUILD_LIBGD_CGI() * detect_platform_PKG_CONFIG_PATH_an

2.76 2025-01-21 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/build-mingw-prereqs.sh: report the prepared environment variables [#1491]

2.77 2025-01-20 Noah Jacobson <noah@noahjacobson.com>

- drivers/snmp-ups.c: chore: bump snmp-ups version
- drivers/Makefile.am, drivers/baytech-rpc3nc-mib.c, drivers/baytech-rpc3nc-mib.h, drivers/snmp-ups.c: feat: add SNMP support for Baytech RPC3-NC PDUs Some models of Baytech RPC3-NC PDUs do not have a value at ".1.3.6.1.4.1.4779.1.3.5.2.1.24.1", causing the sysOID match to fail. Added a 2nd MIB that looks at ".1.3.6.1.4.1.4779.1.3.5.5.1.3.2.1" instead. This patch would fall under the "various RPC" entry in the hardware compatibility list, thus the list does not need updating.

2.78 2025-01-20 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/build-mingw-prereqs.sh: if component "configure" script fails, print its config.log [#1491]
- appveyor.yml: force rebuild/reinstall of custom prereqs (TBD: disable later)
- scripts/Windows/build-mingw-prereqs.sh: document that libmodbus is also covered [#1491]
- scripts/Windows/build-mingw-prereqs.sh: document example usage for non-Windows targets [#1491]
- scripts/Windows/build-mingw-prereqs.sh: avoid use of "true" program [#1491]
- scripts/Windows/build-mingw-prereqs.sh: revise determination of PREFIX with PREFIX_ROOT [#1491]
- scripts/Windows/build-mingw-prereqs.sh: revise determination of ARCH and PREFIX, so they can be customized (e.g. for non-Windows prereq builds eventually) [#1491]
- scripts/Windows/build-mingw-prereqs.sh: comment progression through the script (whether we skip a component as already installed, or we fetch/build/install it [#1491]
- appveyor.yml: skip installing packaged mingw-w64-x86_64-libmodbus-git, use the custom-built one (like net-snmp)

- scripts/Windows/build-mingw-prereqs.sh: only chmod/remove builddir if it exists before rebuild [#1491]
- scripts/Windows/build-mingw-prereqs.sh: minimize local filesystem changes when checking remote Git for changes [#1491]
- scripts/Windows/build-mingw-prereqs.sh: use libmodbus branch fix-mingw-build temporarily
- scripts/Windows/build-mingw-prereqs.sh: add a way to provide_libmodbus_git() [#2609, #1473, #1491]
- . . . /ci/jenkins-nut-large-with-plateborder.pdn, docs/images/ci/jenkins-nut-vector.svg: Update docs/images/ci/jenkins-nut-large-with-plateborder.pdn, add vector docs/images/ci/jenkins-nut-vector.svg
- scripts/Windows/build-mingw-prereqs.sh: separate MAKEFLAGS from MAKE [#1491]
- scripts/Windows/build-mingw-prereqs.sh: default to "gmake" if available by such name
- scripts/Windows/build-mingw-prereqs.sh: minor fixes to layout; use "rsync -c" to only modify dest if needed
- scripts/Windows/build-mingw-prereqs.sh: bump © and license blurb
- appveyor.yml: pre-remove mingw-w64-i686-gdb-multiarch if present

2.79 2025-01-19 Jim Klimov <jimklimov+nut@gmail.com>

- .github/workflows/PyNUTClient.yml: test with python-3.13 [#2733]
- scripts/python/module/README.adoc: update list of regularly touched Python 3.x versions [#2733]
- scripts/python/module/setup.py.in: update list of classifiers [#2733]
- NEWS.adoc, UPGRADING.adoc, scripts/python/module/Makefile.am, scripts/python/module/README.adoc, scripts/python/-module/setup.py.in: scripts/python/module, docs: adjust PyNUTClient tarball name to PEP-0625 requirements [#2773]
- scripts/python/README.adoc: update wording [#2773]

2.80 2025-01-18 Jim Klimov <jimklimov+nut@gmail.com>

- clients/cgilib.c, clients/upssched.c, clients/upsset.c, clients/upsstats.c, common/common.c, common/upsconf.c, common/wincompat.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/dummy-ups.c, drivers/main.c, drivers/snmp-ups.c, drivers/upsdrvctl.c, drivers/upsdrvquery.c, drivers/upsdrvquery.h, scripts/Windows/wininit.c, server/conf.c, server/desc.c, server/pipedebug.c, server/sstate.c, server/upsd.c, server/user.c: Various: use NUT_PATH_MAX instead of SMALLBUF for file/sock-/pipe names [#2764]
- clients/upssched.c, common/common.c, common/nutstream.cpp, drivers/hwmon_ina219.c, drivers/nhs_ser.c, include/wincompat.h, scripts/Windows/wininit.c, server/sstate.c: Various: use NUT_PATH_MAX instead of PATH_MAX, MAX_PATH, MAXPATHLEN, UNIX_PATH_MAX etc. [#2764]
- common/common.c: use NUT_PATH_MAX instead of ifdef UNIX_PATH_MAX tricks [#2764]
- include/common.h: introduce NUT_PATH_MAX as the longest of several possible variants [#2764]
- server/sstate.c: report full path to expected UPS named pipe (WIN32) when we fail to connect [#2764]
- NEWS.adoc, conf/nut.conf.sample, drivers/dstate.c: introduce NUT_QUIET_INIT_LISTENER envvar [#2764]
- drivers/dstate.c: fix some WIN32 code markup
- drivers/dstate.c: sock_open(): report path to sockfn (or WIN32 named pipe) the driver now listens on [#2764]
- server/sstate.c: report full path to expected UPS socket file when we fail to connect [#2764]
- server/upstype.h: comment upstype_s→fn
- configure.ac: diligently check for various integer types

2.81 2025-01-16 Jim Klimov <jimklimov@gmail.com>

- tools/gitlog2changelog.py.in: adapt to Python 3.13 deprecation of positional "maxsplit" parameter to re.split()
- scripts/python/Makefile.am, scripts/python/module/Makefile.am: be sure to install nut_telnetlib.py along with PyNUT.py file [#2183, #2501, #2505] Deliver nut_telnetlib.py with Python 3.13 that lacks its own. Some use-cases did ensure its presence, but not all cases yet.

2.82 2025-01-16 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx_voltronic.c, NEWS.adoc: fix battery.runtime for newer protocol dialect [#2765]

2.83 2025-01-15 Jim Klimov <jimklimov@gmail.com>

- docs/config-prereqs.txt: update the MacOS chapter a bit

2.84 2025-01-11 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upslog.c, docs/man/upslog.txt, NEWS.adoc: Added `-N` to prefix `%UPSHOST%%t` before the format string
- NEWS.adoc, clients/upslog.c, clients/upslog.h: clients/upslog.{c,h}, NEWS.adoc: refactor to pass monhost_ups_t* to methods and avoid shared global vars for single UPS NOTE: The logbuffer and logformat remain shared, the former is cleaned before use in run_flist() anyway. Might be passed around, too, but why keep re-allocating and freeing memory (or tossing more stack bytes with pointer and size to static variable of that method)?..
- clients/upslog.c: main loop: do not rely on "ups" variable as such
- clients/upslog.c, clients/upslog.h: clients/upslog.{c,h}: move definitions of logtarget_t and monhost_ups_t to header, rename the latter with "_t"
- docs/config-prereqs.txt: update instructions for OpenIndiana (as of 2024.04)
- Makefile.am: install-as-root: SMF: fix path to svcadm [#1298]
- scripts/Solaris/Makefile.am: combine "package-solaris-svr4" into one shell block (keep ISA vars defined)
- scripts/Solaris/Makefile.am: consider ISA info (specific 32/64-bit CPU support) of build target host in package naming as NUT/NUTx - Makefile typo fix
- configure.ac: fix fallback PROBE_OS_GROUP definition
- Makefile.am: install-as-root: update comment [#1298]
- Makefile.am: install-as-root: fix NDE retcode 42 behaviour [#1298]
- Makefile.am: install-as-root: separate service-stopping from "make install" of new files and creation/ownership/restart of new artifacts [#1298]
- configure.ac: refine NUT_VERSION_DEPLOYED (seen when we ./configure --enable-inplace-runtime)
- INSTALL.nut.adoc, docs/config-notes.txt: update with info on `(sudo) make install-as-root` [#1298]
- scripts/Solaris/Makefile.am: consider ISA info (specific 32/64-bit CPU support) of build target host in package naming as NUT/NUTx
- Makefile.am: install-as-root: avoid chmod/chown of common OS locations like /run /var/run /etc [#1298]

2.85 2025-01-10 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am, configure.ac, NEWS.adoc: implement install-as-root [#1298]

2.86 2025-01-09 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/nut.dict, scripts/Windows/.gitignore, scripts/Windows/README.adoc, scripts/Windows/build-mingw-nut.sh: scripts/Windows/build-mingw-nut.sh et al: extend to use
- m4/nut_check_libnetsnmp.m4: fix detection of WITH_SNMP_STATIC for hosts/targets where it is needed [#2673]
- scripts/Windows/README.adoc: update with instructions how to build cppunit
- scripts/Windows/README.adoc: update the paragraph about native builds with Windows MSYS2 environment
- docs/config-prereqs.txt: termux/cppunit: static lib not needed after all

2.87 2025-01-08 Jim Klimov <jimklimov+nut@gmail.com>

- tests/cpputest-client.cpp: use HAVE_PRAGMA_CLANG_DIAGNOSTIC_IGNORED_DEPRECATED_DECLARATIONS for new clang-19
- Makefile.am: fix install-man activity (wrong dir)
- docs/Makefile.am: simplify DOCBUILD_FILTER_GITHUB_LINKS and DOCBUILD_CONVERT_GITHUB_LINKS that were not re-used into a single block of code Helps against docs/Makefile.am: warning: escaping \# comment markers is not portable Fix inspired by https://github.com/ddclient/ddclient/issues/745
- include/nutipc.hpp: add default label to an old case

2.88 2025-01-07 Jim Klimov <jimklimov+nut@gmail.com>

- tests/cpputest.cpp, tests/example.cpp, tests/nutclienttest.cpp, tests/nutconf_parser_ut.cpp, tests/nutconf_ut.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp: tests/*.cpp: use HAVE_PRAGMA_CLANG_DIAGNOSTIC_IGNORED_DEPRECATED_DECLARATION for new clang-19
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_CLANG_DIAGNOSTIC_IGNORED_DEPRECATED_DECLARATIONS detection
- docs/config-prereqs.txt, docs/nut.dict: clarify about cppunit on Termux
- tests/generic_gpio_liblocal.c: add default label to an old case
- m4/nut_check_pkgconfig.m4: extend comment
- NEWS.adoc, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsmon.h, clients/upsrw.c, common/common.c, common/parseconf.c, drivers/adelsystem_cbi.c, drivers/al175.c, drivers/apc-hid.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/cps-hid.c, drivers/dstate.c, drivers/etapro.c, drivers/everups.c, drivers/generic_modbus.c, drivers/huawei-ups2000.c, drivers/libhid.c, drivers/libshut.c, drivers/libusb1.c, drivers/liebert-esp2.c, drivers/liebert-gxe.c, drivers/liebert.c, drivers/microdowell.c, drivers/microsol-common.c, drivers/netxml-ups.c, drivers/nhs_ser.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_innovart31.c, drivers/nutdrv_qx_voltronic-qs-hex.c, drivers/powercom.c, drivers/riello_ser.c, drivers/riello_usb.c, drivers/serial.c, drivers/snmp-ups.c, drivers/socomec_jbus.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upsdrvctl.c, drivers/usbhid-ups.c, drivers/ydn23.h, tests/getexponenttest-belkin-hid.c, tests/getvaluetest.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_xml_http.c: Reconcile int-ish data types with formatting strings [#823] New checks in clang-18/19 brought new findings, some of them reasonable :) * "%x" style formatting requires an (unsigned int) variable * numeric literals and macros are (int) by default * results of math with (uint16_t), done in some cases, are upscaled into (int) by default * char, unsigned or not, seems to be also upscaled into (int) Overall, had to change formatting strings in some cases, variable types in others (e.g. flags or notification types do not make sense as signed) and added casting in a few places that remained.
- drivers/huawei-ups2000.c: fix whitespace (trailing, indentation)
- drivers/adelsystem_cbi.c: fix whitespace (trailing, indentation)
- common/common.c: add default label to an old case
- docs/nut.dict: "tuples" are not understood by some distros

2.89 2025-01-06 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, clients/upsclient.c: clients/upsclient.c: upscli_splitname(): handle "upsname:port" shortcut attempts
- clients/upslog.c: bump © years
- clients/upslog.c, docs/man/upslog.txt, NEWS.adoc: handle "*" as UPS name to query for currently served devices
- clients/upslog.c: default pointer vars to NULL
- clients/upslog.c, docs/man/upslog.txt, NEWS.adoc: Added `-D` for debugging (and foregrounding by default), like with other NUT daemons
- clients/upslog.c, docs/man/upslog.txt, NEWS.adoc: Same log file may now safely be used in different logging tuples
- common/common.c, drivers/adelsystem_cbi.h, drivers/generic_gpio_common.c, drivers/generic_gpio_libgpiod.c, tests/generic_gpio_
  Fix parameter order for xcalloc() in various offences
- clients/upslog.c, docs/man/upslog.txt, NEWS.adoc: Fixed printing of `%UPSHOST%` when multiple systems are being logged
- clients/upslog.c, docs/man/upslog.txt, NEWS.adoc: A `%t` for a TAB character can now be used in the formatting string
- clients/upslog.c, docs/man/upslog.txt, NEWS.adoc: support legacy and tuple logging specs together

2.90 2025-01-05 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upslog.c: fix max loops CLI arg processing [#2753]
- NEWS.adoc, UPGRADING.adoc: report that upslog is now also a service [#1803]
- tests/NIT/nit.sh: testcase_sandbox_upsc_query_timer(): use upslog for a second opinion [#1803]
- drivers/cps-hid.c, NEWS.adoc: try to fix frequency scaling dynamically [#2717]
- clients/Makefile.am: upslog is now an integrated service, use the full library [#1803]
- scripts/systemd/nut-logger.service.in: revise systemd integration mishaps [#1803]

2.91 2025-01-04 William Goodspeed <86338960+goodspeed34@users.noreply.github.com>

- drivers/liebert-gxe.c: fix bad backup time report It seems `battery.runtime` should be used for battery backup time instead `.low` one. Also the division was also faulty probably because I copied and pasted the code from previous lines but the manual says it shouldn't be there. The commit should give correct backup time readings and corrected variable name.

2.92 2025-01-03 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upslog.c, docs/man/upslog.txt: clients/upslog.c: support limit of loop count
- clients/upslog.c: revise code markup
- tests/NIT/nit.sh: stop_daemons(): first stop upsmon by its own command, then kill it As of now we `make check-NIT-sandbox-c` and eventually `kill $UPSMON_PID` but this only stops the parent process, but the forked-off child keeps running.
- drivers/main.c: main(): fix comment markup
- NEWS.adoc, drivers/main.c: drivers/main.c: main(): try harder to kill off older driver instances when we run to do_forceshutdown [#2666]
- drivers/main.c: main(): do try to chdir(dflt_statepath()) when we (do_forceshutdown |\| dump_data) also, just keep it non-fatal [#2666]

- drivers/main.c: main(): rearrange code written for WIN32 builds (markup and variable definitions before code)
- scripts/Windows/README.adoc: remind about prerequisite installation
- scripts/Windows/README.adoc: fix markup for pthreads installation
- scripts/Windows/README.adoc: clarify envvar persistence for the build
- Makefile.am: enable distcheck --with-systemdsystempresetdir
- docs/Makefile.am, docs/man/Makefile.am: .prep-src-docs: play nice with different MKDIR_P as we "cd" around [#722]

2.93 2025-01-02 Jim Klimov <jimklimov@gmail.com>

- docs/Makefile.am, docs/man/Makefile.am: .prep-src-docs for out-of-tree builds: only rewrite "linkman" references for doc text sources that have them [#722] Spare asciidoc.conf, docinfo.xml and similar resource files, as well as docs that do not have those tags in the first place.
- docs/Makefile.am, docs/man/Makefile.am: .prep-src-docs for out-of-tree builds with Sun make: handle plain filenames in $(PREP_SRC) without a prefixed directory Looking at generated docinfo.xml and linkman-* files respectively.
- docs/configure.txt: clarify that --with-docs-man-* options do not enable doc building by themselves

2.94 2025-01-02 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/systemd/Makefile.am: wrap long lines in EXTRA_DIST
- configure.ac, scripts/systemd/.gitignore, scripts/systemd/Makefile.am, scripts/systemd/{nut-driver.target ⇒ nut-driver.target.in}: scripts/systemd/nut-driver.target et al: make it a .in template [#722]
- scripts/systemd/nut-driver-enumerator-daemon-activator.path.in, scripts/systemd/nut-driver-enumerator-daemon-activator.service.in, scripts/systemd/nut-driver-enumerator-daemon.service.in, scripts/systemd/nut-driver-enumerator.path.in, scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver.target, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.se scripts/systemd/nut-server.service.in, scripts/systemd/nut-sleep.service, scripts/systemd/nut.target.in, scripts/systemd/nutshut-down.in: scripts/systemd/nut*.in: bump © to 2025
- UPGRADING.adoc, scripts/systemd/Makefile.am, scripts/systemd/nut-systemd.preset: scripts/systemd/nut-systemd.preset, UP-GRADING.adoc: introduce the file, document the units and why they are enabled or disabled by default [#2721]
- scripts/systemd/nut-sleep.service: typo fix, bump ©
- configure.ac, docs/configure.txt, NEWS.adoc, docs/nut.dict: introduce --with-systemdsystempresetdir setting
- configure.ac: refactor detection of systemd directories (yes/auto mode via pkg-config)
- clients/upslog.c: help(): clarify that "-m tuple" option(s) can override "-s ups -l file" in effect
- docs/man/upslog.txt: clarify that "-m tuple" option(s) can override "-s ups -l file" in effect
- configure.ac, scripts/Solaris/.gitignore, scripts/Solaris/Makefile.am, scripts/Solaris/nut-logger.xml.in, scripts/Solaris/svc-nut-logger.in, scripts/systemd/.gitignore, scripts/systemd/Makefile.am, scripts/systemd/nut-logger.service.in, scripts/systemd/nut.target.in: Introduce service wrapping for upslog client daemon [#1803]

2.95 2025-01-01 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/Makefile.am: fix typo of recent change

2.96 2024-12-31 Jim Klimov <jimklimov+nut@gmail.com>

- include/nutconf.hpp: fix getStr() for string literals after refactoring for case-sensitivity [#694]
- common/nutconf.cpp, include/nutconf.hpp: allow to get some entries by case-insensitive names [#2739]

2.97 2024-12-30 Jim Klimov <jimklimov@gmail.com>

- configure.ac, scripts/Solaris/nut-driver-enumerator.xml.in, scripts/Solaris/nut-driver.xml.in, scripts/Solaris/nut-monitor.xml.in, scripts/Solaris/nut-server.xml.in, scripts/Solaris/nut.xml.in, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: configure.ac, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, scripts/Solaris/*.xml.in: when suggesting man pages in service metadata, refer to packaged NUT_MANDIR [#722]
- common/common.c, scripts/Solaris/nut-driver-enumerator.xml.in, scripts/Solaris/nut-driver.xml.in, scripts/Solaris/nut-monitor.xml.in, scripts/Solaris/nut-server.xml.in, scripts/Solaris/nut.xml.in, . . . /nut-driver-enumerator-daemon-activator.path.in, . . . /nut-driver-enumerator-daemon-activator.service.in, scripts/systemd/nut-driver-enumerator-daemon.service.in, scripts/systemd/nut-driver-enumerator.path.in, scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in, scripts/systemd/nut.target, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: common/common.c, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, scripts/systemd/nut*.in, scripts/Solaris/*.xml.in: when suggesting man pages for further reading, refer to correct (configurable) section identifier [#722]
- autogen.sh: fix typo in message
- docs/Makefile.am, docs/man/Makefile.am: */Makefile.am: Use *.txt-prepped files not as symlinks but as sources to provide corrected man page sections where needed
- configure.ac: fix fallback for NUT_WEBSITE_BASE [#722]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: complete smf_setDocLink() for actual SMF command syntax [#722]
- scripts/Solaris/precheck.py.in: handle new string semantics for Python 3
- scripts/Solaris/pkginfo.in: refer to NUT_WEBSITE_BASE as vendor URL [#722]
- UPGRADING.adoc, docs/nut.dict, scripts/Solaris/Makefile.am: scripts/Solaris/Makefile.am: consider ISA info (specific 32/64-bit CPU support) of build target host in package naming
- scripts/Solaris/precheck.py.in: consider ISA info (specific 32/64-bit CPU support) of installation host vs. build target host
- Makefile.am, UPGRADING.adoc, scripts/Solaris/Makefile.am: */Makefile.am: name HPUX and Solaris package files with a dash before the SEMVER part
- scripts/Solaris/nut-driver-enumerator.xml.in: fix envvar passing to NDE script launch
- scripts/Solaris/nut-driver-enumerator.xml.in: missed one set of documentation links [#722]
- INSTALL.nut.adoc, Jenkinsfile-dynamatrix, NEWS.adoc, README.adoc, UPGRADING.adoc, ci_build.sh, clients/nutclient.cpp, docs/asciidoc-vars.conf, docs/config-prereqs.txt, drivers/apc-mib.c, drivers/bcmxcp_usb.c, drivers/blazer_ser.c, drivers/blazer_usb.c, drivers/delta_ups-hid.c, drivers/dstate.c, drivers/hidparser.c, drivers/nutdrv_qx_voltronic.c, scripts/installer/common/shutdown, tests/getvaluetest.c, tests/nutlogtest.c, tools/nut-dumpdiff.sh, tools/nut-scanner/nutscan-ip.c: Standardize wording of "vs." over "vs" (comments, messages, docs) to be consistent

2.98 2024-12-30 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, UPGRADING.adoc, configure.ac, docs/configure.txt, docs/man/.gitignore, docs/man/Makefile.am, docs/nut.dict: configure.ac, docs/man/Makefile.am, et al: allow configuring man page section names Certain distributions have to patch built NUT artifacts for their packaging with their man page sectioning standards. Make life easier, be friendlier out of the box :)
- include/nutconf.hpp: add support for STATEPATH in ups.conf [#694]
- scripts/augeas/nutupsconf.aug.tpl: add support for STATEPATH in ups.conf [#694]
- configure.ac, scripts/systemd/.gitignore, scripts/systemd/Makefile.am, scripts/systemd/{nut.target ⇒ nut.target.in}: scripts/systemd/nut.target et al: make it a .in template [#722]

2.99 2024-12-29 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/augeas/nutupsconf.aug.tpl: USB drivers should now accept a `LIBUSB_DEBUG=INTEGER` setting in `ups.conf` [#2616]
- NEWS.adoc, UPGRADING.adoc, conf/ups.conf.sample, conf/upsd.conf.sample, docs/man/ups.conf.txt, docs/man/upsd.conf.txt, server/conf.c: server/conf.c and docs: allow setting STATEPATH via ups.conf [#694]
- NEWS.adoc, conf/ups.conf.sample, docs/man/ups.conf.txt, drivers/main.c: drivers/main.c and docs: allow setting STATEPATH via ups.conf [#694]
- docs/man/upsd.conf.txt, conf/upsd.conf.sample: clarify STATEPATH entanglement of upsd and drivers, and envvar override [#694]

2.100 2024-12-28 Yevgeniy Kuksenko <2882631+ykuksenko@users.noreply.github.com>

- drivers/Makefile.am, drivers/ecoflow-hid.c, drivers/ecoflow-hid.h, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.hwdb: EcoFlow River 3\+ and Delta 3+ support Basic status works (charging, discharging, online, onbattery, ...). Charge level works. Discharge level from app shows correctly. Any sort of control does not seem to work for load or beeper/light. See code comments for details.

2.101 2024-12-25 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/wininit.c: refer to local man (ifdef WITH_DOCS) and website page for nut.exe wrapper [#722]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: smf_setDocLink(): complete the proposed SMF implementation [#722]

2.102 2024-12-24 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: suggest_doc_links(): do not preallocate buf2, ensure use of only basename of a program [#722]
- drivers/upsdrvctl.c: refer to local man (ifdef WITH_DOCS) and website page for this tool [#722]
- scripts/upsdrvsvcctl/upsdrvsvcctl.in: refer to local man and website pages for this tool [#722]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: refer to local man and website pages for this tool [#722]
- clients/upsc.c, clients/upscmd.c, clients/upsrw.c, clients/upslog.c, clients/upsmon.c, clients/upssched.c: refer to local man (ifdef WITH_DOCS) and website page for these tools [#722]
- tools/nutconf/nutconf-cli.cpp: refer to local man (ifdef WITH_DOCS) and website page for the nutconf tool [#722]
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/Makefile.am: refer to local man (ifdef WITH_DOCS) and website page for this tool [#722]

2.103 2024-12-23 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: main(): avoid notification at exit after just showing help
- drivers/main.c: move WIN32 var declarations up in main()
- server/upsd.c: refer to local man (ifdef WITH_DOCS) and website page for the data server [#722]
- server/sockdebug.c, server/pipedebug.c: refer to local man (ifdef WITH_DOCS) and website page for these tools [#722] Reminder: both sources are built as `sockdebug` for different platforms and share the man page.
- NEWS.adoc, common/common.c, drivers/main.c, include/common.h: common/common.c, include/common.h, drivers/main.c: introduce suggest_doc_links() [#722]

2.104 2024-12-22 hajar97 <ehajiyev@gmail.com>

- data/driver.list.in: Update driver.list.in Added report for Greencell PowerProof 2000

2.105 2024-12-22 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/blazer_ser.c, drivers/blazer_usb.c, drivers/main.c, drivers/nutdrv_qx.c, drivers/usbhid-ups.c: drivers/main.c: refer to local man (ifdef WITH_DOCS) and website page for the driver [#722]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: introduce *_setDocLink() to refer to specific driver man pages, provide systemd implementation [#722]

2.106 2024-12-21 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, configure.ac, . . . /nut-driver-enumerator-daemon-activator.path.in, . . . t-driver-enumerator-daemon-activator.service.in, . . . /nut-driver-enumerator-daemon.service.in, scripts/systemd/nut-driver-enumerator.path.in, scripts/systemd/nut-driver-enumerator.se scripts/systemd/nut-driver.target, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in, scripts/systemd/nut.target: scripts/systemd/nut* units: add documentation links [#722]
- scripts/Solaris/nut-driver-enumerator.xml.in, scripts/Solaris/nut-driver.xml.in, scripts/Solaris/nut-monitor.xml.in, scripts/Solaris/nut-server.xml.in: scripts/Solaris/*.xml.in: revise heading comments and documentation links [#722]
- configure.ac: derive NUT_WEBSITE_BASE from PACKAGE_URL [#722]

2.107 2024-12-19 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- scripts/Windows/README.adoc: corrected instructions of pthread installation

2.108 2024-12-19 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_libmodbus.m4: do not detect other libmodbus features if header was not found [#2289] . . . in requested location, e.g. wrong path provided by the `--with-modbus-includes=-I.../include` parameter without the `/modbus` subdirectory.
- m4/nut_check_libavahi.m4, m4/nut_check_libfreeipmi.m4, m4/nut_check_libgd.m4, m4/nut_check_libgpiod.m4, m4/nut_check_libn m4/nut_check_libneon.m4, m4/nut_check_libnetsnmp.m4, m4/nut_check_libnss.m4, m4/nut_check_libopenssl.m4, m4/nut_check_li m4/nut_check_libregex.m4, m4/nut_check_libsystemd.m4, m4/nut_check_libusb.m4: m4/nut_check_lib*.m4: use AC_REQUIRE([N etc, not plain macro calls

2.109 2024-12-18 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/cps-hid.c: cps_fix_report_desc(): complete the original fix-up for input_logmin/input_logmax vs. high voltage transfer [#1245, #2718]
- docs/nut.dict, scripts/Windows/README.adoc: scripts/Windows/README.adoc: pthreads: comment on issues with "timespec" [#2724]
- scripts/Windows/README.adoc: pthreads: built directly by `make`, should not use $BUILD_FLAG
- scripts/Windows/README.adoc: add a note about not-running builds as root
- scripts/Windows/README.adoc: update markup at start of doc

2.110 2024-12-17 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/mge-hid.c: check that KSTAR is the maker of KSTAR_VENDORID hits [#2661]
- drivers/cps-hid.c: cps_fix_report_desc(): take the higher ground [#2718]
- drivers/cps-hid.c: cps_fix_report_desc(): simplify sizeMax now that original error was caught [#2718]
- drivers/hidparser.c, drivers/cps-hid.c: add comments about presumed LogMin/LogMax error origins [#1024, #1512, #2718]

2.111 2024-12-16 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/mge-hid.c, data/driver.list.in, docs/nut.dict, NEWS.adoc, scripts/upower/95-upower-hid.hwdb: added support for 0x09d6:0x00 (KSTAR) UPSes using MGE HID [#2661]
- drivers/cps-hid.c: cps_fix_report_desc(): fix powers of 2 maths [#2718]
- drivers/cps-hid.c: cps_fix_report_desc(): update debug-logging [#2718]
- docs/man/usbhid-ups.txt: warn that (some?) CPS models can not use ondelay [#625] . . . according to support, per https://github.com/-networkupstools/nut/issues/625#issuecomment-1790213635
- NEWS.adoc, UPGRADING.adoc, docs/man/usbhid-ups.txt, drivers/cps-hid.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: drivers/usbh ups.{c,h}, docs/man/usbhid-ups.txt, NEWS.adoc, UPGRADING.adoc: introduce DEFAULT_ONDELAY_CPS and DEFAULT_OFFD on CPS devices [#1394, #432]
- NEWS.adoc, UPGRADING.adoc, docs/man/usbhid-ups.txt, drivers/usbhid-ups.c, drivers/usbhid-ups.h: drivers/usbhid-ups.{c,h}, docs/man/usbhid-ups.txt, NEWS.adoc, UPGRADING.adoc: introduce DEFAULT_POLLFREQ_CPS and suggest pollonly on CPS devices [#1689]
- drivers/usbhid-ups.c: upsdrv_initups(): update comments about logical progression through init
- UPGRADING.adoc: typo fix

2.112 2024-12-13 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/cps-hid.c, NEWS.adoc: cps_fix_report_desc(): address mismatched LogMax for input/output voltages [#1512] Note: not bumping version, as it was done in another commit of same PR #2718
- drivers/cps-hid.c, NEWS.adoc: cps_fix_report_desc(): do actually "set Input Voltage" for a fix [#1245]
- drivers/hidparser.c, drivers/hidtypes.h, NEWS.adoc: track the fact of assumed_LogMax [#1512]
- drivers/cps-hid.c: cps_fix_report_desc(): debug-log if we skipped work, to be clear in troubleshooting
- drivers/cps-hid.c: cps_fix_report_desc(): comment HEX variants of ReportIDs
- NEWS.adoc, drivers/cps-hid.c: drivers/cps-hid.c: cps_fix_report_desc(): line-wrap big comments and debug prints
- NEWS.adoc: regroup "USB-capable drivers generally" entries

2.113 2024-12-12 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: Updated author
- drivers/phoenixcontact_modbus.c: corrected placeholder of fatalx log
- drivers/phoenixcontact_modbus.c: corrected placeholder of fatalx log
- drivers/phoenixcontact_modbus.c: corrected placeholder of fatalx log
- drivers/phoenixcontact_modbus.c: corrected placeholder of fatalx log

2.114 2024-12-12 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usbhid-ups.c, NEWS.adoc: apply disable_fix_report_desc, interruptsize and interruptonly before comm_driver→open_dev() [#1512, #1575]
- docs/nut-names.txt: update markup and a bit of wording
- NEWS.adoc: highlight recent fixes to .circleci/config.yml
- .circleci/config.yml: fetch git tags to help SEMVER look right (optionally) [#1949]
- data/driver.list.in: add Ippon Innova RT 3/1 models [#2712]
- NEWS.adoc: update for phoenixcontact_modbus PR list [#2716]
- drivers/phoenixcontact_modbus.c: fix "Uknown" typo [#2716]
- drivers/phoenixcontact_modbus.c: fix conversion/printing of certain data types [#2716]
- drivers/phoenixcontact_modbus.c: fix trailing whitespace and indentations [#2716]
- drivers/phoenixcontact_modbus.c: constrain DRIVER_VERSION format, add recent author [#2716]

2.115 2024-12-11 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: Removed break after fatalx func.
- drivers/phoenixcontact_modbus.c: corrected placeholder of fatalx log
- drivers/phoenixcontact_modbus.c: Corrected fatalx logs.
- drivers/phoenixcontact_modbus.c: inserted comment for new method and updated version.
- drivers/phoenixcontact_modbus.c: Corrected alarms1 register reading for QUINT4 UPS.
- drivers/phoenixcontact_modbus.c: Added management for different QUINT and QUINT4 UPS models.
- drivers/phoenixcontact_modbus.c: Corrected register concatenation.
- drivers/phoenixcontact_modbus.c: Added part number variable in exit message when it's not recognized.
- drivers/phoenixcontact_modbus.c: First implementation of the new logic to establish UPS model.

2.116 2024-12-10 Viktor Drobot <linux776@gmail.com>

- drivers/nutdrv_qx_innovart31.c: We can use full Blazer claiming and initialization routines now
- drivers/nutdrv_qx_innovart31.c: Giving up on reading firmware and serial number data from UPS
- drivers/nutdrv_qx_innovart31.c: Firmware reading leads to the driver stale state
- drivers/nutdrv_qx_innovart31.c: Checked remaining classic Qx commands (beeper toggle removed as not recognized by hardware). Added firmware version and serial number of UPS. Reorganized readings to minimize data between host and UPS according to the developer docs. Added known input, output and bypass readings as comments for future development (3/3 versions).

2.117 2024-12-10 Jim Klimov <jimklimov+nut@gmail.com>

- .circleci/config.yml: uncomment HOMEBREW_NO_AUTO_UPDATE=1 to cut down pre-build CI overhead for faster turnaround (1hr timeout) [#1579] Currently Homebrew auto-update done before we install anything takes 45-50 minutes, so we often don't have time to complete even configuration for our actual CI tests (subject to CircleCI server farm congestion, I guess). This also bites a big chunk from the monthly opensource credits available for the builds. Note the baseline image currently uses a slightly older Python as well. But the speedup frmo 45\+ to 3.5min is commendable!

2.118 2024-12-09 Viktor Drobot <linux776@gmail.com>

- drivers/nutdrv_qx_innovart31.c: Use battery runtime and charge data from UPS

2.119 2024-12-09 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: add MGE "designator" [#2713]
- drivers/nhs_ser.c: pass buffer sizes as size_t not int [#2692]
- drivers/nhs_ser.c: interpret_pkt_data(): cache ah, pf, va, numbat, vbat and min_input_power in static vars [#2692]
- docs/nut-names.txt: stress that `DOMAIN.CONTEXT.SPEC` suffixes are not complete names
- drivers/nhs_ser.c: upsdrv_updateinfo(): refactor away interpret_pkt_hwinfo() and interpret_pkt_data() logic, separated by domain [#2692] Also rename some data points that do not conform to NUT standards, or drop if redundant.
- drivers/nhs_ser.c: upsdrv_updateinfo(): revise byte-reading loop vs. packet data interpretation; un-indent more code [#2692] Add range-check to not overflow the datapacket[] buffer.

2.120 2024-12-09 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- data/cmdvartab: remove typo
- data/cmdvartab: typo for rerun CI

2.121 2024-12-08 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nhs_ser.c: size porta[] as PATH_MAX [#2692]
- drivers/nhs_ser.c: use strncpy() to init porta[] [#2692]
- drivers/nhs_ser.c: upsdrv_updateinfo(): refactor with reconnect_ups_if_needed() [#2692]
- drivers/nhs_ser.c: upsdrv_updateinfo(): revise reconnections with data-stale related messages and status changes [#2692]
- drivers/nhs_ser.c: upsdrv_updateinfo(): simplify reconnect-check, un-indent main code a bit [#2692] Fixed the retries from being an infinite loop along the way...
- drivers/nhs_ser.c: reshuffle HW init code between upsdrv_initups() and upsdrv_initups() [#2692]
- docs/new-drivers.txt: clarify relation of dstate_addcmd() and upsh.instcmd and upsdrv_initinfo()
- drivers/nutdrv_qx.c: bump DRIVER_VERSION due to addition of innovart31 subdriver [#2712]
- docs/nutdrv_qx-subdrivers.txt, drivers/nutdrv_qx.c, docs/nut.dict: clarify that "subdriver" is for Serial-over-USB dialect, and "protocol" is for Qx dialect [#2712]
- NEWS.adoc: introduced `innovart31` in nutdrv_qx [#2712]

2.122 2024-12-08 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- data/cmdvartab, docs/nut-names.txt: some more vars added
- docs/nut-names.txt: add device.usb.version to nut-names.txt
- data/cmdvartab: add device.x descrptions \+ more to cmdvartab
- data/cmdvartab, docs/nut-names.txt: battery.charger.type description changed
- data/cmdvartab, docs/nut-names.txt: spme missing vars added

2.123 2024-12-06 Viktor Drobot <linux776@gmail.com>

- docs/nut.dict: Fix aspell complaining about InnovaRT
- docs/man/nutdrv_qx.txt, docs/nutdrv_qx-subdrivers.txt, drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_blazer-common.h, drivers/nutdrv_qx_innovart31.c, drivers/nutdrv_qx_innovart31.h: First attempt to add support for Innova RT 3/1

2.124 2024-12-06 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c: upsmon_cleanup(): free(configfile) in the end
- clients/upsmon.c: ups_free(): release ups→status_tokens if needed [#415, #2709]
- tests/NIT/nit.sh: refer to scripts/valgrind for debugging in a sandbox
- tests/NIT/nit.sh: generatecfg_upsmon_trivial() allow to toggle NOTIFYFLAG targets
- common/common.c: Revert "common/common.c: only close_sdbus_once() if we are the same PID that originally opened it [#1070]" This reverts commit a6496a6af1c1b90ca4b836bd0f0cf9c07d6ade3b: close from a child process does not seem to impact parent, but a non-close is a memory leak when such child exits.
- clients/upsmon.c: addups(): start with definitive states of all fields Kudos to `make check-NI-sandbox-devel` and LD_LIBRARY_PATH=`pwd`/clients/.libs valgrind --leak-check=full --show-leak-kinds=all --track-origins=yes ./clients/.libs/upsmon -F
- clients/upsmon.c: redefine_ups(): comment a concern about "pv" changes

2.125 2024-12-05 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: Updated driver version with beta one
- drivers/phoenixcontact_modbus.c: Added NONE value for models enumeration and managed in switch statemets

2.126 2024-12-05 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c: parse_status(): fix releasing of ups→status_tokens [#415, #2709]
- clients/upsmon.c: notify(): clarify (when debug-logging) upsmon-centric messages if upsname==NULL [#415, #2709]
- clients/upsmon.c: change time maths in delay between main loop cycles from time_t to more precise timeval [#1070]
- clients/upsmon.c: report start/end/duration of the "sleepval" delay between main loop cycles [#1070]
- clients/upsmon.c: break the main sub-loop where we check sleep_inhibitor_status also if exit_flag gets raised (e.g. Ctrl\+C during the wait) [#1070]
- common/common.c: only close_sdbus_once() if we are the same PID that originally opened it [#1070]
- common/common.c: debug-log isPreparingForSleep() outcomes (when extremely high verbosity level is on) [#1070]
- common/common.c: refactor upsnotify_suggest_NUT_QUIET_INIT_UPSNOTIFY_once() [#1590, #2136]
- tests/NIT/nit.sh: generatecfg_upsmon_trivial(): refer to NOTIFYCMD=... notifyme-debug where possible [#2709]
- tests/NIT/nit.sh: testcase_sandbox_upsc_query_timer(): add a retry with longer delay [#2709]
- tests/NIT/Makefile.am: allow to pass custom NUT_PORT and NIT_CASE [#2709] ... default the latter to `testgroup_sandbox_u` now (includes the earlier `testcase_sandbox_start_drivers_after_upsd`)
- scripts/misc/notifyme-debug: honour TEMPDIR or TMPDIR set by caller; fall back to /dev/shm or /tmp otherwise [#2709]
- conf/upsmon.conf.sample.in: suggest NOTIFYFLAG for OTHER/NOTOTHER too [#415]

2.127 2024-12-04 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/cps-hid.c, NEWS.adoc: add ups.temperature [#2711] Kudos to Cyber Energy (affiliate of CPS) per https://alioth-lists.debian.net/pipermail/nut-upsdev/2024-December/008069.html

2.128 2024-12-03 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.h, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt: clients/upsmon.h, docs: default "ALARM" message format to two "%s" placeholders [#415]
- clients/upsmon.c: ups_is_alarm(): track if ups.alarm value changed, re-notify [#415]
- clients/upsmon.c: allow to get_var(ups, "alarm"...) and use it in ups_is_alarm() notification [#415]
- docs/new-drivers.txt: in "Status data", stress the life-cycle of `ups.status` flag tokens [#2708]
- NEWS.adoc, clients/upsmon.c, clients/upsmon.h, common/nutconf.cpp, common/nutwriter.cpp, conf/upsmon.conf.sample.in, docs/man/nutconf.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/nut.dict, include/nutconf.hpp, scripts/augeas/nutupsmonconf.aug.in, tools/nutconf/nutconf-cli.cpp: upsmon code, docs, conf: introduce "OTHER"/"NOTOTHER" notifications for unknown tokens in `ups.status` [#415]
- NEWS.adoc, clients/upsmon.c, clients/upsmon.h: clients/upsmon.{c,h}, NEWS.adoc: revise do_notify() to allow passing an extra arg into formatting strings with two "%s" placeholders [#415]
- clients/upsmon.c, NEWS.adoc: optimize parse_status() by not checking further strings if we had a match; report unexpected tokens [#415, #2708]
- drivers/usbhid-ups.c, drivers/netxml-ups.c, NEWS.adoc, UPGRADING.adoc: handle STATUS_BIT(NOBATTERY) to also status_set("RB") [#415]
- clients/upsmon.c, clients/upsmon.h, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/man/upsmon.txt: clients/upsmon.{ docs, conf: apply suggestions from issue #415 discussion adding to PR #2658 changes Previously merged-in the couple of commits from issue https://github.com/networkupstools/nut/issues/415 proposal at https://github.com/networkupstools/nut/-tree/upsmon_alarm for posterity, now cherry-picking some changes and further discussion ideas from mailing list thread at http://lists.alioth.debian.org/pipermail/nut-upsuser/2017-April/010591.html Closes: #415

2.129 2024-12-02 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/mge-hid.c: simplify debug printouts with NUT_STRARG() [#2684, #1737]
- NEWS.adoc, docs/nut.dict, drivers/upsdrvquery.c: drivers/upsdrvquery.c, NEWS.adoc: upsdrvquery_read_timeout(): fix private use of timeval={-1,-1} as select(..., NULL) for indefinite wait [#1922, #2392, #2686, #2670]
- clients/upscmd.c, clients/upsrw.c: clients/ups{rw,cmd}.c: enable use of NUT_DEBUG_LEVEL envvar
- clients/upscmd.c, clients/upsrw.c: clients/ups{rw,cmd}.c: when reporting "OK" without "TRACKING", issue a debug message about its limited usefullness
- data/cmdvartab: document CMDDESC shutdown.default [#2686]
- drivers/dstate.c: revise logging of "Got INSTCMD, but driver lacks a handler" [#2686]

2.130 2024-12-02 Greg Troxel <gdt@lexort.com>

- tests/nutipc_ut.cpp: tests: Do not expect signals to be messages POSIX does not require 1:1 delivery per kill() call. Adjust the test to not require behavior that 1) POSIX does not require and 2) is only probabalistically observed to happen, even if "most of the time".
- include/nutipc.hpp: core ipc: Handle select returning EINTR

2.131 2024-12-02 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: typo space removed

2.132 2024-12-01 desertwitch <24509509+desertwitch@users.noreply.github.com>

- drivers/mge-hid.c: comment regarding ChargerType

2.133 2024-12-01 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/mge-hid.c: restore white-space (TAB indentation and between decl type and varname)
- drivers/mge-hid.c: restore white-space (TAB indentation and between decl type and varname) [#2684]
- docs/snmp-subdrivers.txt: update with snmp_info_default() macro example [#2285]
- docs/new-drivers.txt: quote driver names; note modbus unrelated drivers so far [#50, #1765]
- NEWS.adoc: moved phoenixcontact_modbus update to other drivers [#2689]
- drivers/phoenixcontact_modbus.c: fix use of pragmas for default switch cases [#2689]
- drivers/phoenixcontact_modbus.c: no break after fatalx() [#2689]

2.134 2024-12-01 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add debug message for bypass/eco outside limits
- drivers/mge-hid.c: Fix for bypass/eco when no values or outside of limits

2.135 2024-11-30 Jim Klimov <jimklimov@gmail.com>

- drivers/nhs_ser.c: populate missed explicit method parameter [#2692]

2.136 2024-11-30 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add debug log when enter to eco/bypass modes
- drivers/mge-hid.c: fix eco vars in debug meassage
- drivers/mge-hid.c: Fix for bypass limit In case we dont have Bypass transfer limit variables but still have ability to enter Bypass mode

2.137 2024-11-29 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: Handled default case with error
- drivers/phoenixcontact_modbus.c: Re-implemented default cases.
- drivers/phoenixcontact_modbus.c: Extended comment to "default" label example

2.138 2024-11-29 Jim Klimov <jimklimov@gmail.com>

- NEWS.adoc, configure.ac, docs/man/Makefile.am, docs/man/nhs_ser.txt, docs/nut.dict, drivers/Makefile.am: configure.ac, drivers/Makefile.am, docs/man/Makefile.am, docs/man/nhs_ser.txt, NEWS.adoc: temporarily constrain nhs_ser to Linux-only NUT builds [#2692]

2.139 2024-11-29 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: add usbhid-ups supported Ippon models [#2702]
- drivers/nhs_ser.c: hide upsdrv_updateinfo() debug log of processing at verbosity 3-4_ [#2692]
- drivers/nhs_ser.c: keep debug log of main milestones and errors at verbosity 1, add *func* [#2692]
- drivers/nhs_ser.c: quieter logging in print_pkt_hwinfo() and print_pkt_data() [#2692]
- drivers/nhs_ser.c: log method starting/ending quieter and with use of *func* [#2692]
- drivers/nhs_ser.c: upsdrv_updateinfo(): rename "nhs.**" datapoints into "experimental.nhs.**" namespace [#2692]
- drivers/nhs_ser.c: upsdrv_updateinfo(): FIXME commented - same criteria used for 3 alarms [#2692]
- drivers/nhs_ser.c: memory robustness: strcpy⇒strncpy [#2692]
- drivers/nhs_ser.c: memory robustness: sprintf⇒snprintf [#2692]
- drivers/nhs_ser.c: fix code markup into NUT style [#2692] * indent with TAB characters, * separate declaration type and varname with TAB(s), * use space after comma
- drivers/nhs_ser.c: fix "for (int i. . .)" to use of pre-declared variables [#2692]
- drivers/nhs_ser.c: fix DEFAULLTPERC ⇒ DEFAULTPERC typo in the macro name [#2692]
- drivers/nhs_ser.c: fix comment markup, wrap long lines, inject TABs in structs [#2692] Also drop comments from standalone program legacy now that this driver is an integrated part of NUT codebase.
- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - sprintf() from and to same variable [#2692] nhs_ser.c: In function 'upsdrv_updateinfo': nhs_ser.c:1858:37: error: 'sprintf' argument 3 overlaps destination object 'alarm' [-Werror=restrict] 1858 \| sprintf(alarm,"%s %s",alarm,"|UPS IN BATTERY MODE|"); \| ^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~\
- drivers/nhs_ser.c: upsdrv_updateinfo(): refactor debug of bad mains [#2692]

2.140 2024-11-29 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: change voltage limit setting same as frequency in eco function also
- drivers/mge-hid.c: change voltage limit setting same as frequency
- drivers/mge-hid.c: move NUT_UNUSED_VARIABLE(value); back down
- drivers/mge-hid.c: change the state for debug when no eco transfer limits avalible to use defaults
- drivers/mge-hid.c: change vars in eaton_input_eco_mode_check_range()
- drivers/mge-hid.c: change vars in eaton_input_bypass_check_range()
- data/cmdvartab, docs/nut-names.txt: much clear description for input.transfer.bypass.forced

2.141 2024-11-28 fenugrec <fenugrec@users.sourceforge.net>

- drivers/libusb1.c: fix wrong return value of nut_libusb_get_interrupt() cf github #2401. When global var *interrupt_size* is not set, a transfer size of SMALLBUF (512) is requested when calling libusb_interrupt_transfer(). Our function nut_libusb_get_interrupt() should return the actual transferred size. Otherwise, the caller will attempt to parse any uninitialized data in the buffer after the response. In libusb0.c this was done correctly by using the return value of usb_interrupt_read(). With libusb1, the transferred size is written to tmpbufsize, and should therefore be used as the return val.

2.142 2024-11-28 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: Added pragma statemets as per tip to avoid compiler complains on "default" label in switch statements.

2.143 2024-11-28 Lucas Bocchi <lucas.bocchii@gmail.com>

- drivers/nhs_ser.c: Another miscalculation in battery time duration.
- drivers/nhs_ser.c: Change on line 1936 - Battery voltage hardcoded in 12.0 v

2.144 2024-11-28 Jim Klimov <jimklimov+nut@gmail.com>

- docs/developers.txt, docs/nut.dict: docs/developers.txt: clarify pragmas in switch/case/default vs. enum [#2689, #823]
- NEWS.adoc, drivers/dstate.c: drivers/dstate.c: fflush(stdout) after dstate_dump() [#2695]
- drivers/libusb1.c: nut_libusb_open(): fix if-clause typo to report that no devices were accessible (and none others matched) [#2699]
- NEWS.adoc, drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c, NEWS.adoc: report if some devices WERE accessible but did not match [#2699]

2.145 2024-11-28 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: 9PX added to comments
- drivers/mge-hid.c: add 9PX models also
- drivers/mge-hid.c: change to small chars
- drivers/mge-hid.c: added Eaton 9SX

2.146 2024-11-27 Lucas Bocchi <lucas.bocchii@gmail.com>

- drivers/nhs_ser.c: Error on line 1717, on function to reopen serial in case of problem. We have default values but I set with variable porta and baudrate the correct port and speed.

2.147 2024-11-27 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - float overflow [#2692] CodeQL alert: * Multiplication result converted to larger type High * Multiplication result may overflow *float* before it is converted to *double*.
- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - unused methods [#2692] Hide them away: nhs_ser.c:939:15: error: unused function *strtolow* [-Werror,-Wunused-function] static char
- strtolow(char* s) { ^ nhs_ser.c:902:12: error: unused function *write_serial* [-Werror,-Wunused-function] static int write_serial(int fd, const char * dados, int size) { \^ 2 errors generated.
- docs/man/nhs_ser.txt, drivers/nhs_ser.c: introduce option flags for debug_pkt_raw, debug_pkt_data, debug_pkt_hwinfo [#2692] Also helps avoid dead code and this warning: nhs_ser.c:467:13: error: unused function *print_pkt_data* [-Werror,-Wunused-function] static void print_pkt_data(pkt_data data) { \^
- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - shadowed variables (serial_fd) [#2692]
- drivers/nhs_ser.c: drivers/nhs-nut.c: update © heading [#2692]

- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - comparing floating-points [#2692] nhs_ser.c:1873:74: error: comparing floating point with == or != is unsafe [-Werror,-Wfloat-equal] perc = get_vin_perc("vin_low_warn_perc") == get_vin_perc("vin_low_crit_perc") ? 2 : 1; ~~~~~~~~~~~~~~~~~~~~ \^ ~~~~~~~~~~~~~~~~~~~~\

- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - casting round() to int/long [#2692] This is an odd one, see https://stackoverflow.com/a/43481925/4715872 nhs_ser.c:1865:74: error: cast from function call of type *double* to non-matching type *int* [-Werror,-Wbad-function-cast] dstate_setinfo("ups.realpower","%d",(int)round(vpower)); ^~~~~~\~ The `lrint()` family of methods should be part of C99 and above, returning a `long` approximation of a `double` or `float` argument. Had to adjust dstate_setinfo() parameters from (unsigned) int to long.

- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - variable length array [#2692] nhs_ser.c:897:21: error: variable length array used [-Werror,-Wvla] uint8_t message[size]; ^~\

- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - mixing declarations and code [#2692] nhs_ser.c:904:17: error: mixing declarations and code is incompatible with standards before C99 [-Werror,-Wdeclaration-after-statement] ssize_t bytes_written = write(serial_fd, message,size); \^

- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - shadowed variables [#2692] nhs_ser.c:519:32: error: declaration shadows a variable in the global scope [-Werror,-Wshadow] static int openfd(const char * porta, int BAUDRATE) { ^ nhs_ser.c:247:13: note: previous declaration is here static char porta[1024] = DEFAULTPORT; ^ nhs_ser.c:1943:42: error: declaration shadows a local variable [-Werror,-Wshadow] for (int i = 0; i < 5; i+\+) { ^ nhs_ser.c:1657:18: note: previous declaration is here unsigned int i = 0; \^

- drivers/nhs_ser.c: drivers/nhs-nut.c: fix compiler complaints - static vars/methods and strict parameters [#2692] * Static internal methods and pre-declarations on top of file: nhs_ser.c:1549:14: error: no previous prototype for function *get_va* [-Werror,-Wmissing-prototypes] unsigned int get_va(int equipment) { ^ nhs_ser.c:1549:1: note: declare *static* if the function is not intended to be used outside of this translation unit unsigned int get_va(int equipment) { ^ static * Explicit void args: nhs_ser.c:1571:20: error: this old-style function definition is not preceded by a prototype [-Werror,-Wstrict-prototypes] unsigned int get_ah() { \^

- drivers/Makefile.am: Rename "nhs-nut" to "nhs_ser" follow-up [#2692]

- drivers/nhs_ser.c: update comment about use of "clang --analyze" [#2692]

- data/driver.list.in: update with devices supported by nhs_ser driver [#2692] List extracted from current driver code with grep *strcpy(data.upsdesc* drivers/nhs_ser.c \| sed *s/\^**strcpy(data.upsdesc,"\(.\)".*$/"NHS Sistemas Eletronicos LTDA"\t"ups"\t"2"\t"\1"\t"S*port"\t"nhs_ser"/* \ >> data/driver.list.in

- NEWS.adoc, docs/man/nhs_ser.txt, docs/nut.dict: NEWS.adoc, docs/man/nhs_ser.txt: rephrase naming of devices covered by nhs_ser driver [#2692]

- NEWS.adoc, docs/man/Makefile.am, docs/man/{nhs-nut.txt ⇒ nhs_ser.txt}, drivers/Makefile.am, drivers/{nhs-nut.c ⇒ nhs_ser.c}: Rename "nhs-nut" to "nhs_ser" [#2692]

- docs/man/Makefile.am, docs/man/nhs-nut.txt, docs/nut.dict: docs/man/nhs-nut.txt: introduce new driver manpage [#2692]

- drivers/nhs-nut.c: revise upsdrv_makevartable(): fix help messages [#2692]

- drivers/nhs-nut.c: revise upsdrv_makevartable(): use snprintf() and fix some more markup [#2692]

- drivers/nhs-nut.c: revise upsdrv_makevartable() content and markup [#2692]

- drivers/nhs-nut.c: fix DRIVER_VERSION to double-digits [#2692]

- NEWS.adoc, docs/nut.dict: NEWS.adoc: introduce nhs-nut (sic) driver [#2692]

- drivers/nhs-nut.c: fix upsdrv_shutdown() [#2692]

- drivers/nhs-nut.c: fix trailing whitespace [#2692]

- drivers/nhs-nut.c: fix compiler complaints [#2692] nhs-nut.c: In function ‘mount_hwinfo’: nhs-nut.c:786:5: error: missing initializer for field ‘end_marker’ of ‘pkt_hwinfo’ [-Werror=missing-field-initializers] 786 \| }; \| ^ nhs-nut.c:177:18: note: ‘end_marker’ declared here 177 \| unsigned int end_marker; \| ^~~~\~

- drivers/nhs-nut.c: fix compiler complaints [#2692] Copy-paste typo? nhs-nut.c: In function ‘mount_datapacket’: nhs-nut.c:693:29: error: operation on ‘pktdata.icarregrms_real’ may be undefined [-Werror=sequence-point] 693 \| pktdata.icarregrms_real = pktdata.icarregrms_real = pktdata.icarregrms * 30; \| ~~~~~~~~~~~~~~~~~~~~~~~^~~~~~~\
- drivers/nhs-nut.c: fix compiler complaints [#2692] nhs-nut.c: In function ‘get_bit_in_position’: nhs-nut.c:357:22: error: comparison of integer expressions of different signedness: ‘int’ and ‘size_t’ {aka ‘long unsigned int’} [-Werror=sign-compare] 357 \| if (bit_position >= size * 8) { | ^\~
- drivers/nhs-nut.c: fix compiler complaints [#2692] nhs-nut.c: In function ‘upsdrv_makevartable’: nhs-nut.c:2090:88: error: format ‘%f’ expects argument of type ‘double’, but argument 3 has type ‘int’ [-Werror=format=] 2090 \| sprintf(help,"Voltage In Percentage to calculate warning low level. Default is %0.2f",DEFAULLTPERC); \| ~~^ \| | \| double \| %0.2d etc. for other default macros
- drivers/nhs-nut.c: fix compiler complaints [#2692] nhs-nut.c: In function ‘upsdrv_updateinfo’: nhs-nut.c:1733:53: error: format not a string literal and no format arguments [-Werror=format-security] 1733 \| upsdebugx(1,alarm); | ^~\~
- drivers/nhs-nut.c: fix compiler complaints [#2692] nhs-nut.c:797:29: error: iteration 6 invokes undefined behavior [-Werror=aggressive-loop-optimizations] 797 \| pkthwinfo.status[i] = get_bit_in_position(&datapacket[14],sizeof(datapacket[14]),i,0); \| ~~~~~~~~~~^~~~~~
- drivers/nhs-nut.c: fix compiler complaints [#2692] nhs-nut.c:713:43: error: suggest braces around empty body in an ‘if’ statement [-Werror=empty-body] 713 \| if (pktdata.perc_output > 100); \| ^ nhs-nut.c:713:13: error: this ‘if’ clause does not guard… [-Werror=misleading-indentation] 713 \| if (pktdata.perc_output > 100); | ~ nhs-nut.c:714:17: note: …this statement, but the latter is misleadingly indented
- drivers/nhs-nut.c: fix compiler complaints [#2692] nhs-nut.c:604:59: error: unused parameter ‘size’ [-Werror=unused-parameter] 604 \| pkt_data mount_datapacket(unsigned char * datapacket, int size, double tempodecorrido,pkt_hwinfo pkt_upsinfo) { \| ~~~\ nhs-nut.c:604:72: error: unused parameter ‘tempodecorrido’ [-Werror=unused-parameter] 604 \| pkt_data mount_datapacket(unsigned char * datapacket, int size, double temp
- drivers/nhs-nut.c: fix compiler complaints [#2692] nhs-nut.c: In function ‘print_pkt_data’: nhs-nut.c:464:17: error: zero-length gnu_printf format string [-Werror=format-zero-length] 464 \| upsdebugx(1,""); | ^\~
- drivers/Makefile.am: add nhs-nut to SERIAL_DRIVERLIST [#2692]

2.148 2024-11-27 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- data/cmdvartab, docs/nut-names.txt: more clear description for input.transfer.bypass.forced
- data/cmdvartab: change enable/disable to (enabled or disabled) in cmdvartab

2.149 2024-11-26 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: Removed default case label since clang complains.

2.150 2024-11-26 Lucas Bocchi <lucas.bocchii@gmail.com>

- drivers/nhs-nut.c: Some fixes in 1) Miscalculations of battery voltage and amps 2) Miscalculations in battery capacity 3) Miscalculations in time remaining
- drivers/nhs-nut.c: Function have some errors and again need to re-commit code.
- drivers/nhs-nut.c: Some small fixes in get_bit_in_position()
- drivers/nhs-nut.c: Some minor alterations

2.151 2024-11-25 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: Corrected enum definition.
- NEWS.adoc: Updated NEWS.adoc
- drivers/phoenixcontact_modbus.c: Used enum for model type instead of defines
- drivers/phoenixcontact_modbus.c: Alligned device.model variable
- drivers/phoenixcontact_modbus.c: Review of variable declaration due to clang build failure

2.152 2024-11-25 Lucas Bocchi <lucas.bocchii@gmail.com>

- drivers/nhs-nut.c: First commit of NHS drivers/nhs-nut.c

2.153 2024-11-25 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: fix strcmp

2.154 2024-11-24 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: Avoid to use uint32_t* reading more than one modbus address and corrected alarm trigger (wrong bit used)

2.155 2024-11-24 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: change getinfo for better results

2.156 2024-11-23 RikyPlaza <158032745+RikyPlaza@users.noreply.github.com>

- drivers/phoenixcontact_modbus.c: First review of the driver for pull request #2689

2.157 2024-11-23 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: set value to unused
- data/cmdvartab, docs/nut-names.txt: add info to nut-names,cmdvartab
- drivers/mge-hid.c: cosmetic fix
- drivers/mge-hid.c: rename ecomode.auto.start to ecomode.start.auto
- drivers/mge-hid.c: remove unneeded code from function
- drivers/mge-hid.c: typo fixed
- drivers/mge-hid.c: finalise the function
- drivers/mge-hid.c: remove static from vars
- drivers/mge-hid.c: drop down function for fix
- drivers/mge-hid.c: fix static
- drivers/mge-hid.c: fix if
- drivers/mge-hid.c: more work for function

2.158 2024-11-22 RikyPlaza <rikyrod2001@gmail.com>

- drivers/phoenixcontact_modbus.c: Added management for newer models which have different modbus addresses. Choice is made basing on firmware version.

2.159 2024-11-22 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: str fix
- drivers/mge-hid.c: comments added
- drivers/mge-hid.c: ecomode.auto.start added trying to automate enter to ECO Mode NOT FINISHED !!
- drivers/mge-hid.c: ecomode.auto.start added

2.160 2024-11-21 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c, drivers/usbhid-ups.h: comments changes
- drivers/mge-hid.c: more small comments changes
- docs/nut-names.txt: fix again
- docs/nut-names.txt: fix nut-names.txt

2.161 2024-11-20 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/app/NUT-Monitor: improve portability (especially in testing) by not relying on only shebang
- scripts/python/app/NUT-Monitor-py2gtk2.in, scripts/python/app/NUT-Monitor-py3qt5.in: scripts/python/app/NUT-Monitor-py3qt5.in and NUT-Monitor-py2gtk2.in: if SCRIPTDIR/../module/PyNUT.py exists, import it preferentially

2.162 2024-11-20 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: small comments added
- drivers/mge-hid.c: small comments change
- drivers/usbhid-ups.h: small comment added
- drivers/usbhid-ups.c, drivers/usbhid-ups.h: add ess mode
- drivers/mge-hid.c: small comments change
- data/cmdvartab, docs/nut-names.txt, drivers/mge-hid.c: rename input.transfer.forced to input.transfer.bypass.forced

2.163 2024-11-19 desertwitch <24509509+desertwitch@users.noreply.github.com>

- drivers/mge-hid.c: reset ABM path when ABM not enabled

2.164 2024-11-19 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: do_loop_shutdown_commands(): handle "shutdown.default" as upsdrv_shutdown() in main loop too [#2670]
- drivers/dstate.c, drivers/main.c, drivers/main.h, drivers/skel.c: Revert "drivers/main.{c,h}, drivers/dstate.c: introduce main_instcmd_fa so drivers might implement their own "shutdown.default" at will [#2670]" This reverts commit 25250b02aea4e31ba20a17a33e6cf22cfa too messy in logs where driver.instcmd() think they are last in stack.
- drivers/main.c: move do_forceshutdown handling to be after upsdrv_initinfo() where we register INSTCMD handlers [#2670]
- drivers/adelsystem_cbi.c, drivers/al175.c, drivers/apc_modbus.c, drivers/apcsmart-old.c, drivers/apcsmart.c, drivers/apcupsd-ups.c, drivers/asem.c, drivers/bcmxcp.c, drivers/belkin.c, drivers/belkinunv.c, drivers/bestfcom.c, drivers/bestfortress.c, drivers/bestuferrups.c, drivers/bestups.c, drivers/bicker_ser.c, drivers/blazer.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dummy-ups.c, drivers/etapro.c, drivers/everups.c, drivers/gamatronic.c, drivers/generic_gpio_common.c, drivers/generic_modbus.c, drivers/genericups.c, drivers/huawei-ups2000.c, drivers/hwmon_ina219.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/liebert-esp2.c, drivers/liebert-gxe.c, drivers/liebert.c, drivers/macosx-ups.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-utalk.c, drivers/microdowell.c, drivers/microsol-common.c, drivers/netxml-ups.c, drivers/nut-ipmipsu.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c, drivers/optiups.c, drivers/phoenixcontact_modbus.c, drivers/pijuice.c, drivers/powercom.c, drivers/powerman-pdu.c, drivers/powerpanel.c, drivers/rhino.c, drivers/richcomm_usb.c, drivers/riello_ser.c, drivers/riello_usb.c, drivers/safenet.c, drivers/skel.c, drivers/sms_ser.c, drivers/snmp-ups.c, drivers/socomec_jbus.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/usbhid-ups.c, drivers/victronups.c: drivers/*.c: simplify upsdrv_shutdown() back, as only "shutdown.default" implementations again [#2670]
- drivers/main.c: update some comments [#2670]
- drivers/main.c, drivers/main.h: drivers/main.{c,h}: introduce MAX_SDCOMMANDS_DEPTH for do_loop_shutdown_commands() [#2670]
- drivers/dstate.c, drivers/main.c, drivers/main.h: drivers/main.{c,h}, drivers/dstate.c: introduce main_instcmd_fallback() so drivers might implement their own "shutdown.default" at will [#2670]
- drivers/main.c: drivers/main.{c,h}: call upsdrv_shutdown_sdcommands_or_default() not default upsdrv_shutdown() as the implementation of forceshutdown() and "driver.killpower" INSTCMD (e.g. via `drivername -k`) [#2670]
- drivers/main.c, drivers/main.h: drivers/main.{c,h}: rename upsdrv_shutdown_default() ⇒ upsdrv_shutdown_sdcommands_or_default less ambiguously [#2670]
- drivers/main.c: do_loop_shutdown_commands(): shortcut for "shutdown.default" support [#2670]
- drivers/main.c: implement INSTCMD "shutdown.default" as a way to call upsdrv_shutdown() in any driver [#2670]
- drivers/main.c: update some comments

2.165 2024-11-19 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- data/cmdvartab, docs/nut-names.txt: change rest bypass to Bypass
- docs/nut-names.txt: bypass to Bypass in nut-names.txt
- data/cmdvartab, docs/nut-names.txt: added to cmdvartab and nut-names.txt
- drivers/mge-hid.c: added input.transfer.bypass.overload and input.transfer.bypass.outlimits
- drivers/mge-hid.c: added input.bypass.switchable

2.166 2024-11-18 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/man/ups.conf.txt, docs/nut-names.txt, drivers/main.c, drivers/main.h: drivers/main.{c,h}, docs: introduce `shutdown.default` INSTCMD concept and upsdrv_shutdown_default() shared method [#2670]
- drivers/powercom.c: drop checks for HAVE_*ATTRIBUTE*NORETURN in instcmd() [#2670]
- drivers/ivtscd.c: comment about upsdrv_shutdown() oddness in this driver [#2670]
- NEWS.adoc, drivers/adelsystem_cbi.c, drivers/al175.c, drivers/apc_modbus.c, drivers/apcsmart-old.c, drivers/apcsmart.c, drivers/apcu ups.c, drivers/asem.c, drivers/bcmxcp.c, drivers/belkin.c, drivers/belkinunv.c, drivers/bestfcom.c, drivers/bestfortress.c, drivers/bestuferrups.c, drivers/bestups.c, drivers/bicker_ser.c, drivers/blazer.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dummy-ups.c, drivers/etapro.c, drivers/everups.c, drivers/gamatronic.c, drivers/generic_gpio_common.c, drivers/generic_modbus.c, drivers/genericups.c, drivers/huawei-ups2000.c, drivers/hwmon_ina219.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/liebert-esp2.c, drivers/liebert-gxe.c, drivers/liebert.c, drivers/macosx-ups.c, drivers/main.c, drivers/main.h, drivers/masterguard.c, drivers/metasys.c, drivers/microdowell.c, drivers/microsol-common.c, drivers/netxml-ups.c, drivers/nut-ipmipsu.c, drivers/nutdrv_atcl_usb.c drivers/nutdrv_qx.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c, drivers/optiups.c, drivers/phoenixcontact_modbus.c, drivers/pijuice.c, drivers/powercom.c, drivers/powerman-pdu.c, drivers/powerpanel.c, drivers/rhino.c, drivers/richcomm_usb.c, drivers/riello_ser.c, drivers/riello_usb.c, drivers/safenet.c, drivers/skel.c, drivers/sms_ser.c, drivers/snmp-ups.c, drivers/socomec_jbus.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/usbhid-ups.c, drivers/victronups.c: drivers/*.c, drivers/main.h: introduce and use a common handling_upsdrv_shutdown flag to exit or not after upsdrv_shutdown() and individual power-state related INSTCMDs [#2670]
- drivers/al175.c, drivers/apcupsd-ups.c, drivers/asem.c, drivers/bcmxcp.c, drivers/bicker_ser.c, drivers/blazer.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dummy-ups.c, drivers/generic_gpio_common.c, drivers/generic_modbus.c, drivers/genericups.c, drivers/huawei-ups2000.c, drivers/hwmon_ina219.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/liebert.c, drivers/macosx-ups.c, drivers/main.c, drivers/netxml-ups.c, drivers/nut-ipmipsu.c, drivers/nutdrv_qx.c, drivers/phoenixcontact_modbus.c, drivers/powercom.c, drivers/powerman-pdu.c, drivers/riello_ser.c, drivers/riello_usb.c, drivers/safenet.c, drivers/skel.c, drivers/sms_ser.c, drivers/snmp-ups.c, drivers/socomec_jbus.c, drivers/usbhid-ups.c: drivers/*.c: use common EF_EXIT_FAILURE and EF_EXIT_SUC arg values for set_exit_flag(int) methods [#2670]
- include/common.h, docs/new-drivers.txt, NEWS.adoc: define common EF_EXIT_FAILURE and EF_EXIT_SUCCESS for set_exit_flag(int) methods [#2670]
- drivers/usbhid-ups.c: update to use "sdcommands" (if customized by user), by default chain the originally used sequence in upsdrv_shutdown() [#2670]
- drivers/victronups.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/upscode2.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/tripplitesu.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/tripplite_usb.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/tripplite.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/solis.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/socomec_jbus.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/snmp-ups.c: update to use "sdcommands" (if customized by user), by default chain the originally used sequence in upsdrv_shutdown() [#2670]
- drivers/adelsystem_cbi.c, drivers/apc_modbus.c, drivers/generic_modbus.c, drivers/netxml-ups.c, drivers/nut-ipmipsu.c, drivers/phoenixcontact_modbus.c, drivers/powerman-pdu.c, drivers/snmp-ups.c: drivers/*.c: for networked drivers (snmp, netxml, IPMI, modbus/TCP) comment in upsdrv_shutdown() some limitations of the media that networked UPS-shutdown may not be generally possible in an endgame [#2770]
- drivers/sms_ser.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/skel.c: update to use "sdcommands" (if customized by user) [#2670]

- drivers/safenet.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/riello_usb.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/riello_ser.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/richcomm_usb.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.return"); newly support INSTCMD at all [#2670]
- drivers/rhino.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/powerpanel.c: drivers/powerp*.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/powerman-pdu.c: drivers/powerman.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/powercom.c: update to use "sdcommands" (if customized by user) [#2670]

2.167 2024-11-18 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: change double to %.1f of voltage and frequency
- drivers/mge-hid.c: add debug log in case out of limits for bypass/eco
- drivers/mge-hid.c: comment added
- drivers/mge-hid.c: rename eco function

2.168 2024-11-17 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/pijuice.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.stayoff"); newly support INSTCMD at all [#2670]
- drivers/phoenixcontact_modbus.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/optiups.c: update to use "sdcommands" (if customized by user) [#2670]

2.169 2024-11-16 Jim Klimov <jimklimov@gmail.com>

- drivers/usbhid-ups.c: report unhandled negative HIDGetEvents() return values [#2681]
- NEWS.adoc, docs/man/usbhid-ups.txt, drivers/usbhid-ups.c, include/nutconf.hpp: drivers/usbhid-ups.c: fix fallout of #2671 and complete the feature with optional `interrupt_pipe_no_events_tolerance` setting [#2681]

2.170 2024-11-16 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/oneac.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/nutdrv_qx.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/nutdrv_siemens_sitop.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/nutdrv_atcl_usb.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.stayoff"); newly support INSTCMD at all [#2670]
- drivers/nut-ipmipsu.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/netxml-ups.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/microsol-apc.c, drivers/microsol-common.c: drivers/microsol*.c: update to use "sdcommands" (if customized by user) [#2670]

- drivers/microdowell.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/metasys.c: update to use "sdcommands" (if customized by user) [#2670]
- NEWS.adoc: fix for upsnotify references

2.171 2024-11-15 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/masterguard.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.return"); newly support INSTCMD at all [#2670]
- drivers/macosx-ups.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/liebert.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/liebert-gxe.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/liebert-esp2.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/ivtscd.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/isbmex.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.stayoff"); newly support INSTCMD at all [#2670]
- drivers/hwmon_ina219.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/huawei-ups2000.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/genericups.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/generic_modbus.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.stayoff") [#2670]
- drivers/generic_gpio_common.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/gamatronic.c: fix misplaced upslogx(1, ...) by upsdebugx()
- drivers/gamatronic.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.return"); newly support INSTCMD at all [#2670]
- drivers/etapro.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.return") [#2670]
- NEWS.adoc, common/common.c, docs/nut.dict, include/common.h: common/common.c, include/common.h: follow-up for `upsnotify()` [#1590, #2136] * introduce `str_upsnotify_state()` for meaningful debug log messages; * suggest to `export NUT_QUIET_INIT_UPSNOTIFY=true` where we "will not spam more about it" for systems that do not currently expect to have notification support or need
- NEWS.adoc: document usbhid-ups fix for 0 HID Objects and lock-up on some devices [#2671] * Grew from https://github.com/-user-attachments/files/17646606/0001-apc-fix.patch.txt proposed at https://github.com/networkupstools/nut/issues/2644#issuecomme 2459538691

2.172 2024-11-15 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: fix commands func
- drivers/mge-hid.c: add check range for eco/bypass commands

2.173 2024-11-14 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/dummy-ups.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/clone.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/clone-outlet.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/blazer.c, drivers/blazer_ser.c, drivers/blazer_usb.c: drivers/blazer*.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/bicker_ser.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/bestups.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/bestuferrups.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.return"); newly support INSTCMD at all [#2670]
- drivers/bestfortress.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.return") [#2670]
- drivers/bestfcom.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.return"); newly support INSTCMD at all [#2670]
- drivers/belkinunv.c: update to use "sdcommands" (if customized by user); revise warning message [#2670]
- drivers/belkin.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.return") [#2670]
- drivers/bcmxcp.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/asem.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/apcupsd-ups.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/apcsmart.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/apcsmart-old.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/apc_modbus.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/al175.c: update to use "sdcommands" (if customized by user) [#2670]
- drivers/adelsystem_cbi.c: update to use "sdcommands" and move logic from upsdrv_shutdown() to upscmd("shutdown.stayoff") [#2670]
- drivers/everups.c: update to use "sdcommands" and have an instcmd() at all [#2670]
- drivers/mge-utalk.c: update to use "sdcommands" [#2670]
- drivers/mge-hid.c: bump subdriver version for added ECO code [#2637]
- drivers/mge-hid.c: drop ECO/ABM-related changes from PR #2637 (revised in later PR)
- clients/status.h: lower severity of ECO state [#2637]
- drivers/mge-hid.c: reshuffle whitespace/markup of ECO code to same standard as around [#2637]

2.174 2024-11-12 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: new distros' clang-medium warnings want -Wno-nullable-to-nonnull-conversion flag
- drivers/apc_modbus.c: actually, report USB support (also) in DRIVER_NAME [#2666]
- configure.ac, NEWS.adoc, UPGRADING.adoc: reshuffle defaulting of --with-modbus\+usb=yes and fix a typo checking --with-drivers there [#2666]
- NEWS.adoc, UPGRADING.adoc: NEWS.adoc: document fixes for libmodbus\+libusb support [#2666]
- drivers/apc_modbus.c: report (in debug traces) whether USB-capable libmodbus was used to build this driver [#2666]
- configure.ac, docs/configure.txt: configure.ac: introduce --with-modbus\+usb option to require USB-capable libmodbus [#2666]
- configure.ac: report "Modbus drivers" as plural [#2676]
- configure.ac: report if building modbus\+usb [#2666]
- m4/nut_check_libmodbus.m4: try re-detecting libmodbus support for libusb adding its CFLAGS and LIBS into the loop [#2666]
- docs/config-prereqs.txt: update Debian/Ubuntu/TermUX with explicit binutils (for ldd) [#2673]
- NEWS.adoc, configure.ac, m4/nut_report_feature.m4: configure.ac, m4/nut_report_feature.m4: group lines of first section better with NUT_REPORT_FEATURE, NUT_REPORT_DRIVER, NUT_REPORT_PROGRAM [#2676]

2.175 2024-11-12 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add ChargerType to ABM Table

2.176 2024-11-11 Jim Klimov <jimklimov@gmail.com>

- clients/Makefile.am: consider LIBSSL_LDFLAGS_RPATH [#2674]
- m4/nut_check_libnss.m4: experiment more with LIBSSL_LDFLAGS_RPATH on Solarish platforms [#2674]
- drivers/Makefile.am, server/Makefile.am, tools/nut-scanner/Makefile.am: server/Makefile.am, drivers/Makefile.am: consider LIBSSL_LDFLAGS_RPATH also [#2674]

2.177 2024-11-10 Jim Klimov <jimklimov@gmail.com>

- ci_build.sh: OpenIndiana and 32-bit libgd, do not only check about that situation with GCC [#2673]
- m4/nut_check_libnetsnmp.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libneon.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libmodbus.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libgpiod.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libavahi.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libwrap.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]

- m4/nut_check_libusb.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libsystemd.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libregex.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libpowerman.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libopenssl.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libnss.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libltdl.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libfreeipmi.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libgd.m4: convert to use depCFLAGS etc. and mix them with build-common CFLAGS etc. for target-platform-relevant checks [#2673]
- m4/nut_check_libgd.m4: in test program, check also the gdImageString() [#2673]

2.178 2024-11-10 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, conf/ups.conf.sample, docs/man/ups.conf.txt, docs/nut.dict, drivers/main.c, drivers/main.h: Introduce "sdcommands" setting for all drivers [#2670]

2.179 2024-11-10 Jim Klimov <jim@jimklimov.com>

- NEWS.adoc, docs/config-prereqs.txt, docs/nut.dict: NEWS.adoc, docs/config-prereqs.txt: document solutions for #2673 and #2674
- configure.ac, m4/nut_check_libnss.m4, m4/nut_check_libopenssl.m4, tools/nut-scanner/Makefile.am: m4/nut_check_libnss.m4, tools/nut-scanner/Makefile.am, etc: track LIBSSL_LDFLAGS_RPATH (custom on Solaris/illumos) [#2674]

2.180 2024-11-09 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt: update Mozilla NSS notes for OpenIndiana and OmniOS
- ci_build.sh: more CI clues to recognize target bitness

2.181 2024-11-08 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: update for OpenIndiana packaging of Mozilla NSPR
- docs/config-prereqs.txt: extra header-nss package in OpenIndiana 2024.x
- ci_build.sh: revise build of CGI on OI (troublesome with 32-bit variant nowadays)

2.182 2024-11-06 Michał Bogdziewicz <michal@bogdziewicz.xyz>

- drivers/usbhid-ups.c: handle zero HID events with reconnection

2.183 2024-11-05 Jim Klimov <jimklimov+nut@gmail.com>

- docs/ci-farm-lxc-setup.txt, docs/config-prereqs.txt, docs/images/ci/jenkins-nut.txt, docs/nut.dict: docs/config-prereqs.txt, docs/ci-farm-lxc-setup.txt et al: update for NUT CI farm baseline JDK17 (per Jenkins core requirements since autumn 2024)

2.184 2024-11-03 William Goodspeed <86338960+goodspeed34@users.noreply.github.com>

- drivers/ydn23.h: fix bad lchksum Fix a bad checksum in length field. However, 'liebert-gxe' was not affected because the frame never exceeds 2\^4-1.

2.185 2024-10-28 desertwitch <24509509+desertwitch@users.noreply.github.com>

- drivers/mge-hid.c: improve path decisions and comments

2.186 2024-10-28 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: remove unused eaton_abm_charger_type_fun()
- drivers/mge-hid.c: add UPS.BatterySystem.Charger.ChargerType to abm table

2.187 2024-10-27 desertwitch <24509509+desertwitch@users.noreply.github.com>

- drivers/mge-hid.c: improve debug and enabled-ness
- drivers/mge-hid.c: remove ABM_ENABLED_TYPE
- drivers/mge-hid.c: explicit cast doubles to integers
- drivers/mge-hid.c: refactor, treat ABM unknown as disabled

2.188 2024-10-27 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: added comment
- drivers/mge-hid.c: remove comment
- drivers/mge-hid.c: more clear comments for charger modes
- drivers/mge-hid.c: typo in comment
- drivers/mge-hid.c: make abm charger tables better look

2.189 2024-10-23 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add info for Note ABM
- drivers/mge-hid.c: typo in commment
- drivers/mge-hid.c: update and clean code for statuses for easy to read and work
- drivers/mge-hid.c: make code looks better

2.190 2024-10-22 Jim Klimov <jimklimov+nut@gmail.com>

- docs/acknowledgements.txt: PCM/Powercom has a link back to NUT, nice!
- docs/asciidoc.conf: support anchors in PDF
- docs/acknowledgements.txt: use 4th arg to linkdoc specifically for HTML-Chunked section file names
- docs/asciidoc.conf: introduce 4th arg to linkdoc specifically for HTML-Chunked section file names
- docs/acknowledgements.txt: adapt reference to anchor in README to different renderers
- docs/acknowledgements.txt: use "linkdoc" instead of "linksingledoc" (nut-website does not deliver single-HTML versions)

2.191 2024-10-22 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: remove dischrg in ups.status when on battery for 9E Model
- drivers/mge-hid.c: fix again
- drivers/mge-hid.c: fix if
- drivers/mge-hid.c: Fix again
- drivers/mge-hid.c: Fix Typo
- drivers/mge-hid.c: add possibly fix for 9E not chaging status when battery.charge < 100% , also avoid using same paths

2.192 2024-10-21 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/mge-hid.c: bump version for beeper changes
- docs/nut.dict: update for recent edits

2.193 2024-10-21 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: change back to ABM_UNKNOWN and use only BOOL chrg/dschrg (eaton_charging_info(),eaton_discharging_inf func to make same as was in original code for Constant Charge

2.194 2024-10-20 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: add linksrcdoc and suggestsrcdoc macros
- NEWS.adoc: beeper support with MGE HID [#2662]
- UPGRADING.adoc: document ALARMCRITICAL setting [#2658]
- INSTALL.nut.adoc: fix markup for linksrcdoc to GH-compatible macro call . . . and use proper new extensions
- docs/ci-farm-lxc-setup.txt: fix text around linksrcdoc
- docs/asciidoc.conf: fix anchored linkdoc for chunked-HTML (with anchors becoming filenames)
- docs/asciidoc.conf: refactor repetitive text with suggestsrcdoc
- docs/asciidoc.conf: define linksrcdoc after its consumers and do not refer to "link" macro anymore
- Makefile.am: maintainer-asciidocs: port POSIX-shell replace_all() to help with backslashes
- INSTALL.nut.adoc, README.adoc: Update NUT documentation sources with current docs/asciidoc-vars.conf: 4baaac1d4 (2024-10-20)

- docs/acknowledgements.txt: experiment with 3-argument linksingledoc rendering
- INSTALL.nut.adoc, docs/ci-farm-lxc-setup.txt: experiment with linksrcdoc and 3-argument linkdoc rendering
- docs/asciidoc-vars.conf: define linksrcdoc with top_srcdir in th eloop
- docs/asciidoc-vars.conf: try defining linksrcdoc macro
- docs/asciidoc.conf: add linksrcdoc macro; extend definition of linkdoc and linksingledoc macros with optional reference to NUT source text document
- docs/asciidoc.conf: update comments about macro definition per se

2.195 2024-10-20 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add comment
- drivers/mge-hid.c: change back to `ABM_DISABLED`

2.196 2024-10-19 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: set `ABM_UNKNOWN` for test ups.status
- drivers/mge-hid.c: add `advanced_battery_mode` flag for not overwrite `advanced_battery_monitoring` if eaton_abm_e was runned
- drivers/mge-hid.c: add comment
- drivers/mge-hid.c: set `advanced_battery_monitoring to disable` in case of `advanced_battery_monitoring != ABM`
- drivers/mge-hid.c: change debug message
- drivers/mge-hid.c: comment change
- drivers/mge-hid.c: add debug for set advanced_battery_type

2.197 2024-10-18 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: fix again
- drivers/mge-hid.c: typo fix
- drivers/mge-hid.c: fixes
- drivers/mge-hid.c: add eaton_abm_enabled_type_info()
- drivers/mge-hid.c: typo fix
- drivers/mge-hid.c: add eaton_abm_charger_type_fun()
- drivers/mge-hid.c: add eaton_abm_charger_type_fun()
- drivers/mge-hid.c: change if also in eaton_abm_enabled_fun()
- clients/status.h: change severity to 1 instead 2
- drivers/mge-hid.c: change back to `if (dstate_getinfo("battery.charger.type"))`
- drivers/mge-hid.c: change all status same as original was \+ add ABM_ENABLED_TYPE

2.198 2024-10-17 yonesmit <yonesmit@gmail.com>

- drivers/mge-hid.c: Update mge-hid.c
- drivers/mge-hid.c: Update mge-hid.c

2.199 2024-10-17 desertwitch <24509509+desertwitch@users.noreply.github.com>

- clients/upsmon.c: additional debug messages for alarm states

2.200 2024-10-17 Jim Klimov <jimklimov+nut@gmail.com>

- docs/ci-farm-lxc-setup.txt: fix asciidoc markup for nested paragraphs in indented lists

2.201 2024-10-17 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add back missing advanced_battery_monitoring=value;
- drivers/mge-hid.c: try simple eaton_abm_enabled_fun()
- drivers/mge-hid.c: int to double
- drivers/mge-hid.c: fix declaration
- drivers/mge-hid.c: fix eaton_abm_enabled_fun()

2.202 2024-10-16 desertwitch <24509509+desertwitch@users.noreply.github.com>

- NEWS.adoc: fix typo regarding alarm handling
- NEWS.adoc: adapt for broader scope of alarm handling
- tools/nutconf/nutconf-cli.cpp: add alarm notifiers
- scripts/python/app/NUT-Monitor-py2gtk2.in: add alarm status
- scripts/python/app/NUT-Monitor-py3qt5.in: add alarm status
- scripts/augeas/nutupsmonconf.aug.in: add alarm notifiers
- include/nutconf.hpp: add alarm notifiers
- docs/man/nutconf.txt: add alarm notifiers
- common/nutconf.cpp, common/nutwriter.cpp: add alarm notifiers
- clients/status.h: add alarm status

2.203 2024-10-16 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: battery.charger.type.status added
- drivers/mge-hid.c: same for eaton_abm_chrg_dischrg_info()
- drivers/mge-hid.c: put battery.charger.status \+ battery.charger.mode and battery.charger.status for bath in one functions
- drivers/mge-hid.c: add eaton_abm_chrg_dischrg_status_fun()
- drivers/mge-hid.c: added battery.charger.abm.status for UPS.BatterySystem.Charger.Status

- drivers/mge-hid.c: add eaton_abm_status_fun()
- drivers/mge-hid.c: fix ABM Table
- drivers/mge-hid.c: some try for add battery.charger.status \+ battery.charger.mode
- drivers/mge-hid.c: add `battery.charger.type`

2.204 2024-10-15 desertwitch <24509509+desertwitch@users.noreply.github.com>

- docs/man/upsmon.txt: make alarm notifiers consistent
- docs/man/upsmon.conf.txt: add alarm settings
- docs/man/upsmon.txt: add alarm settings
- docs/nut.dict: add alarm-related words
- conf/upsmon.conf.sample.in: add alarm settings
- NEWS.adoc: add upsmon alarm handling

2.205 2024-10-14 desertwitch <24509509+desertwitch@users.noreply.github.com>

- clients/upsmon.c, clients/upsmon.h: add alarm handling

2.206 2024-10-14 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- docs/nut-names.txt: change to `on` in nut-names.txt also
- drivers/mge-hid.c: change some values for bypass/eco

2.207 2024-10-13 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- data/cmdvartab, docs/nut-names.txt: `ecocontrol` change description
- docs/nut-names.txt: change nut-names.txt also
- drivers/mge-hid.c: change eco/bypass values to avoid `ERR TOO-LONG`

2.208 2024-10-12 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add comment
- drivers/mge-hid.c: fix upsdebugx
- drivers/mge-hid.c: check freq limit in separate block for eaton_input_bypass_check_range()
- drivers/mge-hid.c: check freq limit in separate block in eco mode
- drivers/mge-hid.c: add function for check eco range
- drivers/mge-hid.c: change comments sign
- drivers/mge-hid.c: add frequency default in case no value

2.209 2024-10-11 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: announce ECO mode concept support [issue #2495, PR #2637]
- scripts/python/app/NUT-Monitor-py2gtk2.in, scripts/python/app/NUT-Monitor-py3qt5.in: scripts/python/app/NUT-Monitor-*: add reporting for ECO status [#2367]
- clients/upsmon.c, clients/upsmon.h, common/nutconf.cpp, common/nutwriter.cpp, conf/upsmon.conf.sample.in, docs/man/upsmon.co docs/man/upsmon.txt, docs/nut.dict, include/nutconf.hpp, scripts/augeas/nutupsmonconf.aug.in, tools/nutconf/nutconf-cli.cpp: upsmon (sources, docs, config samples, C+\+ nutconf support): add tracking and reporting for ECO status [#2367]
- clients/status.h: add an entry for ECO status [#2367]
- docs/nut.dict: update for changes in docs/nut-names.txt [#2495, #2637]

2.210 2024-10-11 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add freq to function comment
- drivers/mge-hid.c: add frequency range check to eaton_input_bypass_check_range()
- drivers/mge-hid.c: move declaration uppper
- drivers/mge-hid.c: fix again upsdebugx
- drivers/mge-hid.c: fix typo
- drivers/mge-hid.c: more details for debugx \+ move declaration up
- drivers/mge-hid.c: fix2 debugx
- drivers/mge-hid.c: fix for upsdebugx
- drivers/mge-hid.c: function to up for definition
- drivers/mge-hid.c: fix3 eaton_input_bypass_check_range()
- drivers/mge-hid.c: add define values
- drivers/mge-hid.c: fix3 eaton_input_bypass_check_range()
- drivers/mge-hid.c: fix2 eaton_input_bypass_check_range()
- drivers/usbhid-ups.c: disable eco alarm
- drivers/mge-hid.c: rename to eaton_input_bypass_check_range()
- drivers/mge-hid.c: fix eaton_check_bypass_range()
- drivers/mge-hid.c: fix for eaton_check_bypass_range()
- drivers/mge-hid.c: add eaton_check_bypass_range() for check bypass limit

2.211 2024-10-10 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: input.bypass.switch.off up to 12 becose return 11 bytes

2.212 2024-10-09 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- docs/nut-names.txt: added values to nut-names
- data/cmdvartab, drivers/mge-hid.c: add values to cmdvartab \+ change to bypass.sart/stop instead bypass.on/off
- drivers/mge-hid.c, drivers/usbhid-ups.c: rename to ECO(HE) mode! fix comments

2.213 2024-10-08 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: Add Salicru ONE 900VA report with nutdrv_qx [#1623]
- data/driver.list.in: Add Greencell 2000VA report with nutdrv_qx [#1673] Closes: #1673
- docs/Makefile.am, docs/images/ci/ci-root.css: docs/images/ci/ci-root.css: Introduce a root NUT CI farm CSS file to include others (tracked in different repos)
- docs/images/ci/jenkins-nut.css: update comments, add a style for Customizable Header plugin with DigitalOcean logo
- docs/man/usbhid-ups.txt: battery.runtime=65535 troubleshooting [#731, #1740 et al]

2.214 2024-10-07 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: Add APC Back-UPS BK650M2-CH report with usbhid-ups [#1970]
- docs/man/usbhid-ups.txt: extra comments about CPS offdelay [#578] Closes: #578
- data/driver.list.in: Add NetVision U4BC02CB00NY100 report with snmp-ups [#1732] Closes: #1732
- data/driver.list.in: Add APC Smart-UPS 5000 RM report with snmp-ups [#1559]
- data/driver.list.in: Add Liebert GXT4-1500RT120 report [nut-ddl#42]
- data/driver.list.in: Add Powermatic Cleanline L-1000C report [nut-ddl#43]
- data/driver.list.in: Add APC Back-UPS ES 850G2 reports [nut-ddl#40]
- data/driver.list.in: Add Techly 1000VA (very basic info so far) [#2651]
- data/driver.list.in: Add 2E PS1000L reports [nut-ddl#41]

2.215 2024-10-07 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: comment added for . . . forced
- drivers/mge-hid.c: remove nfo_lkp_t eaton_input_transfer_on_off_info as eaton_enable_disable_info avalible
- drivers/mge-hid.c: input.transfer.forced.enabled added \+ input.bypass.switch.on/off for RW vars

2.216 2024-10-04 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/usbhid-ups.c: change back to ecomode
- drivers/mge-hid.c: change he to ecomode

2.217 2024-10-03 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: rename to `bypassauto` in info_lkp_t eaton_input_bypass_mode_info[]
- drivers/mge-hid.c: spaces typo fixes
- drivers/mge-hid.c: eaton_input_bypass_mode_info[] added
- drivers/mge-hid.c: add bypass commands for test

2.218 2024-10-02 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, conf/ups.conf.sample, docs/man/nut_usb_addvars.txt, docs/man/ups.conf.txt, drivers/main.c, include/nutconf.hpp: drivers/main.c, docs, etc.: accept "LIBUSB_DEBUG=NUM" setting via ups.conf
- drivers/main.c: accept "debug_min" case-insensitively, like in upsmon and upsd

2.219 2024-10-01 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: add ecomode commands
- drivers/usbhid-ups.c: change ecomode to high-efficiency in status_info
- drivers/mge-hid.c: info_lkp_t eaton_input_mode_info[] format spaces
- drivers/usbhid-ups.c: fix typo ups_status
- drivers/mge-hid.c, drivers/usbhid-ups.c: eco_mode_info[] back 3 values \+ UPS.PowerConverter.Input.[5].PresentStatus.Used added

2.220 2024-09-30 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-hid.c: delete typo space
- drivers/usbhid-ups.h: define info_lkp_t eco_mode_info[] in usbhid-ups.h
- drivers/usbhid-ups.c: fix typo
- drivers/usbhid-ups.c: fix info_lkp_t eco_mode_info[]
- drivers/usbhid-ups.c, drivers/usbhid-ups.h: add eco_mode info

2.221 2024-09-25 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- data/cmdvartab: Fix typo in "Outlet [P] → [p]rotection status"
- drivers/mge-hid.c: change outlet.2 . . . Outlet.[1] to Outlet.[3]
- data/cmdvartab, docs/nut-names.txt, drivers/mge-hid.c: `outlet.n.status` back and new one move to intro `outlet.1.protect` also define in cmdvartab and /docs/nut-names.txt
- drivers/mge-hid.c: `outlet.1.switch.status` rename back to `outlet.1.status`
- docs/nut-names.txt: change to `switch (0-2)` for input.eco.switchable in nut-names.txt
- drivers/mge-hid.c: comment on ESS mode
- data/cmdvartab, docs/nut-names.txt: adding `input.eco.switchable`, `outlet.n.ecocontrol` to cmdvartab and /docs/nut-names.txt
- drivers/mge-hid.c: added `info_lkp_t eaton_input_mode_info[]` for input.eco.switchable
- drivers/mge-hid.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: move `info_lkp_t outlet_eco_yes_no_info[]` to mge-hid.c

2.222 2024-09-24 Jim Klimov <jimklimov@gmail.com>

- docs/man/usbhid-ups.txt: document troubleshooting Linux USB quirk vs. Eaton devices [#630]

2.223 2024-09-24 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: update and move "expected" improvements from v2.8.3 to v2.8.4 goals

2.224 2024-09-24 DaRK AnGeL <masterwishx@gmail.com>

- drivers/mge-hid.c: some typo fix

2.225 2024-09-24 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- drivers/mge-xml.c: remove typo space
- drivers/mge-xml.c: remove also from mge-xml.c
- drivers/powerp-bin.c: remove `outlet_eco_yes_no_info[]` from powerp-bin.c
- drivers/mge-xml.c, drivers/usbhid-ups.h: outlet_eco_yes_no_info defined in upshid-ups.h
- drivers/mge-xml.c: outlet.1.ecocontrol added to mge-xml to fix undefined
- drivers/mge-hid.c: remove `*outlet_eco_yes_no_info` from mgr-hid.c
- drivers/mge-hid.c, drivers/mge-xml.c, drivers/powerp-bin.c, drivers/usbhid-ups.c: try to fix definition of `outlet_eco_yes_no_in error`
- drivers/powerp-bin.c, drivers/usbhid-ups.c: added `info_lkp_t outlet_eco_yes_no_info` and `valtab_t outlet_eco_`
- drivers/mge-hid.c: intoduce input.eco.switchable
- drivers/mge-hid.c, drivers/mge-xml.c: outlet_eco_yes_no_info move to mge-xml.c
- drivers/mge-hid.c: eaton_outlet_protection_status_info \+ outlet_eco_yes_no_info fix
- drivers/mge-hid.c: add *eco_pegasus_yes_no_info* func to uotlet.2.ecocontrol
- drivers/mge-hid.c: fix typo in comments
- drivers/mge-hid.c: some of the fixes

2.226 2024-09-23 Jim Klimov <jimklimov@gmail.com>

- drivers/liebert-gxe.c: non-functional cosmetic fixes (NUT codebase style) [#2629]
- drivers/ydn23.h: non-functional cosmetic fixes (NUT codebase style) [#2629]
- drivers/liebert-gxe.c: issue messages mentioning "liebert-gxe" not plain "gxe" [#2629]
- docs/man/liebert-gxe.txt: use double-dash for tirez [#2629]
- docs/man/liebert-gxe.txt: clarify port/cable used [#2629]
- NEWS.adoc: move liebert-gxe introduction into NUT v2.8.3 timeframe [#2629]

2.227 2024-09-23 DaRK AnGeL <masterwishx@gmail.com>

- drivers/mge-hid.c: first trying to add values

2.228 2024-09-23 Arnaud Quette <arnaudquette@eaton.com>

- drivers/mge-hid.c: EATON HID: completion on examples
- drivers/mge-hid.c: EATON HID: add missing usages and paths

2.229 2024-09-22 Jim Klimov <jimklimov@gmail.com>

- drivers/liebert-gxe.c: satisfy opposing desires of static analysis Compiler wants both to handle `default` cases in `switch` lists, and dislikes a `default` label in enum handling when all known values are handled (and wants them all to be handled). The clash is only resolvable by pragmas, like elsewhere in out codebase.

2.230 2024-09-15 desertwitch <24509509+desertwitch@users.noreply.github.com>

- clients/upssched.c, drivers/adelsystem_cbi.c, drivers/al175.c, drivers/dstate.c, drivers/generic_modbus.c, drivers/main.c, drivers/riello_usb.c: clients/, drivers/: use _with_errno helpers instead of strerror(errno)

2.231 2024-09-14 desertwitch <24509509+desertwitch@users.noreply.github.com>

- docs/man/usbhid-ups.txt: add missing lowbatt argument

2.232 2024-09-14 Jim Klimov <jimklimov@gmail.com>

- docs/config-prereqs.txt: add a few recommended MacOS/HomeBrew packages

2.233 2024-09-14 Gong Zhile <goodspeed@mailo.cat>

- NEWS.adoc, data/driver.list.in, docs/man/Makefile.am, docs/man/liebert-gxe.txt, docs/nut.dict, drivers/Makefile.am, drivers/liebert-gxe.c, drivers/ydn23.h: drivers/ydn23.h: add ydn23 protocol helper, drivers/liebert-gxe.c: add Liebert GXE Series driver

2.234 2024-09-13 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: upsdrv_banner(): keep NUT version near NUT project name, only mention "driver" if needed (once) [#2583] Example change: * Network UPS Tools driver 2.8.2.1064-1064-g501bbdc62 (development iteration after 2.8.2) - network XML UPS 0.46 * Network UPS Tools 2.8.2.1064-1064-g501bbdc62 (development iteration after 2.8.2) - network XML UPS driver 0.46 Compare to older versions' markup where NUT version tailed in the end (generally fixed by PR #2583 due to possible nested parentheses in dev builds): * Network UPS Tools - Generic HID driver 0.53 (2.8.2) . . . and to other non-driver programs now, which generally do print their program name/type after NUT before version: * Network UPS Tools upsmon 2.8.2.1064-1064-g501bbdc62 (development iteration after 2.8.2)

2.235 2024-09-12 Jim Klimov <jimklimov@gmail.com>

- docs/nut-names.txt: document the Input Voltage Hysteresis concept [#2620]
- docs/nut-names.txt: re-phrase input.transfer.hysteresis table description [#2620]
- drivers/mge-hid.c: bump sub-driver version due to added data points [#2620]
- data/cmdvartab, docs/nut-names.txt, drivers/mge-hid.c: Typo fix (hysteresYs ⇒ hysteresIs) [#2620]

2.236 2024-09-12 Jim Klimov <jimklimov+nut@gmail.com>

- data/cmdvartab: fix a bit of wording for "percent of nominal"
- docs/nut-names.txt: fix asciidoc table markup and a bit of wording
- Makefile.am: fix shell typo [#2624]

2.237 2024-09-12 DaRK AnGeL <masterwishx@gmail.com>

- data/cmdvartab, docs/nut-names.txt, drivers/mge-hid.c: add hysteresys value \+ add nominal to freq range

2.238 2024-09-12 DaRK AnGeL <28630321+masterwishx@users.noreply.github.com>

- data/cmdvartab: Update cmdvartab

2.239 2024-09-11 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: avoid hard-coded auglensdir if we can, to avoid broken distcheck on some platforms/builds
- COPYING, docs/acknowledgements.txt, docs/nut.dict, scripts/installer/.gitignore, scripts/installer/Makefile.am, scripts/installer/READ scripts/installer/common_EN/license.txt: docs: finalize re-licensing of scripts/installer from Eaton to NUT terms (GPL) [#2288, #2621]
- m4/ax_realpath_lib.m4: recognize "GNU ld script" files which redirect to a real library
- m4/ax_realpath_lib.m4: fix indentation
- NEWS.adoc, drivers/usb-common.c, tools/nut-scanner/scan_usb.c: tools/nut-scanner/scan_usb.c: port nut_usb_get_string() from usb-common.c [#2604, #2615]
- drivers/usb-common.c: fix C style of comments [#2604]
- docs/man/nut_usb_addvars.txt: make a NOTE of LibUSB specific debugging [#2616]
- Makefile.am: install-win-bundle-thirdparty DLL check: cover libexecdir [#1936 follow-up]
- drivers/clone-outlet.c, drivers/clone.c: drivers/clone{,-outlet}.c: throttle if polling too quickly
- drivers/clone-outlet.c, drivers/clone.c: drivers/clone{,-outlet}.c: update header comment descriptions and ©

2.240 2024-09-11 DaRK AnGeL <masterwishx@gmail.com>

- data/cmdvartab, docs/nut-names.txt: add missing values to nut vars \+ *percent Hz* in cmdvartab

2.241 2024-09-10 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: combine "make spellcheck-interactive" with "make touch-files and update them properly
- drivers/clone-outlet.c, drivers/clone.c: drivers/clone{,-outlet}.c: parse_args(): add a skip_out label to log ignored socket protocol line details
- docs/man/dummy-ups.txt: update regarding clone-outlet driver and differences of the three

2.242 2024-09-09 DaRK AnGeL <masterwishx@gmail.com>

- data/cmdvartab: add values description
- drivers/mge-hid.c: change high to range in (input.transfer.frequency.bypass and input.transfer.frequency.eco)
- drivers/mge-hid.c: Add Bypass and ECO Transfer values for future work on enable Eco mode for Eaton

2.243 2024-09-08 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/clone.c, drivers/clone-outlet.c: reconcile shared code style
- docs/man/clone.txt: revise vs. clone-outlet page

2.244 2024-09-07 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/Makefile.am, docs/man/clone-outlet.txt, docs/nut.dict: Introduce docs/man/clone-outlet.txt
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: rename nut_libusb_subdriver_defaults() to common style [#2611]
- NEWS.adoc, docs/nut.dict: NEWS.adoc: explain USB enumeration fix [#2611] With an Arduino Leonardo compatible board attached alongside a CyberPower CP1500PFCLCD, usbhid-ups would incorrectly conclude that there was no kernel driver attached to the UPS and then fail subsequent steps accordingly. The cause is the global usb_communication_subdriver_t struct; when a subdriver (e.g. arduino-hid) sets different values during the enumeration loop, they're not set back to defaults afterwards, causing issues with other subdrivers (e.g. cps-hid). So, if a subdriver doesn't match, set a selection of fields back to their default values using the newly added nut_usb_subdriver_defaults() before the next attempt. // tofurky

2.245 2024-09-03 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: move bicker_ser entry to keep USB-related news together
- drivers/blazer_usb.c, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usbhid-ups.c: Bump USB-capable driver versions impacted by new `nut_usb_get_string()` method [#1925, #2604]
- NEWS.adoc: document new `nut_usb_get_string()` method - extend [#1925, #2604]
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: rename static nut_usb_set_altinterface() ⇒ nut_libusb_set_altinterface() to maintain a consistent code style [#2604]
- NEWS.adoc: document new `nut_usb_get_string()` method [#1925, #2604]

2.246 2024-09-01 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: document fix for allow_killpower flag [#2605]
- tests/NIT/nit.sh: default to run with BASH where available (and system shell is not it)
- tests/NIT/nit.sh: check with BASH before bailing out with available tools that did not see hits Builds in Android with Termux lack the permissions to see open ports.
- tests/NIT/nit.sh: check that /proc/net/tcp* are readable, not just existing Builds in Android with Termux lack the permissions to see open ports.
- tests/NIT/nit.sh: use TABCHAR in regex for portability

2.247 2024-08-28 desertwitch <24509509+desertwitch@users.noreply.github.com>

- drivers/main.c: comment for setting driver.flag.allow_killpower default

2.248 2024-08-28 Tormod Volden <debian.tormod@gmail.com>

- drivers/libusb0.c: libusb0: Rename nut API functions for consistency with libusb1.c The original names could also be confused with libusb-1.0 API functions. Also rename nut_libusb_strerror() although not a nut API function.
- drivers/libusb0.c, drivers/libusb1.c: libusb0/1: Simplify range checks in nut API nut_libusb_get_string() The string index is a number between 1 and 255, simply because it is the lower byte of wValue in the GET_DESCRIPTOR request. String index 0 is used for retrieving the langid array, so it is not valid for this function. There is no reason to impose a limit to the length of the buffer that the user is lending us, certainly not above the range of the involved types, so just a minimal sanity check is enough. Since in the minimal case we would return an empty zero-terminated string, it must at least have room for this.
- drivers/libusb0.c, drivers/libusb1.c: libusb0/1: Fix up comments about expected types
- drivers/libusb0.c, drivers/libusb1.c: libusb0/1: Use nut_usb_get_string() instead of libusb functions Fixes #1925
- drivers/usb-common.c, drivers/usb-common.h: usb-common.c: Add API-neutral nut_usb_get_string() This function doesn't use usb_get_string_simple() from libusb0 or libusb_get_string_descriptor_ascii() from libusb1 but replaces them to be able to add a workaround for devices with broken langid descriptors. If the langid descriptor is invalid, the en_US language is assumed. (See https://github.com/networkupstools/nut/issues/1925) It also adds retries to the string descriptor fetching, which may help in some cases. (See https://github.com/networkupstools/nut/issues/414) A small delay is introduced between the retries.

2.249 2024-08-27 desertwitch <24509509+desertwitch@users.noreply.github.com>

- drivers/main.c: do not overwrite set allow_killpower flag with defaults

2.250 2024-08-26 Tormod Volden <debian.tormod@gmail.com>

- drivers/libusb0.c, drivers/libusb1.c: Revert "drivers/libusb{0,1}.c: retry getting Manufacturer/Product/Serial a few times if failed on the first" This reverts commit 0fa5687aef27ba7ada1cd8aeec6963560c08f00f. The reverted commit introduced retries when failing to retrieve various device string descriptors. In the following commits we will attempt this in a more centralized way, and for the purpose of clarity it is easiest to retract this and start with cleaner sheets.
- drivers/libusb1.c: Revert "drivers/libusb1.c: nut_libusb_open(): try to re-fetch curDevice→Vendor, Product, Serial if NULL, after claiming it by other criteria [#2562]" This reverts commit ea99f96f87ea06cf5ff486ba7541bf8f74e2c33b. The reverted commit attempted to workaround a string descriptor retrieval issue by retrying after claiming an interface on the device. However, this did not help, and it was later found out that a broken langid descriptor was the root issue all along.
- drivers/libusb0.c: Revert "drivers/libusb0.c: libusb_open(): try to re-fetch curDevice→Vendor, Product, Serial if NULL, after claiming it by other criteria [#2562]" This reverts commit ad83b70bbd3a0f6eff64d6b8dbfc14621d3cba97. The reverted commit attempted to workaround a string descriptor retrieval issue by retrying after claiming an interface on the device. However, this did not help, and it was later found out that a broken langid descriptor was the root issue all along.

2.251 2024-08-22 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c: generalize handling of unexpectedly long sleeps and negative time jumps [#1070]
- clients/upsmon.c: fix debug print format for sleep during loop-end [#1070]
- docs/FAQ.txt, docs/nut.dict: docs/FAQ.txt: refer to "nutshutdown" script from the older example
- NEWS.adoc, docs/FAQ.txt, docs/man/upsdrvctl.txt, drivers/upsdrvctl.c, scripts/Solaris/nut-driver.xml.in, scripts/systemd/nut-driver@.service.in, scripts/systemd/nutshutdown.in, tests/NIT/nit.sh: upsdrvctl and docs: warn about direct use on builds with systemd/SMF (so NDE)
- configure.ac: expose WITH_SOLARIS_SMF also to C code
- clients/upsmon.c: add check for negative time jumps [#1070, #2597]
- clients/upsmon.c: fix check for strange time jumps [#1070]

2.252 2024-08-21 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: document generalization of upsmon clock-jump handling [#2597]
- clients/upsmon.c: monitor if our sleep during end of loop cycle took too long [#1070] Treat **any** clock jump same as OS sleep (act to avoid stale UPS info), even if it was not a suspend/hibernate event but e.g. summer/winter time change or just upsmon suspended by a debugger or blocked stdio.
- clients/upsmon.c: when we monitor changes of sleep/wake state and have a value from an aborted older loop cycle, make sure it is up to date now just before we handle it [#1070]
- clients/upsmon.c: when we report ability (or not) to use sleep inhibition, report also if we can monitor changes of sleep/wake state [#1070]
- tests/NIT/nit.sh: export TESTPASS_* values to NIT.env for the sandbox after we actually have them [#2597]
- common/common.c: Inhibit(), isPreparingForSleep(): refactor debug-logging, add notes that we mark methods unsupported at run-time [#1070]
- clients/upsmon.c: fix a bit of coding style for WIN32 code path
- clients/upsmon.c: when OS wants to sleep, abort the UPS polling loop [#1070]
- clients/upsmon.c: when OS wants to sleep, abort the sleep(sleepval) done between loop cycles [#1070]
- clients/upsmon.c: consult whether isInhibitSupported/isPreparingForSleepSupported to avoid needless decisions and logs on some deployments [#1070]
- common/common.c, include/common.h: include ways to quickly query whether isInhibitSupported/isPreparingForSleepSupported [#1070]
- clients/upsmon.c: when OS wakes up from sleep, reload_conf() AFTER resetting clocks on UPS readings [#1070] Also make sure it is treated as a reload and not initial load!
- tests/NIT/README.adoc, docs/nut.dict: update about mocking upsmon.conf [#2597]
- clients/upsmon.c: when waking up after OS sleep/hibernation, reset UPS times to "now" to make-believe the readings are fresh and not stale [#1070]
- clients/upsmon.c: report sleep_inhibitor_status value (quietly) during each loop processing [#1070]
- touch-file callers can use to check for prepared sandbox [#2597]
- tests/NIT/Makefile.am: build a few more binaries commonly used by NIT (or manually tested by NIT sandbox) [#2597]
- tests/NIT/nit.sh: report NIT.env location for sourcing also after printing it out [#2597]
- tests/NIT/nit.sh: export TESTDIR value to NIT.env [#2597]
- tests/NIT/nit.sh: export TESTPASS_* values to NIT.env [#2597]
- tests/NIT/nit.sh: remember the caller-provided TESTDIR value (if any) and do not remove it after exit [#2597]
- tests/NIT/nit.sh: allow caller to set TESTDIR, and have more reasons to mktemp one in a non-default location [#2597]
- Makefile.am, tests/NIT/Makefile.am, tests/NIT/nit.sh: Makefile.am, tests/NIT/Makefile.am: introduce check-NIT-sandbox check-NIT-sandbox-devel recipes to streamline dev-testing [#2597]

2.253 2024-08-19 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c, m4/nut_check_libsystemd.m4: open_sdbus_once(): use older sd_bus_open_system() \+ optional sd_bus_set_des as fallback [#1070]
- conf/upsmon.conf.sample.in: re-word some text about notifications
- clients/upsmon.h: fix whitespaces
- clients/upsmon.c, clients/upsmon.h, common/nutconf.cpp, common/nutwriter.cpp, conf/upsmon.conf.sample.in, docs/man/nut-conf.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, include/nutconf.hpp, scripts/augeas/nutupsmonconf.aug.in, tools/nutconf/n cli.cpp: upsmon code, docs, config tools: introduce notifications for SUSPEND_STARTING and SUSPEND_FINISHED [#1070]
- docs/man/nutconf.txt: update with new notification types of NUT v2.8.1\+ era
- clients/upsmon.c: report init_Inhibitor() success, should only be once per uptime [#1070]
- common/common.c: open_sdbus_once(): fiddle with sd_bus_set_allow_interactive_authorization() [#1070]
- common/common.c: Inhibit(), isPreparingForSleep(): log detailed systemd exception, if available [#1070]
- common/common.c: fix systemd endpoint definition for inhibitor interface management [#1070]
- common/common.c: Inhibit() et al: refactor with reopen_sdbus_once() and would_reopen_sdbus() sanity-check [#1070]
- common/common.c: Inhibit() et al for unsupported platforms: only post "Not implemented" messages once [#1070]
- clients/upsmon.c: refactor with init_Inhibitor() [#1070]
- common/common.c: Inhibit() et al: quiesce error/debug messages [#1070]
- common/common.c: open_sdbus_once(): use prettier sd_bus_open_system_with_description() for better journal logging [#1070]
- common/common.c: open_sdbus_once(): only report failures once in a row [#1070]
- UPGRADING.adoc: document systemd inhibitor interface support in NUT, and stress that older hacks for the purpose may be obsolete now [#1070]
- clients/upsmon.c: add daemon support for OS-sleep inhibition and wake-up [#1070]
- clients/upsmon.c: barebone structure for OS-sleep inhibition support [#1070] This commit adds support to process the systemd (later potentially equivalent) framework signals about going to sleep or waking up, to grab and release the locks which can hold up the actual start of sleep mode. Later work would focus on not shutting down because of the time jump when we wake up :)
- common/common.c, include/common.h, m4/nut_check_libsystemd.m4: introduce Uninhibit() and isPreparingForSleep() methods [#1070]
- common/common.c: comment about *attribute*cleanup(f) usage [#1070]
- m4/nut_check_libsystemd.m4: check for sd-bus.h auto-cleanup methods [#1070]
- common/common.c: augment Inhibit() with a retry of D-Bus connection if a call() failed, and auto-close it on exit [#1070]
- common/common.c: refactor Inhibit() with open_sdbus_once() and re-usable systemd_bus connection [#1070]
- common/common.c, clients/upsmon.c: annotate ends of systemd-related ifdefs
- m4/nut_check_libsystemd.m4: do not check for methods delivered by newer systemd which we do not use now [#1070]
- clients/upsmon.c: indent nested preprocessor directives (optional includes)
- NEWS.adoc: document systemd inhibitor interface support in NUT [#1070]
- common/common.c, include/common.h: introduce Inhibit() method [#1070] Snow-ball several libsystemd pseudo-code and real code examples.

- configure.ac, scripts/systemd/Makefile.am: consider WITH_LIBSYSTEMD_INHIBITOR availability for default installation of nut-sleep.service [#1833, #1070, #2596]
- m4/nut_check_libsystemd.m4: detect systemd inhibitor support (via D-Bus API) [#1070] Thanks to pointers from https://github.com/-systemd/systemd/issues/34004
- scripts/systemd/nut-driver-enumerator-daemon-activator.service.in, scripts/systemd/nut-driver-enumerator-daemon.service.in, scripts/systemd/nut-driver-enumerator.path.in, scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver.target, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in, scripts/systemd/nut.target, scripts/systemd/nutshutdown.in: scripts/systemd/*: bump © to 2024
- NEWS.adoc, scripts/systemd/Makefile.am, scripts/systemd/nut-sleep.service: Introduce scripts/systemd/nut-sleep.service [#1833, #1070] Thanks to "Ropid" for contributing this file via https://github.com/networkupstools/nut/issues/1833#issuecomment-2292261061
- m4/nut_check_libsystemd.m4: extend to try getting SYSTEMD_VERSION from systemctl if pkg-config is missing [#1070]
- .gitignore, Makefile.am, configure.ac: configure.ac: when doing in-place builds, move config.log of the original invocation to config.log.inplace-outer
- configure.ac: comment to document the trick about "ln -sr" test
- configure.ac: comment a FIXME about TREE_VERSION definition
- ci_build.sh: refactor "Starting initial clean-up ... TAKING SHORTCUT", introduce CI_REGENERATE=true to force it * Move into a method for different BUILD_TYPE's to share. * Have one "rm" command for different use-cases. * Add a new toggle to force the clean-up and regen. * Also clean away config.h (if one remains somehow, it confuses sub-tree builds like those done for Windows).
- m4/nut_check_libgd.m4: generate test image to tmpfile() or stderr ... so its binary content does not pollute common log

2.254 2024-08-15 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac, m4/nut_check_libsystemd.m4: m4/nut_check_libsystemd.m4: check if nut_have_libsystemd_inhibitor [#1070]
- scripts/fuse/README.adoc, scripts/fuse/execfuse-nut/getattr, scripts/fuse/execfuse-nut/read_file, scripts/fuse/execfuse-nut/readdir: scripts/fuse/README.adoc, scripts/fuse/execfuse-nut/*: separate "client-location" from "client-version" [#2591]
- scripts/fuse/README.adoc, scripts/fuse/execfuse-nut/readdir: integrate with NIT-prepared environments [#2591]
- scripts/fuse/README.adoc: suggest use of plain `umount`, it works too [#2591]
- scripts/fuse/README.adoc: allow re-entrance with copy-pasted experiments (mkdir -p) [#2591]
- scripts/fuse/README.adoc: list the built execfuse binary to check it was made [#2591]
- scripts/fuse/README.adoc: clarify prerequisites for an execfuse build [#2591] These would likely become NUT optional dependencies in `docs/config-prereqs.txt`, if a more integrated client would be made to follow up with this idea eventually.

2.255 2024-08-14 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/nut.dict: announce the FUSE experiment [#2591]
- scripts/fuse/README.adoc, scripts/fuse/execfuse-nut/getattr, scripts/fuse/execfuse-nut/read_file, scripts/fuse/execfuse-nut/readdir: scripts/fuse: extend execfuse-nut experiment with a /client-version pseudo-file [#2591]

2.256 2024-08-13 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/fuse/README.adoc, scripts/fuse/execfuse-nut/getattr, scripts/fuse/execfuse-nut/init, scripts/fuse/execfuse-nut/read_file, scripts/fuse/execfuse-nut/readdir: Introduce a scripts/fuse experiment [#2591]

2.257 2024-08-12 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_libgd.m4: AX_RUN_OR_LINK_IFELSE() to check that we can actually build a graphical program Namely, that further third-party libs are available for the chosen architecture, not only the headers. Had a problem with 32/64-bit build agent that only had a binary lib*.so set for 64-bit after an update.
- ci_build.sh: actually honour CANBUILD_LIBGD_CGI=no
- ci_build.sh: fix shell syntax that could confuse CANBUILD_LIBGD_CGI detection
- drivers/usbhid-ups.c: upsdrv_initups(): cache testvar() outcome as exactly 0/1 [#2347] When building a complex text expression, we rely on maths in some spots.

2.258 2024-08-11 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: update about "Back-UPS BX****MI Series (may need tweaks since 2023)" [#2347]
- drivers/usbhid-ups.c: clarify suggested settings for LB\+RB log flood [#2437]
- NEWS.adoc, UPGRADING.adoc, docs/nut.dict: summarize the mitigation for spurious LOWBATT/REPLACEBATT events on APC BXnnnnMI devices [#2347]

2.259 2024-08-10 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, drivers/bcmxcp.c, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, m4/ax_c_pragmas.m4, tools/nut-scanner/scan_usb tools/nut-scanner/scan_usb.c: do not actively suggest vendor(id), product(id), and serial options for bcmxcp_usb, richcomm_usb, nutdrv_atcl_usb [#1763, #1764, #1768, #2580]
- NEWS.adoc, clients/nutclient.cpp, clients/upsclient.c, clients/upslog.c, clients/upssched.c, common/common.c, common/nutconf.cpp, common/nutstream.cpp, common/nutwriter.cpp, common/parseconf.c, drivers/apc_modbus.c, drivers/apcsmart-old.c, drivers/apcsmart.c, drivers/bcmxcp.c, drivers/belkin-hid.c, drivers/bestups.c, drivers/blazer_usb.c, drivers/dstate.c, drivers/etapro.c, drivers/hidparser.c, drivers/huawei-ups2000.c, drivers/main.c, drivers/mge-hid.c, drivers/mge-xml.c, drivers/netxml-ups.c, drivers/nut-libfreeipmi.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_masterguard.c, drivers/openups-hid.c, drivers/powercom.c, drivers/rhino.c, drivers/richcomm_usb.c, drivers/riello.c, drivers/solis.c, drivers/tripplite_usb.c, m4/ax_c_pr server/netssl.c, server/sockdebug.c, server/upsd.c, tools/nut-scanner/scan_avahi.c: Fix clang-18 warnings about switch clauses without a default label [#2588]
- include/str.h: use a more reliable definition of NUT_STRARG doing nothing [#2585]
- m4/ax_c_pragmas.m4, docs/configure.txt: let `--enable-NUT_STRARG-always` setting have `auto` detection by default [#2585] Flips to "yes" for gcc-13.x (clang having issues is not proven at the moment)
- m4/ax_c_pragmas.m4, docs/configure.txt, UPGRADING.adoc, docs/nut.dict: introduce `configure --enable-NUT_STRARG-` setting [#2585]

2.260 2024-08-06 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usbhid-ups.c: when defaulting lbrb_log_delay_sec, suggest also setting the lbrb_log_delay_without_calibrating flag [#2347]

2.261 2024-08-05 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/nut.dict: NEWS.adoc: mention fixes for fallback `localtime_r()` and `gmtime_r()` [#1611, #2583]
- drivers/huawei-ups2000.c: adapt to fixed gmtime_r() when a macron in WIN32 fallbacks [#1611, #2583]

- include/timehead.h: fix hacky macro localtime_*() fallbacks for WIN32 builds [#2583, #1611] Partially inspired by /mingw64/include/
  NOTE: Unlike linux\+mingw cross-builds, the semi-native ones on Windows with MSYS2 do not enforce _POSIX_THREAD_SAFE_
  and so can lack the optional declarations in the file above.
- tools/nut-scanner/nut-scanner.c: no longer need to #include "nut_version.h" [#2573, #2097]
- configure.ac, include/timehead.h: check also for mere declarations of localtime_r() etc.
- configure.ac: report checking for lack of both decls and linkage for time methods
- configure.ac: clarify that failed AC_CHECK_FUNCS() are about linker
- scripts/Windows/build-mingw-nut.sh, configure.ac: promote use of _POSIX_THREAD_SAFE_FUNCTIONS It seems C+\+ builds using NUT config.h ⇒ timehead.h on WIN32 struggle uniquely (as C ones did not) with alleged redefinition of localtime_r() and gmtime_r() which is in fact optionally present in headers but not found by linking tests in AC_CHECK_FUNCS().
- configure.ac: refactor with CODE_TIMEINCL
- drivers/apc_modbus.c: indent code with TABs (cosmetic)
- drivers/apc_modbus.c: indent optional includes (cosmetic)
- tools/nutconf/nutconf-cli.cpp: indent nested preprocessor directives (include)
- common/common.c: nut_report_config_flags(): refactor with describe_NUT_VERSION_once() copy of the code [#2573]
- tools/nutconf/nutconf-cli.cpp: add a FIXME comment about lack of "-D" CLI option
- tools/nutconf/nutconf-cli.cpp: add a version printout to Usage (both help and new standalone option) [#2573]
- tools/nutconf/nutconf-cli.cpp: use just the xbasename() of prog name [#2573]
- drivers/upsdrvctl.c: refactor to common handling of "-V" CLI arg and use of print_banner_once() [#2375]
- drivers/main.c: upsdrv_banner(): rearrange the main version string to follow common NUT pattern [#2573]
- tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scanner.c: tools/nut-scanner/nut-scanner.c: refactor to know its "progname" and pass it to print_banner_once() and show_usage() [#2573] Also update tools/nut-scanner/Makefile.am to have the symbols in libnutscan
- tools/nut-scanner/nut-scanner.c: refactor to use print_banner_once() with its copy of describe_NUT_VERSION_once() instead of large code chunk in the program [#2573]
- common/common.c: revise print_banner_once() to use describe_NUT_VERSION_once() rather than directly UPS_VERSION [#2573]
- common/common.c, include/common.h: introduce a common method for NUT programs to describe_NUT_VERSION_once() [#2573]
- drivers/main.c: avoid printing upsnotify() warnings when just querying program versions [#2573]
- clients/upsc.c, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, drivers/main.c, scripts/Windows/wininit.c, server/upsd.c, tools/nut-scanner/nut-scanner.c: Revise programs to print_banner_once(), use same style of comment for "-V" handling [#2573]
- clients/upsc.c, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, server/upsd.c: Revise program descriptions in help(), use same pattern for message layout there [#2573]
- common/common.c, include/common.h: introduce a common method for NUT programs to print_banner_once() [#2573]
- NEWS.adoc: Fix uses of `banner_is_disabled()` to not preclude CLI `-V` printouts [#2573]

2.262 2024-08-02 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/scan_usb.c: nutscan_scan_usb(): avoid fatal_with_errno(), emit upsdebug_with_errno(0, ...) and return NULL [#2575] Commented away idea: assume nutscan_avail_usb=0 if we failed to init or malloc? TODO: This might preclude cleanly unloading the library, and also the problem of one loop cycle might not repeat on another.
- tools/gitlog2version.sh: in debug, report also SEMVER [#1949]

2.263 2024-08-01 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/upsdrvsvcctl/upsdrvsvcctl.in, docs/man/upsdrvsvcctl.txt: complete the "upsdrvsvcctl status" feature [#2567]
- scripts/upsdrvsvcctl/upsdrvsvcctl.in, docs/man/upsdrvsvcctl.txt: add an option to display binary version (and fix the script one in help) [#2567]
- scripts/upsdrvsvcctl/upsdrvsvcctl.in: make path to UPSDRVCTL a variable, like ENUMERATOR is used [#2567]
- NEWS.adoc: new dstate LOGOUT command [#2567]
- drivers/upsdrvquery.c: upsdrvquery_close(): track if we loggedOut and so not complain about disconnection faults [#2567]
- drivers/upsdrvctl.c: status: revise return values of checkprocname() vs. sendsignalpid(), unite via pidAlive [#2567]
- tools/gitlog2version.sh: comment why we repeat TRUNK candidate branches, and add master in the end too [#1949]
- drivers/dstate.c, drivers/dstate.h: drivers/dstate.{c,h}: err on the safe side with LOGOUT, and only mark the connection - close later [#2567]
- server/netmisc.c: update net_help()
- drivers/upsdrvquery.c: upsdrvquery_close(): take advantage of the new LOGOUT command [#2567]
- drivers/dstate.c, docs/sock-protocol.txt: introduce a LOGOUT command [#2567] Now that the driver Unix socket / Windows named pipe connections can come and go (sibling drivers, `upsdrvctl status...`) it is not pretty to see logged messages about an unexpected connection loss. Having it coincide with a LOGOUT is better for troubleshooting.
- drivers/upsdrvctl.c, docs/man/upsdrvctl.txt: "status": detect a RUNNING or not program using PID from **either** PID file or socket protocol [#2567]
- docs/man/upsdrvctl.txt: add an example of "list" with hidden banner [#2567]
- common/common.c: parsepid(): set errno in case of errors [#2567]
- drivers/mge-hid.c: add Eaton 9En000 models "iau" suffix, and 9E3000 "ixl"/"ixlau" [#2562] Per https://github.com/networkupstools/-nut/pull/2571#issuecomment-2261450468
- drivers/mge-hid.c: add Eaton 9En000 models "iau" suffix, and 9E3000 "ixl"/"ixlau" [#2562] Per https://github.com/networkupstools/-nut/pull/2571#issuecomment-2261450468

2.264 2024-08-01 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/upsdrvsvcctl.in: adjust SVC_NAME_WIDTH to framework type too [#2567]
- scripts/upsdrvsvcctl/upsdrvsvcctl.in: allow caller to customize ENUMERATOR and UPSDRVCTL when testing [#2567]

2.265 2024-07-31 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/mge-hid.c: add Eaton 9E1000* models, and "ir" suffix for rack [#2562] According to https://github.com/networkupstools/-nut/pull/2571#issuecomment-2261337602
- drivers/mge-hid.c: add Eaton 9E1000* models, and "ir" suffix for rack [#2562] According to https://github.com/networkupstools/-nut/pull/2571#issuecomment-2261337602
- drivers/libusb0.c: libusb_open(): try to re-fetch curDevice→Vendor, Product, Serial if NULL, after claiming it by other criteria [#2562]
- drivers/libusb0.c: libusb_open(): comment about `if (!callback){...}` check
- drivers/libusb1.c: nut_libusb_open(): try to re-fetch curDevice→Vendor, Product, Serial if NULL, after claiming it by other criteria [#2562]
- drivers/libusb1.c: nut_libusb_open(): comment about `if (!callback){...}` check
- drivers/mge-hid.c: rephrase the presumed 9E2000*i* model [#2562] I did not find any actual mentions of plain "9E2000" without an "i", only these: https://www.eaton.com/tr/en-gb/skuPage.9E2000I.html Also prepared for "9E3000i" models while here.
- tools/gitlog2version.sh: actively discover a newest known NUT_VERSION_GIT_TRUNK if not provided explicitly [#1949]
- drivers/upsdrvctl.c: fix use of nut_sendsignal_debug_level; add nut_upsdrvquery_debug_level hushing around upsdrvquery_connect_c attempt [#2567]
- drivers/upsdrvquery.c: upsdrvquery_connect(): fix pidfn⇒sockname var naming
- drivers/upsdrvctl.c, docs/man/upsdrvctl.txt: status: print a header with column names [#2567]
- docs/man/upsdrvctl.txt: status: clarify PF_PID negative values [#2567]
- docs/man/upsdrvctl.txt: status: clarify print-out syntax just after the example [#2567]
- conf/nut.conf.sample: prepare to `export` envvars which are NUT program configuration tweaks
- docs/man/nut.conf.txt: update IMPORTANT NOTES
- conf/nut.conf.sample: update heading comments (IMPORTANT NOTES)
- drivers/upsdrvctl.c: status_driver(): no need to check for NULLness of conn→buf [#2567]
- drivers/upsdrvctl.c: status_driver(): upsdrvquery_close(conn) after use [#2567]
- scripts/upsdrvsvcctl/upsdrvsvcctl.in, docs/man/upsdrvsvcctl.txt: provide a basic "status" operation [#2567]
- drivers/upsdrvctl.c, docs/man/upsdrvctl.txt: complete "upsdrvctl status" with socket protocol queries [#2567]
- common/common.c, include/common.h: refactor parsepidfile() out of sendsignalfn()
- drivers/dstate.c, docs/sock-protocol.txt, docs/nut.dict: implement DUMPVALUE and DUMPSTATUS queries
- drivers/dstate.c, docs/sock-protocol.txt, docs/nut.dict: implement GETPID query
- drivers/dstate.c: refactor st_tree_dump_conn_one_node() out of st_tree_dump_conn() [#2567]

2.266 2024-07-30 Jim Klimov <jimklimov+nut@gmail.com>

- docs/maintainer-guide.txt: note bumping wikipedia article
- NEWS.adoc, docs/man/upsdrvctl.txt, drivers/upsdrvctl.c: drivers/upsdrvctl.c: add "status" operation (initially triial skeleton) [#2567]
- drivers/upsdrvctl.c: only log suggestions about exec debugging if we would start or shutdown
- drivers/upsdrvctl.c: comment why pidfn is not used in apparent WIN32 codepaths
- tests/NIT/nit.sh: introduce NUT_FOREGROUND_WITH_PID=true tweak
- tools/gitlog2version.sh: Set exit code based on availability of default version info data point [#1949]
- tools/gitlog2version.sh: getver_git(): "return 1" if we fail to discover DESC or BASE data [#1949]
- tools/gitlog2version.sh: report if Git-based version info discovery failed and we fall back [#1949]
- tools/gitlog2version.sh: only consider BASE after we get DESC successfully (and abort if there is no common BASE) [#1949]
- tools/gitlog2version.sh: refactor with a separate NUT_VERSION_GIT_ALWAYS_DESC toggle envvar [#1949]
- server/netget.c: get_var_server(): refer to PACKAGE_URL (and hard-coded "https://www.networkupstools.org/" if PACKAGE_URL points completely elsewhere) [#1949] Tested with "GET VAR dummy server.info" command
- server/netmisc.c: net_ver(): refer to PACKAGE_URL (and hard-coded "https://www.networkupstools.org/" if PACKAGE_URL points completely elsewhere) [#1949] Tested with "VER" command
- tools/gitlog2version.sh: default PACKAGE_URL with "www" in the string [#1949]
- clients/upslog.c, clients/upsmon.c, drivers/main.c, server/upsd.c: use banner_is_disabled() checking [#1789 vs. #316]
- drivers/upsdrvctl.c, docs/man/upsdrvctl.txt: use banner_is_disabled() checking [#1789 vs. #316]
- NEWS.adoc, UPGRADING.adoc, common/common.c, conf/nut.conf.sample, include/common.h: Introduce `NUT_QUIET_INIT_BA` envvar support and `banner_is_disabled()` common method [balancing issues #1789 vs. #316]
- conf/nut.conf.sample: document NUT_QUIET_INIT_SSL missed before [#1662]
- conf/nut.conf.sample, docs/man/nut.conf.txt: document NUT_QUIET_INIT_UPSNOTIFY missed before [#2136]
- conf/nut.conf.sample, docs/man/nut.conf.txt: document NUT_DEBUG_PID missed before [#2118]
- drivers/upsdrvctl.c: main(): revise reporting of command_name in debug logs [#2567] ... and avoid a potential argv array overflow (or at least useless NULL reporting) along the way
- drivers/upsdrvctl.c: send_all_drivers(): drop redundant "ups = upstable" assignments
- NEWS.adoc, docs/man/upsdrvctl.txt, drivers/upsdrvctl.c: drivers/upsdrvctl.c: add "list" operation [#2567]

2.267 2024-07-29 Jim Klimov <jimklimov+nut@gmail.com>

- docs/maintainer-guide.txt: suggest also use of `VERSION_FORCED` and `VERSION_FORCED_SEMVER` files in our release rituals, we have support anyway and want to test it in-vivo [#1949]
- NEWS.adoc, docs/man/usbhid-ups.txt, docs/nut.dict, drivers/usbhid-ups.c: drivers/usbhid-ups.c, docs/man/usbhid-ups.txt: introduce lbrb_log_delay_sec et al [#2347]
- drivers/usbhid-ups.c: track start and end timestamps of calibration [#2347]
- NEWS.adoc, docs/new-drivers.txt, drivers/dstate.c, drivers/dstate.h: drivers/dstate.{c,h}, docs/new-drivers.txt, NEWS.adoc: introduce status_get()
- drivers/usbhid-ups.c: avoid "\n" starting an upsdebugx() message That "\n" gets printed as "#012"

- NEWS.adoc: document the recent fixes for apcsmart [#704]
- drivers/apcsmart.c: upsdrv_updateinfo(): if dstate_is_stale, log if we fix it [#704]
- drivers/apcsmart.c: upsdrv_updateinfo(): if dstate_is_stale, try to reconnect every 60 retry attempts [#704]
- drivers/apcsmart.c: upsdrv_updateinfo(): if dstate_is_stale, try to flush the incoming data buffer [#704]
- drivers/apcsmart.c: upsdrv_updateinfo(): if dstate_is_stale, retry slowly [#704]
- drivers/apcsmart.c: update upsdebugx() to report *func* where they did not
- NEWS.adoc, docs/nut.dict, drivers/apcsmart.c: drivers/apcsmart.c: constrain strcpy() ⇒ strncpy() NOTE: Further improvement is possible in that strncpy() does not guarantee a NUL byte in the end of resulting string (if input is too long, it is only truncated).
- drivers/apcsmart.c: revise comments and log messages

2.268 2024-07-28 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am: distribute VERSION_FORCED and/or VERSION_FORCED_SEMVER if present [#1949]
- docs/maintainer-guide.txt: clarify use of annotated Git tags [#1949]
- docs/maintainer-guide.txt: clarify for `tools/gitlog2version.sh` now in the loop [#1949]
- drivers/snmp-ups.h: neuter also PACKAGE_URL if present, to avoid conflict with net-snmp-config.h [#1949]
- tools/nut-scanner/scan_snmp.c: neuter also PACKAGE_URL if present, to avoid conflict with net-snmp-config.h [#1949]
- NEWS.adoc, data/driver.list.in, drivers/mge-hid.c: drivers/mge-hid.c, NEWS.adoc: try to recognize Eaton 9E model and info [#1925] Also handle "unknown 2000" assuming it is a mis-read "Eaton 9E 2000(i?)" which refused to tell libusb its vendor/product/serial strings. This may be the answer to such issues as #1925, #2380 (re-opened), #2492

2.269 2024-07-27 Jim Klimov <jimklimov+nut@gmail.com>

- .gitignore, UPGRADING.adoc, ci_build.sh, tools/gitlog2version.sh: tools/gitlog2version.sh: allow NUT_VERSION_FORCED_SEM for some distros [#1949] Test: :; ./clients/upsmon -DDV Network UPS Tools upsmon 2.8.2.404.365-769-g96f0c9cb3 0.000000 [D1] Network UPS Tools version 2.8.2.404.365-769-g96f0c9cb3 (development iteration after 1.1.1) built with clang version 16.0.6…
- .gitignore, UPGRADING.adoc, ci_build.sh, tools/gitlog2version.sh: tools/gitlog2version.sh, ci_build.sh: allow VERSION_FORCED for some distros [#1949]
- tools/gitlog2version.sh: update comment [#1949]
- Makefile.am, autogen.sh, configure.ac, include/Makefile.am, tools/gitlog2version.sh: tools/gitlog2version.sh et al: change configurable vars to NUT_VERSION_* namespace [#1949]
- docs/config-prereqs.txt: kudos to Termux
- autogen.sh: kill obsolete nut_version.h during regen [#1949]
- autogen.sh, configure.ac: configure.ac: drop square brackets around macro in AC_INIT [#1949] Per suggestion from https://github.com NixOS/nix/issues/5832

2.270 2024-07-26 Jim Klimov <jimklimov+nut@gmail.com>

- tools/gitlog2version.sh: only PREFER_GIT blindly if abs_top_srcdir is a git workspace [#1949]
- tools/nut-scanner/nut-scanner.c: hush compiler warnings about unreachable code paths with NUT_VERSION_IS_RELEASE macro decisions [#1949]
- common/common.c: hush compiler warnings about unreachable code paths with NUT_VERSION_IS_RELEASE macro decisions [#1949]
- autogen.sh: update comment about AC_INIT complaints for m4_esyscmd_s() [#1949]
- configure.ac: update comment about AC_INIT complaints for m4_esyscmd_s() [#1949]
- tools/gitlog2version.sh: provide a fallback for older git which does not know how to --exclude [#1949]
- ci_build.sh: check_gitignore(): define FILE_GLOB_EXCLUDE differently [#1949]
- common/common.c: convert nut_report_config_flags() to more definitive behavior with NUT_VERSION_IS_RELEASE flag and NUT_VERSION_SEMVER_MACRO string [#1949]
- tools/nut-scanner/nut-scanner.c: use NUT_VERSION_IS_RELEASE and NUT_VERSION_SEMVER_MACRO when printing version [#1949] Note this is a custom printer, separate from common.c
- common/common.c, include/Makefile.am: include/Makefile.am: nut_version.h: inject also NUT_VERSION_SEMVER_MACRO and NUT_VERSION_IS_RELEASE [#1949]
- configure.ac: introduce NUT_SOURCE_GITREV_IS_RELEASE and NUT_SOURCE_GITREV_SEMVER [#1949]
- ci_build.sh: update suggestion about Homebrew envvar setting [#2522]
- drivers/libshut.c: shut_control_msg(): restrict memcpy() amount Avoid warning: libshut.c:1296:25: error: *memcpy* forming offset [11, 17] is out of the bounds [0, 11] of object *shut_pkt* with type *unsigned char[11]* [-Werror=array-bounds=]
- configure.ac: set PACKAGE_TARNAME and PACKAGE_URL verbatim via AC_INIT() [#1949]
- docs/config-prereqs.txt, docs/nut.dict: clarify envvar pre-sets for MacOS/Homebrew [#2522, #2555]
- common/common.c: compareprocname(): comment about libtool-wrapped developer builds [#2463]
- configure.ac: revise injection of "-O0" into debug-able C code builds on some platforms
- autogen.sh: add line separators around big blocks of scripted messages
- ci_build.sh: check_gitignore(): define FILE_GLOB_EXCLUDE differently [#1949]

2.271 2024-07-25 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: clarify further work possible about NUT versioning support [#1949]
- NEWS.adoc, docs/nut.dict, UPGRADING.adoc: announce NUT development-friendly versioning scheme [#1949]
- tools/Makefile.am: EXTRA_DIST the gitlog2version.sh helper [#1949]
- .gitignore, Makefile.am, autogen.sh, ci_build.sh, tools/gitlog2version.sh: tools/gitlog2version.sh et al: add support for (taballed) VERSION_DEFAULT file [#1949]
- configure.ac: provide m4_esyscmd_s for builds with older autotools releases [#1949]
- configure.ac: refactor to use tools/gitlog2version.sh directly in AC_INIT without hacks [#1949]
- tools/gitlog2version.sh: refactor to share more code; introduce PREFER_GIT toggle [#1949]
- tools/gitlog2version.sh: add WANT_VER query support, 3-digit SEMVER, and URL, and IS_RELEASE [#1949]
- ci_build.sh: check_gitignore(): introduce FILE_GLOB_EXCLUDE and handle FILE_GLOB allowing for multi-token values

2.272 2024-07-24 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: set PACKAGE_TARNAME and PACKAGE_URL [#1949]
- configure.ac, include/Makefile.am: use consistently the tools/gitlog2version.sh for version info [#1949]
- tools/gitlog2version.sh: introduce new helper script to parse NUT structured version from Git (if available) [#1949]
- m4/nut_check_aspell.m4: avoid "exec — 2>&1" trick, not all shells like it
- configure.ac: avoid square brackets in m4 script [#1949]

2.273 2024-07-23 Jim Klimov <jimklimov+nut@gmail.com>

- docs/sock-protocol.txt: update with examples of propagated flag names [#266]
- server/netset.c: comment about true meaning of "!val" clause [#266]
- docs/net-protocol.txt: update examples of invalid numbers [#265]
- server/netget.c: get_type(): reword logged message for assuming a NUMBER [#266]
- UPGRADING.adoc: document NUT_DEBUG_SYSLOG and its possible impact on future packaging [#2394]

2.274 2024-07-22 Jim Klimov <jimklimov+nut@gmail.com>

- server/netget.c: get_type(): report assuming UPS[%s] variable %s is a NUMBER to help catch code that did not set the flags [#266]
- server/sstate.c: fix upsdebugx() and upslogx() calls to refer to *func* and not hard-coded strings [#266]
- drivers/dstate.c: fix upsdebugx() and upslogx() calls to refer to *func* and not hard-coded strings [#266]
- common/state.c: fix upsdebugx() and upslogx() calls to refer to *func* and not hard-coded strings [#266] This is more streamlined and also fixes some mis-attributed messages (evolution? copy-paste?)
- server/netset.c: set_var(): trace-log why this method errors out [#266]
- drivers/main.c: comment about immutable (or not) driver/default/override dstate values [#266]
- common/state.c: log about not-updating an immutable value [#266]
- clients/upsclient.c: when host is known NULL, report that directly, no need for NUT_STRARG() [#2512]
- common/common.c: compareprocname(): fix basename comparison (copy-paste typo) [#2463]
- common/common.c: refactor sendsignalpid() to check checkprocname_ignored() and getprocname(pid) once for several tests against its value, and report it in the end [#2463]
- include/common.h, common/common.c: refactor apart checkprocname_ignored() from checkprocname() and compareprocname() [#2463]
- include/common.h, common/common.c: refactor apart compareprocname() from checkprocname() [#2463]
- conf/hosts.conf.sample, conf/nut.conf.sample, conf/ups.conf.sample, conf/upsd.conf.sample, conf/upsd.users.sample, conf/upsmon.co conf/upssched.conf.sample.in, conf/upsset.conf.sample, docs/man/hosts.conf.txt, docs/man/nut.conf.txt, docs/man/ups.conf.txt, docs/man/upsd.conf.txt, docs/man/upsmon.conf.txt, docs/man/upssched.conf.txt, docs/man/upsset.conf.txt: docs/man/**.conf.txt, conf/**.sample*: note about ASCII-only contents of parsed config files [#2543]
- docs/nut.dict: update docs/nut-names.txt with items defined by 42ITy NUT fork [#2339]
- NEWS.adoc: update docs/nut-names.txt with items defined by 42ITy NUT fork [#2339]
- drivers/usbhid-ups.c, NEWS.adoc: for devices with VendorID=`0x06da` (Phoenixtec) suggest trying `nutdrv_qx` [#334]

2.275 2024-07-20 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: document fix of prefix for custom distchecks [#2541]
- Makefile.am: re-define "prefix" to help both native distcheck and its sub-make brethren pass [#2541]

2.276 2024-07-20 Alejandro González <me@alegon.dev>

- drivers/cps-hid.c: support `ups.firmware` and `input.sensitivity` These variables were tested to work fine on a CP1350EPFCLCD UPS.
- drivers/cps-hid.c: use consistent indentation in recently added code

2.277 2024-07-19 Jim Klimov <jimklimov@gmail.com>

- Makefile.am, scripts/Makefile.am, scripts/udev/Makefile.am: use AM_MAKEFLAGS when calling $(MAKE)
- scripts/augeas/Makefile.am: EXTRA_DIST lens templates (including the generated nutupsconf.aug.in) if not installing as DATA
- Makefile.am: pass DISTCHECK_CONFIGURE_FLAGS explicitly to sub-makes for different distcheck scenarios [#2541]
- ci_build.sh: update log-trace messages about default-tgt:* running a sequential or parallel build
- ci_build.sh: update log-trace messages about Homebrew

2.278 2024-07-19 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: update for cps-hid bump [#2540]
- drivers/cps-hid.c: tone down the version bump [#2540]
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: update MacOS build agent setup [#2522]

2.279 2024-07-18 Jim Klimov <jimklimov@gmail.com>

- Jenkinsfile-dynamatrix: do not build "pure autoconf default" scenario on MacOS\+Homebrew
- docs/config-prereqs.txt: update about NUT CI Jenkins agent on MacOS

2.280 2024-07-18 Jim Klimov <jimklimov+nut@gmail.com>

- server/upsd.c: fix build on systems without IPV6_V6ONLY
- configure.ac, tools/nut-scanner/nut-scanner.c: tools/nut-scanner/nut-scanner.c: update build for systems that lack all getifaddr() related methods [#2244]
- common/str.c, configure.ac, include/nut_float.h: Provide fallback strtof() for platforms where it is missing
- include/timehead.h, configure.ac, common/Makefile.am, common/timegm_fallback.c: add a fallback timegm()
- configure.ac: refactor discovery of SEMLIBS (may be needed to AX_RUN_OR_LINK_IFELSE() just a bit below) [#2522]
- tools/nut-scanner/nut-scan.h, configure.ac: sem_open() usage needs O_CREAT header [#2522]
- clients/upssched.c: indent preprocessor clauses
- tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/scan_*: typo fix from copy-pasted %i⇒PRIuSIZE [#2522]
- tools/nut-scanner/nut-scanner.c: include nut_stdint.h always, not only in threaded builds [#2522]

2.281 2024-07-17 Jim Klimov <jimklimov@gmail.com>

- Makefile.am: check-scripts-syntax: fix to ignore old /bin/bash and try something else if possible MacOS ships 3.x and does not grok our syntax; their HomeBrew version is ok.
- configure.ac, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_ea tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/*: add ability to use named semaphores [#2522]
- configure.ac: add a sem_open() detector of named semaphore support [#2522]
- configure.ac: try to run sem_init() detector to see if it is usable [#2522] Should fail e.g. on MacOS where it is present in headers but not implemented and throws deprecation warnings which our compile\+link(+run) check can use to rule out the support.
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: note temurin JDK installation in MacOS/HomeBrew section
- docs/config-prereqs.txt: fix typo in NetBSD section

2.282 2024-07-17 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nut-scanner.c: bump RESERVE_FD_COUNT for NetSNMP use of files [#2511]
- m4/nut_check_libusb.m4: differentiate native and cross mingw builds, they vary in preferences
- NEWS.adoc: when cross-building with a non-cross pkg-config program, neuter its PKG_CONFIG_LIBDIR
- docs/Makefile.am: adjust to possibility of repeated date\+author title lines [#2510] While we group by those (by default, overridable) when generating the `ChangeLog`, we ignore the e-mail for comparisons — and different signatures can matter!
- m4/nut_check_pkgconfig.m4: when cross-building with a non-cross pkg-config program, neuter its PKG_CONFIG_LIBDIR Imported from wxWidgets project; their license is LGPL-based with extra permissions: https://github.com/wxWidgets/wxWidgets/-blob/master/docs/licence.txt
- m4/nut_check_pkgconfig.m4: report PKG_CONFIG_PATH and `pkg-config --variable pc_path pkg-config` for troubleshooting

2.283 2024-07-17 Alejandro González <me@alegon.dev>

- data/driver.list.in, drivers/cps-hid.c: drivers/cps-hid.c: support variables available on CP1350EPFCLCD UPS

2.284 2024-07-16 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, configure.ac, docs/nut.dict, include/Makefile.am, include/nut_bool.h, m4/nut_check_bool.m4, tests/.gitignore, tests/Makefile.am, tests/nutbooltest.c: configure.ac, m4/nut_check_bool.m4, include/nut_bool.h, tests/nutbooltest.c et al: introduce a NUT_CHECK_BOOL scriptlet and a header with nut_bool_t type [#1176] Chose to use a unique type name to avoid conflicts with third-party headers which deliver a `bool_t` (currently commonly hacked into many NUT sources). Using lower-cased `true` and `false` values, hoping for maximum compatibility with C99 and newer language standards (if the compilers do implement them on whatever obscure platform NUT gets built on, and then our new `nut_bool_t` definition can be just an alias for what the language gives us). A test case was added to make sure it behaves as expected on different systems. Converting the sources from their custom type definitions and usages would be a separate step.
- drivers/bcmxcp.c, drivers/belkin-hid.c, drivers/isbmex.c, drivers/libhid.c, drivers/powercom.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/tripplite.c, drivers/tripplite_usb.c: drivers/*.c: switch to #include "nut_float.h" instead of direct <math.h> and/or <float.h> [#1176]
- tools/nut-scanner/scan_snmp.c: cosmetic fixes, reconcile with DMF branch

- Makefile.am, NEWS.adoc, UPGRADING.adoc: for ChangeLog generation from git metadata, default to HANGELOG_REQUIRE_GI [#2510]
- tools/gitlog2changelog.py.in: fixup! tools/gitlog2changelog.py.in: cosmetic fixes
- tools/gitlog2changelog.py.in: support CHANGELOG_REQUIRE_GROUP_BY_DATE_AUTHOR mode [#2510]
- tools/gitlog2changelog.py.in: cosmetic fixes
- tools/gitlog2changelog.py.in: comment about possible interleaved date\+author entries [#2510]
- docs/Makefile.am: "doc" target as part of "all" is not alone there [#2510]
- docs/Makefile.am: actually do fail with ChangeLog.html-contentchecked recipe hits [#2510] ... except for when we deliberately generated nothing and report it in the document

2.285 2024-07-15 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: try to make sure we only build ChangeLog.adoc once (or keep the first built copy in a parallel fanout) [#2510]
- docs/Makefile.am: clarify the message about DOC-CHANGELOG-GENERATE-WRAPPER to differentiate it better from the real build [#2510]
- README.adoc: avoid double-dash in the TIP block, this somehow breaks PDF generation
- README.adoc: make "NUT GitHub Star History Chart" visible only in GitHub/HTML auto-rendering but not in static PDF docs
- docs/nut.dict, docs/man/hwmon_ina219.txt: update for OI aspell dictionaries
- README.adoc: reword the GitHub stars image
- clients/Makefile.am: dlname_filter(): use a shell function to avoid mixing backticks and double-quotes (upsets ksh) [#2431]
- tools/nut-scanner/nutscan-init.c, tools/nut-scanner/Makefile.am, NEWS.adoc: use client/libupsclient-version.h for SOFILE_LIBUPSC [#2431]
- clients/Makefile.am, clients/.gitignore: generate a client/libupsclient-version.h from libtool information file [#2431]
- tools/nut-scanner/Makefile.am, NEWS.adoc: bump "minor" semver component [#2511, #2431, #2450 et al] Earlier bump went to "patch" component, but here we actually have an API expansion (and more exported symbols), so the more important component should be bumped.
- tools/nut-scanner/nut-scanner.c: count auto-selected subnets, loudly warn if none were chosen [#2244]
- tools/nut-scanner/nut-scan.h: minor typo fix in comment
- tools/nut-scanner/nutscan-init.c, include/nut_platform.h, m4/ax_realpath_lib.m4: move definition of SOEXT to the header [#2431] This would allow the multiplatform-aware library-picking logic to be used elsewhere (e.g. DMF) eventually.
- drivers/libhid.c, drivers/libhid.h: drivers/libhid.{c,h}: clarify "**NUT** HID Library - User API" in file headings
- clients/upsclient.c, clients/upsclient.h, clients/upsmon.c, common/nutwriter.cpp, drivers/apc-mib.c, drivers/hwmon_ina219.c, drivers/libhid.c, drivers/libhid.h, drivers/masterguard.c, drivers/mge-utalk.h, drivers/microdowell.c, drivers/nutdrv_qx.c, drivers/usbhid-ups.c, include/nut_platform.h, include/parseconf.h, server/netssl.c, server/nut_ctype.h, tools/nut-scanner/nut-scanner.c: *.{c,h}: Revise indentation of nested preprocessor clauses/code - vol.2 Conform to NUT code style guide, and satisfy pre-processors that insist on "traditional" code layout by default (hash sign must start the line for them).
- docs/config-prereqs.txt: for platforms that offer a choice of python2/3 package names, separate its installation sample from the big block of unambiguous packages [#2467]
- m4/ax_realpath_lib.m4, tools/nut-scanner/nutscan-init.c: add HP-UX *.sl file name patterns into the loop [#2431]

2.286 2024-07-12 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: if remaking ChangeLog.html due to failed content check, remove the faulty file [#2510]
- docs/Makefile.am: ChangeLog.html-contentchecked: no dependencies, avoids (re-)generation and log messages [#2510]
- NEWS.adoc, UPGRADING.adoc, docs/man/usbhid-ups.txt, docs/nut.dict, drivers/powercom-hid.c, drivers/usbhid-ups.c: drivers/powe hid.c, docs et al: add powercom_sdcmd_byte_order_fallback to send shutdown/stayoff in old byte order [#2480]
- docs/Makefile.am: make a retry of ChangeLog.html more visible [#2510]
- docs/Makefile.am: avoid lots of noise about symlinks to prep-src-docs
- docs/Makefile.am: avoid unbalanced double-quotes inside backticks [#2510]
- tests/Makefile.am: avoid "$\^" which BSD make does not always resolve
- scripts/python/Makefile.am: avoid "$\^" which BSD make does not always resolve [#2529]
- scripts/Solaris/Makefile.am: avoid "$\^" which BSD make does not always resolve
- docs/Makefile.am: use ChangeLog.html-contentchecked to retry building a broken document (once) [#2510]
- .gitignore, docs/Makefile.am: docs/Makefile.am: turn ChangeLog.html-contentchecked into a standalone recipe [#2510]
- docs/Makefile.am: sanity-check html-single ChangeLog.html - report it as FAILED only once, and list the current size etc. [#2510]
- scripts/Windows/build-mingw-nut.sh: do not complain so loudly about missing optional cgi dir
- scripts/Windows/build-mingw-nut.sh: check the built docs [#2510]
- docs/Makefile.am: report the amount of times the first/second/last entries were seen (if not 2) [#2510]
- docs/Makefile.am: sanity-check html-single ChangeLog.html for presence of a few key entries (exactly once) [#2510]
- ci_build.sh, scripts/Windows/build-mingw-nut.sh: consistently report "configure phase complete" and use of PARMAKE_FLAGS [#2510] Note that scripted WIN32 cross-build currently is sequential-only and only with the `make` from `PATH`.

2.287 2024-07-11 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/Makefile.am: revise *.po ⇒ *.mo generation [#2529]
- scripts/valgrind/.valgrind.supp: sem_open is broken in some libc implementations [#2511] Per https://forums.freebsd.org/-threads/named-semaphore-uninitialized-bytes.84850/ apparently BSD libc and GLibc at least do suffer
- scripts/valgrind/.valgrind.supp, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-display.c, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-serial.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_nut_simulation.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: scripts/valgrind/.valgrind.supp: update titles for libssl suppressions
- tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ipmi.c tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/scan_*.c: reconcile coding style some more [#2511]
- tools/nut-scanner/scan_xml_http.c: nutscan_scan_xml_http_thready(): revise trace-logging and comment markup [#2511]

2.288 2024-07-10 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/scan_snmp.c, scripts/valgrind/.valgrind.supp: constrain warnings about library methods [#2511]
- tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_avahi.c, scripts/valgrind/.valgrind.supp: constrain warnings about library methods [#2511]
- tools/nut-scanner/scan_snmp.c, scripts/valgrind/.valgrind.supp: constrain libnetsnmp leak reports [#2511] It seems that although `init_snmp()` is called once, every use of the library initializes some data which it then does not release, at least on the test system here.
- tools/nut-scanner/scan_xml_http.c: close broadcast socket too, avoid FD leak [#2511]
- tools/nut-scanner/scan_nut.c: list_nut_devices_thready(): free allocations more reliably [#2511]
- tools/nut-scanner/scan_snmp.c: track nut_initialized_snmp to only init_snmp() once per library load [#2511]
- tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c: tools/nut-scanner/scan_*.c: drop remaining usage of WSAStartup() overlooked before
- tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/scan_*.c: initialize "stwS" and "stwST" to better track semaphore usage in debugger
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/*.c: refactor nutscan_free() to actively lt_dlclose() the loaded library modules [#2511] Avoid some memory leak reports
- common/common.c: nut_prepare_search_paths(): avoid an FD leak, and comment what we do about "dirname" with and without realpath() support
- Makefile.am, NEWS.adoc, docs/developers.txt, docs/nut.dict, scripts/Makefile.am, scripts/valgrind/.valgrind.supp, scripts/valgrind/README.adoc, scripts/valgrind/valgrind.sh: Introduce scripts/valgrind with helper script\+data to trace memory usage [#2511]
- tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http. tools/nut-scanner/scan_*: revise "thready" scanning methods [#2511] * Clearly name "thread-ready" scanning methods that can be used standalone or from pthread_create() constraints * Settle on "thready" methods freeing caller's data (so we do not worry about doing it after the parallel loops, or at a wrong moment before) * Unify code mark-up in the files to facilitate later comparisons * Update some comments
- NEWS.adoc, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_ip tools/nut-scanner/scan_ipmi.c, nut-scan.h, nutscan-init.c, nut-scanner.c, NEWS.adoc: implement parallel scanning for remote IPMI controllers [#2523]
- UPGRADING.adoc: Revert "UPGRADING.adoc: hush the changes of PR for issue #2523 until it is in the codebase" This reverts commit d710adef2eba7003a0b42ae2d38709a7204befb4: the feature is here now.
- UPGRADING.adoc: hush the changes of PR for issue #2523 until it is in the codebase
- tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: use blank lines in fallback not-built-here methods markup (as in other files)
- UPGRADING.adoc: highlight API (and a bit of ABI) changes to `libnutscan`, version bumped [#2244, #2523 et al]
- drivers/nut-libfreeipmi.c: fix indentation (TAB vs SPACE)
- clients/upsclient.h, drivers/nut-libfreeipmi.c, drivers/usb-common.c, drivers/usb-common.h, tools/nut-scanner/nut-scan.h, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: *.{c,h}: Revise indentation of nested preprocessor clauses/code Conform to NUT code style guide, and satisfy pre-processors that insist on "traditional" code layout by default (hash sign must start the line for them).
- tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/scan_{nut,snmp,x update comments

- tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c, tools/nut-scanner/nutscan init.c, tools/nut-scanner/nutscan-ip.h, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ip tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/*: update © headers

2.289 2024-07-09 Jim Klimov <jimklimov@gmail.com>

- tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/scan_{ipmi,snm comment concerns about bracketed IPv6 in "port" values [#2512]
- tools/nut-scanner/scan_nut.c: report discovered IPv4 addresses in brackets [#2512]

2.290 2024-07-09 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nut-scanner.c: add a warning comment about bit-counting for `-m auto` [#2244, #2516]
- tools/nut-scanner/nut-scanner.c: implement "-m auto" for two WIN32 APIs [#2516]
- NEWS.adoc: update `nut-scanner -m auto` note - WIN32 is now supported too [#2516]
- tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/*: move WIN32 WSAStartup() rituals to nutscan_init() so they only run once and for all [#2516]
- common/common.c: revise debug-tracing of get_libname*() methods
- configure.ac: fix location of NUT_CHECK_HEADER_IPHLPAPI call [#2516]
- configure.ac, tools/nut-scanner/Makefile.am: detect WIN32 support of newer GetAdaptersAddresses() and/or older GetAdaptersInfo() [#2516]
- configure.ac: clarify why we call "cygpath" or "pwd -W", constrain their warnings if they fail (wrong "pwd"), and report the outcome
- builtin)
- m4/nut_check_headers_windows.m4: introduce NUT_CHECK_HEADER_IPHLPAPI [#2516]
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_xml_http.c: nut-scanner: convert NetXML scan to use nutscan_ip_ranges_iter [#2511]
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_snmp.c: nut-scanner: convert SNMP scan to use nutscan_ip_ranges_iter*() [#2511]
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_nut.c: nut-scanner: convert Old NUT scan to use nutscan_ip_ranges_iter*() [#2511]
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_ipmi.c: nut-scanner: convert IPMI scan to use nutscan_ip_ranges_iter*() [#2511]
- docs/man/Makefile.am, docs/man/nutscan_add_ip_range.txt, docs/man/nutscan_free_ip_ranges.txt, docs/man/nutscan_init_ip_ranges docs/man/nutscan_stringify_ip_ranges.txt, docs/nut.dict, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h: nut-scanner: introduce nutscan_stringify_ip_ranges() [#2244, #2511]
- tools/nut-scanner/nutscan-ip.c: nutscan_add_ip_range(): save irl.start_ip⇐irl.stop_ip in alphanumeric comparison order [#2511]
- NEWS.adoc, docs/man/Makefile.am, docs/man/nutscan_add_ip_range.txt, docs/man/nutscan_free_ip_ranges.txt, docs/man/nutscan_i docs/man/nutscan_ip_ranges_iter_inc.txt, docs/man/nutscan_ip_ranges_iter_init.txt, docs/man/nutscan_scan_ipmi.txt, docs/-man/nutscan_scan_nut.txt, docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_scan_xml_http_range.txt, docs/nut.dict, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h: nut-scanner: implement iteration across nutscan_ip_range_list_t collection [#2511]

- tools/nut-scanner/nutscan-ip.h: add nutscan_ip_range_list_t structure comments [#2244, #2511]
- tools/nut-scanner/nutscan-ip.c: fix comment markup
- docs/man/nutscan_add_ip_range.txt: update wording and structure comments [#2244, #2511]
- docs/man/nutscan_add_ip_range.txt: fix copy-paste typo in title [#2244, #2511]
- docs/man/Makefile.am: extend HTML_DEV_MANS_FICTION to be on par with .3 man pages
- docs/man/Makefile.am: move a comment up to cover more relevant entries
- docs/man/nut-scanner.txt, docs/nut.dict: docs/man/nut-scanner.txt: clarify about text host names as start/stop/cidr IPs [#2519]

2.291 2024-07-08 Jim Klimov <jimklimov@gmail.com>

- tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/scan_*.c: trace parallel scan ability init [#2511]
- tools/nut-scanner/nutscan-ip.c: /tools/nut-scanner/nutscan-ip.c: wrap iterated IPv6 addresses in square brackets [#2512]
- clients/upsclient.c: comment about bracketed IP addresses/host names [#2512]
- clients/upsclient.c: troubleshoot wrong upsname@hostname where only hostname was expected [#2512]
- clients/upsclient.c: cosmetic fix
- clients/upsclient.c: troubleshoot wrong hostname [#2512]
- clients/upsc.c: enable support for NUT_DEBUG_LEVEL envvar [#2512]

2.292 2024-07-08 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsclient.c: troubleshoot wrong upsname@hostname where only hostname was expected - use NUT_STRARG() for safety [#2512]
- docs/man/Makefile.am, docs/man/nutscan.txt, docs/man/nutscan_add_ip_range.txt, docs/man/nutscan_free_ip_ranges.txt, docs/man/nutscan_init_ip_ranges.txt, docs/nut.dict, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h: nut-scanner code and docs: refactor with nutscan_ip_range_list_t type for ip_ranges[] list and helper metadata, and methods as part of libnutscan [#2244, #2511] Not bumping library version, because it was recently bumped as part of other PRs about this issue. Technically the scope of the library has been changed by new exported methods and header lines.
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-ip.h: move ip_range_t definition into header [#2244]
- tools/nut-scanner/nut-scan.h: move __cplusplus extern "C" guard up to before we declare vars and types
- docs/man/nut-scanner.txt, NEWS.adoc: (fixed) IPv6 addresses must be passed in square brackets [#2512]
- tools/nut-scanner/nut-scanner.c: strip square brackets around start_ip/end_ip, if any [#2512]
- tools/nut-scanner/nutscan-ip.c: nutscan_cidr_to_ip(): strip square brackets around first_ip, if any [#2512]
- tools/nut-scanner/nutscan-ip.c: nutscan_cidr_to_ip(): sanity-check for cidr==null [#2512]
- tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_nut.c: fix order of WIN32 active init calls vs. pthread variable declarations [#2511]
- tools/nut-scanner/nut-scanner.c: debug-log the Parallel scan support status in this build and run [#2511]
- tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/scan_*.c: update some comments [#2511]

- tools/nut-scanner/scan_xml_http.c: collapse single and multiple IP address cases into one [#2512] This should apply formatting from nutscan_ip_iter_init() to single-IP scans like it happens for other protocols already. Also take the chance to rectify indentations through parallel threads code.
- tools/nut-scanner/scan_xml_http.c: comment where logical blocks end
- tools/nut-scanner/nut-scanner.c: `-t timeout`: fix to use strtol() not atol() [#2244]
- tools/nut-scanner/nut-scanner.c: handle_arg_cidr(): fix to use strtol() not atoi() [#2244]
- tools/nut-scanner/nut-scanner.c: handle_arg_cidr(): report ignoring a subnet by family before checking for mask length [#2244]
- tools/nut-scanner/nut-scanner.c: handle_arg_cidr() rename "optarg" to "arg_addr" [#2244] Avoid warning about clash with a global variable. Fallout of refactoring original code into a method. Also make it `const` as we do not change the original value anyway.
- tools/nut-scanner/nut-scanner.c, docs/man/nut-scanner.txt, docs/nut.dict, NEWS.adoc: handle_arg_cidr(): add `-m auto*/ADDRLEN` mode [#2244]
- tools/nut-scanner/nut-scanner.c: handle_arg_cidr(): log why some discovered subnets are filtered out [#2244]
- tools/nut-scanner/nut-scanner.c: handle_arg_cidr(): line-wrap long printouts [#2244]
- tools/nut-scanner/nut-scanner.c: handle_arg_cidr(): tabs (style) [#2244]
- tools/nut-scanner/nut-scanner.c: refactor handle_arg_cidr() logic to un-indent it some more [#2244]
- tools/nut-scanner/nut-scanner.c: refactor handle_arg_cidr() into a separate method [#2244] Allow for some shorter indentation

2.293 2024-07-06 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_libavahi.m4: fix detection of SOFILE/SOPATH - we need only the client library [#2431]
- NEWS.adoc, docs/man/nut-scanner.txt, tools/nut-scanner/nut-scanner.c: tools/nut-scanner/nut-scanner.c: implement "-m auto{4,6}" modes to limit selection of ranges to IPv4/IPv6 only [#2244]
- tools/nut-scanner/nut-scanner.c, NEWS.adoc: neuter networking "-m auto" support for WIN32 (needs different implementation) [#2244]
- tools/nut-scanner/nut-scanner.c: separate POSIX headers from WIN32 ones (for networking "-m auto" support) [#2244]

2.294 2024-07-05 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nut-scanner.c: `-m auto` discovery: use shorter addr/mask buffers [#2244]
- tools/nut-scanner/nut-scanner.c: comment some TODOs [#2244]
- tools/nut-scanner/nut-scanner.c: `-m auto`: implement actually converting discovered subnets into CIDR and adding to IP ranges for scanning [#2244]
- tools/nut-scanner/nut-scanner.c: flush existing start_ip/end_ip before handling whatever value of `-m` option [#2244]
- tools/nut-scanner/nut-scanner.c: quieter debug about "Discovering getifaddrs()" [#2244]
- tools/nut-scanner/nut-scanner.c: use pre-allocated struct sockaddr_in{,6} so it is aligned how-ever the platform likes [#2244]
- tools/nut-scanner/nut-scanner.c: use fatalx() instead of hackarounds [#2244]
- tools/nut-scanner/nut-scanner.c: retain getifaddrs() findings printout as a real upsdebugx() trail [#2244] Originally I intended to use these to check that the address parsing code works, and drop the printf() of these messages. But if I collect them into a string and upsdebug() it - why not, can help troubleshooting in real life later, too.

- tools/nut-scanner/nut-scanner.c: upscale sockaddr flags to uintmax_t for debug printouts to be predictable on different platforms [#2244]
- NEWS.adoc, docs/man/nut-scanner.txt, tools/nut-scanner/nut-scanner.c: tools/nut-scanner/nut-scanner.c et al: prepare for `-m auto` mode with detection of configured network interfaces
- drivers/libshut.c: libshut_open(): use static structs and memcpy() to actually fix alignment warnings
- tools/nut-scanner/nut-scanner.c: quieter debug about add_ip_range() in-/semi-valid inputs [#2244]
- tools/nut-scanner/nutscan-ip.c: refactor to name IPv4 vars with a "4" in the name, and use static structs and memcpy() to actually fix alignment warnings [#2244]
- tools/nut-scanner/nutscan-ip.c: nutscan_cidr_to_ip(): update comments and logged reports to help troubleshooting [#2244]
- tools/nut-scanner/nut-scanner.c: use xcalloc() instead of hackarounds [#2244]
- tools/nut-scanner/Makefile.am, NEWS.adoc: expose more of libcommon* symbols in libnutscan to use them in nut-scanner [#2244]

2.295 2024-07-04 Jim Klimov <jimklimov@gmail.com>

- .circleci/config.yml: report IP address when re-running the job with SSH
- docs/developers.txt: document pragmas for unused code/vars
- docs/developers.txt: document indentation style for nested macros/pragmas Inspired by weird bugs in code analysis tools on some platforms (and their headers). * https://stackoverflow.com/questions/42031921/unterminated-unconditional-directive-error-when-preprocessing-c-code
- https://bugs.llvm.org/show_bug.cgi?id=31886
- ci_build.sh: jump through some hoops to avoid use of "cpp" program name if we can
- .circleci/config.yml: try to install MC into "Re-run job with SSH" envs
- .circleci/config.yml: allow use of latest brew packages
- .circleci/config.yml: force use of CPP="clang -E" with clang builds
- .circleci/config.yml: force use of python3.12 for MacOS/Homebrew as of now
- ci_build.sh: cater for netsnmp\+openssl intimacy on MacOS/Homebrew
- m4/ax_realpath_lib.m4: fall back to use "uname -m" for MacOS linker arch
- configure.ac: refactor with PROBE_OS_GROUP/PROBE_OS_USER to try "id" where "getent" is missing Primarily this facilitates "in-place replacement" builds

2.296 2024-07-04 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nut-scanner.txt: document that currently different IP range scans do not parallelize together [#2244] See also: https://github.com/networkupstools/nut/issues/2511
- tools/nut-scanner/nut-scanner.c: drop unused DEFAULT_TIMEOUT macro [#2244] We actually use DEFAULT_NETWORK_TIMEO from common.h same as in clients/upsclient.c
- tools/nut-scanner/nutscan-device.c: protect nutscan_add_device_to_device() from adding a list to itself
- tools/nut-scanner/nut-scanner.c: use run*() methods for most of the non-threaded scans too [#2244]
- tools/nut-scanner/nut-scanner.c, docs/man/nut-scanner.txt, NEWS.adoc: introduce a way to scan several IP address ranges [#2244]

- docs/man/nut-scanner.txt, docs/nut.dict: docs/man/nut-scanner.txt: note that some protocols require IP address options and others behave differently without them [#2244]
- docs/man/nut-scanner.txt: update general markup
- docs/man/nut-scanner.txt: update general wording about IP address options [#2244]
- tools/nut-scanner/nutscan-ip.c: tools/nut-scanner/nut-scanner.c: comment some TODO for IPv6 netmask proper support [#2244]
- tools/nut-scanner/nut-scanner.c: clarify some code comments [#2244]
- tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/{scan_xml_http.c,scan_snmp.c,scan_nut.c,scan_ipmi.c}: report the IP address (range, single, none) in the log [#2244]

2.297 2024-07-03 Jim Klimov <jimklimov@gmail.com>

- m4/nut_check_libnetsnmp.m4: revise detection of the two headers
- m4/ax_realpath_lib.m4: revise to better detect MacOS *.dylib files [#2431]
- tools/nut-scanner/nutscan-init.c: do not detect NUT_PLATFORM_APPLE_OSX as WITH_MACOSX (driver)
- m4/nut_check_libnetsnmp.m4: check for both headers we use typically, and report the findings
- .circleci/config.yml: relink net-snmp from brew to be in default search paths It seems the XCode version of the library and its headers gets preferred, so we either find no symbols or load the library variant built without them.
- m4/nut_check_libnetsnmp.m4: report myCFLAGS_SOURCE and myLIBS_SOURCE from which we learned the settings
- .circleci/config.yml: clean up debugging around openssl@3 [#2502]
- .circleci/config.yml: relink openssl package if needed, and fail job if we can not
- .circleci/config.yml: relink openssl package
- .circleci/config.yml: report what "brew" knows about openssl* package(s)
- docs/config-prereqs.txt, .circleci/config.yml: we can detect HOMEBREW_PREFIX from the running system [#2502]
- .circleci/config.yml: try to ensure openssl@3 usability by reinstalling it in the end, and report what pkg-config knows
- ci_build.sh: do not set CPPFLAGS on MacOS/Homebrew builds [#2502]
- .circleci/config.yml: use clang (not gcc) directly, gcc now seems to just be an alias [#2502]
- tools/nut-scanner/Makefile.am: undefine NETSNMP_USE_OPENSSL if building without it
- drivers/Makefile.am: undefine NETSNMP_USE_OPENSSL if building without it
- configure.ac: detect WITH_SSL variants before other libraries (notably net-snmp)
- .circleci/config.yml: stash resulting config.nut_report_feature.log [#2501]
- .circleci/config.yml: now ci_build.sh used for MacOS/Homebrew builds knows to not distruct system include dirs by default [#2501]
- ci_build.sh: for MacOS/Homebrew builds, do not distruct system include dirs by default [#2501]
- .circleci/config.yml, docs/config-prereqs.txt: enable cppunit with MacOS/Homebrew builds [#2502]
- ci_build.sh: try to mark Homebrew (MacOS) include paths as "-isystem" to avoid some warnings [#2502]
- tests/cpputest-client.cpp, tests/cpputest.cpp, tests/example.cpp, tests/nutclienttest.cpp, tests/nutconf_parser_ut.cpp, tests/nutconf_ut.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp: tests/*.cpp: wrap CPPUNIT includes with more pragmas to ignore warnings [#2502]

- m4/ax_c_pragmas.m4: add many C+\+ pragmas about CPPUNIT grief seen on MacOS builds [#2502]
- drivers/snmp-ups.h, tools/nut-scanner/scan_snmp.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_UNUSED_PARAME around net-snmp headers
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_UNUSED_PARAMETER
- NEWS.adoc: report changes about MacOS builds on NUT CI and interactively [#2502]
- .circleci/config.yml: pass just HOMEBREW_PREFIX to ./ci_build.sh now, not customized paths anymore [#2502]
- ci_build.sh: inject pkg-config, libltdl and libsnmp settings with HOMEBREW_PREFIX automatically
- ci_build.sh: guess CI_CCACHE_SYMLINKDIR with HOMEBREW_PREFIX automatically
- .circleci/config.yml, docs/config-prereqs.txt, docs/nut.dict: .circleci/config.yml, docs/config-prereqs.txt: install docbook-xsl and document nuances around it
- ci_build.sh: set *FLAGS after detecting CI_OS_NAME nuances
- .circleci/config.yml: use HOMEBREW_PREFIX variable as already used by brew [#2502]
- configure.ac: revise use of AC_SEARCH_LIBS for i2c methods (one per call)
- m4/nut_check_libregex.m4: further simplify work with AC_SEARCH_LIBS
- m4/nut_check_libregex.m4: AC_SEARCH_LIBS is for one method at a time
- scripts/augeas/gen-nutupsconf-aug.py.in: mark regex strings as r"" [#2183]
- .circleci/config.yml, docs/config-prereqs.txt: clarify dependencies available via Homebrew on MacOS [#2502]

2.298 2024-07-03 Jim Klimov <jimklimov+nut@gmail.com>

- .circleci/config.yml: introduce NUTCI_HOMEBREW_BASEDIR to parameterize location of Homebrew libs, includes and ccache [#2502]
- .circleci/config.yml: introduce NUTCI_HOMEBREW_BASEDIR to parameterize location of Homebrew libs, includes and ccache [#2502]
- docs/config-prereqs.txt, .circleci/config.yml: clarify the different Homebrew locations are due to architecture, not age [#2502]
- configure.ac: fix capitalization of Python the language [#2183]
- configure.ac: rectify adding to PYTHON_FAILED_TEST_DETAILS [#2183]
- configure.ac: fix reported messages after refactoring [#2183]
- configure.ac: trace decision-making about NUT-Monitor installation (or not) [#2183]
- configure.ac, m4/nut_check_python.m4: reshuffle Python detection vs. capability probing [#2183]
- configure.ac: refactor detection of usable Python interpreters; report their module search paths and versions [#2183]
- configure.ac: separate tests for nut_with_pynut_py* from nut_have_telnetlib_py*, and in those separate tests of stock telnetlib from fallback nut_telnetlib [#2183]
- configure.ac: be sure to probe nut_telnetlib module from source dir [#2183] Avoid confusion for out-of-tree builds
- COPYING, docs/nut.dict, scripts/python/module/nut_telnetlib.py: COPYING, scripts/python/module/nut_telnetlib.py: clarify the license for the copied file [#2183]
- configure.ac: upper-case Python name in message [#2183]
- configure.ac: typo in path to test with nut_telnetlib Python module [#2183]

2.299 2024-07-02 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c, clients/upsmon.c, server/upsd.c: clarify PID-file checks wording: "is running **or not**"
- m4/ax_realpath_lib.m4: try to make use of LDFLAGS, LIBS and CFLAGS when discovering libraries [#2431] At least MacOS with Homebrew seems puts each packaged library into its own directory, so args like `-L/opt/homebrew/Cellar/neon/0.32.` would be required for successful discovery.
- UPGRADING.adoc: clarify about AX_REALPATH_LIB benefits that can simplify packaging [#2431]
- tests/NIT/nit.sh: log_debug the python shebang, and separate first
- NEWS.adoc, docs/nut.dict, tools/nut-scanner/nutscan-init.c: tools/nut-scanner/*, NEWS.adoc, docs/nut.dict: make use of AX_REALPATH_LIB discovered libraries [#2431]
- tools/nut-scanner/nutscan-init.c: set libname=NULL after we free() it [#2431]
- tools/nut-scanner/nutscan-init.c: rearrange pragma indentations and update comments [#2431]
- common/common.c: extend get_libname() to try exact hits if `base_libname` includes path separator character(s) [#2431]
- tools/nut-scanner/nutscan-init.c, m4/ax_realpath_lib.m4: acknowledge MacOS Darwin "*.dylib" extension [#2431]
- m4/nut_compiler_family.m4: fence NUT_COMPILER_FAMILY to only run the logic once

2.300 2024-07-01 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_libavahi.m4, m4/nut_check_libfreeipmi.m4, m4/nut_check_libneon.m4, m4/nut_check_libnetsnmp.m4, m4/nut_check m4/nut_check_lib*.m4: call AX_REALPATH_LIB to discover SOPATH*/SOFILE* for nut-scanner third-party libs [#2431] libavahi, libfreeipmi, libneon, libnetsnmp, libusb0/1 NOTE: The libnutclient is separate, we build it - so can not detect the final name in advance right here
- m4/ax_realpath_lib.m4: introduce a way to find dynamic library names [#2431]
- .circleci/config.yml: add /opt/homebrew to include and lib choices [#2502]
- configure.ac: MacOS Darwin fails to run python scripts with proper interpreter via shebang [#2502]
- .circleci/config.yml: re-enable relinking libtool files Allegedly should help find ltdl.h
- .circleci/config.yml: update Homebrew dependency list to facilitate builds on newer baseline [#2502]
- docs/config-prereqs.txt: update dependency list and CI_CCACHE_SYMLINKDIR for newer Homebrew recipes [#2502]
- .circleci/config.yml: update CI_CCACHE_SYMLINKDIR for newer Homebrew recipes [#2502]
- tests/NIT/nit.sh: report the detected python shebang
- .circleci/config.yml: store config.log artifact for troubleshooting [#1419]
- NEWS.adoc, configure.ac, docs/nut.dict, scripts/python/Makefile.am, scripts/python/README.adoc, scripts/python/module/-Makefile.am, scripts/python/module/PyNUT.py.in, scripts/python/module/nut_telnetlib.py, scripts/python/module/setup.py.in: Provide a fallback copy of telnetlib module for PyNUTClient [#2183]
- .circleci/config.yml: add a failfast implementation to abort broken builds and use fewer resources [#2502] The underlying problems are usually shared.
- .circleci/config.yml: bump XCode version to the oldest currently available now [#2502] Closes: #2502
- ci_build.sh: allow to customize PYTHON implementation when dev-building (without args)
- scripts/python/module/test_nutclient.py.in: make internal debug verbosity of the module optional

2.301 2024-06-25 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/nut.dict: NEWS.adoc: update for libserial-nutscan.la [#2490]
- configure.ac: fix indentations for recently changed --with-docs code [#2473]
- Makefile.am: move distcheck-light-man up to distcheck-light [#2473]
- common/Makefile.am: do not embed libnutwincompat.la pieces into libcommonstr.la Initially that embedding was done to help libnutscan builds with libcommonstr.la helper, but then a separate link with libnutwincompat.la was back-ported - so this line removal helps both to constrain the helper size/scope, and against a build-time conflict.

2.302 2024-06-24 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/Makefile.am: bump libnutscan version-info just in case after recent recipe changes
- tools/nut-scanner/Makefile.am: drop LINKED_SOURCE_FILES now that we have libserial-nutscan.la
- tools/nut-scanner/Makefile.am: append to common make variables instead of defining them at first assignment Would help later when merging DMF/FTY branches; for now just a bit of syntactic sugar and reduction of diffs against them.
- drivers/Makefile.am, tools/nut-scanner/Makefile.am: introduce libserial-nutscan.la to simplify nut-scanner recipes Initiated in DMF branch by commit 4fec99ab62977365c0fa3de12f77ed9b6a01cc20

2.303 2024-06-20 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/dstate.c, drivers/dstate.h: drivers/dstate.{c,h}: introduce conn_t→readzero field and throttles around it [#2484]
- clients/nutclient.h, clients/nutclientmem.h, clients/upsclient.h, drivers/generic_gpio_common.h, drivers/generic_gpio_libgpiod.h, drivers/hidparser.h, drivers/libhid.h, drivers/main.h, drivers/upsdrvquery.h, server/upsd.h: Numerous headers: define include-guard to a number value; revise names of these guards
- drivers/dstate.c: indent ifdef-fenced includes
- drivers/dstate.c, NEWS.adoc: a read() returning 0 after a select with O_NDELAY means EOF (the other side closed socket) [#2484]
- tests/NIT/nit.sh: report PID_* set by this script for NUT daemons it has launched
- tests/NIT/nit.sh: when we DEBUG_SLEEP, report practical steps after dumping envvars - so dev/tester knows how they can proceed
- tests/NIT/nit.sh: document a typical test sandbox preparation

2.304 2024-06-18 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: update for recent changes in NEWS.adoc [#2478]
- NEWS.adoc: mention use of SSL linker deps for `snmp-ups` and `netxml-ups` builds [#2479]
- NEWS.adoc: mention libcommonstr.la [#2478]

2.305 2024-06-17 Jim Klimov <jimklimov+nut@gmail.com>

- common/Makefile.am: libcommonstr_la_LIBADD \+= @BSDKVMPROCLIBS@ [#2463, #2478]

2.306 2024-06-15 Jim Klimov <jimklimov+nut@gmail.com>

- common/Makefile.am, tools/nut-scanner/Makefile.am: Introduce private `libcommonstr.la` recipe A smaller helper library than `libcommonclient.la` which is sometimes an overkill, e.g. in `nut-scanner` where the `libupsclient.so/.dll` is loaded dynamically for "Old NUT" scans and there is no specific use for object files included into `libcommonclient.la`. More use-cases with DMF codebase (currently not yet upstreamed). Combined from a series of commits like * 3ba6b576cd2248484eaa * c418728e6ed7879f4a569ca0e3fd6f38fcb27eae * 5f16b7b7c89fa341090e886e7ca5cf8d981430eb * bc4cd957280c67778a36b49b524
- NEWS.adoc, docs/configure.txt: document `--with-doc=dist-auto` option [#2473]
- configure.ac: apply comment for nut_with_libltdl=no vs. nut_with_nut_scanner=yes situation Derived from commits 21d62421fea72c and 9322e2e3404b97615af799b7062e962030277830 in the FTY branch.
- Makefile.am: use job-server for DMF-related targets with sub-makes: cover distcheck-light-man
- Makefile.am: `make distcheck-light-man` should test installability of NUT-Monitor and PyNUT (even if as a co-bundle) Modernize `DISTCHECK_LIGHT_MAN_FLAGS` for 2022\+ Replicate commit e19fa235a7cecdf5bc5752ab87c3e6db81932da from PR https://github.com/networkupstools/nut/pull/1504
- README.adoc: add a Star History Chart badge/image

2.307 2024-06-15 Fabrice Fontaine <fontaine.fabrice@gmail.com>

- clients/upsclient.h: include sys/types.h Include sys/types.h to avoid the following uclibc build failure with collectd raised since version 2.8.0 and https://github.com/networkupstools/nut/commit/3f3851eab0d51e029f67e7db359860cc983557f4: configure:109633: checking int type of port argument for NUT upscli_splitname configure:109665: /home/buildroot/instance-0/output-1/host/bin/x86_64-linux-gcc -c -D_LARGEFILE_SOURCE -D_LARGEFILE64_SOURCE -D_FILE_OFFSET_BITS=64 -O2 -g0 -Wall -Werror -D_LARGEFILE_SOURCE -D_LARGEFILE64_SOURCE -D_FILE_OFFSET_BITS=64 conftest.c >&5 In file included from conftest.c:172: /home/buildroot/instance-0/output-1/host/x86_64-buildroot-linux-uclibc/sysroot/usr/include error: unknown type name *ssize_t*; did you mean *size_t*? 114 \| ssize_t upscli_sendline_timeout(UPSCONN_t *ups, const char *buf, size_t buflen, const time_t timeout); \| ^~~~~ \| size_t Fixes: - http://autobuild.buildroot.org/results/205/2058f87ad7dbf7fbc62c874 collectd-5.12.0/config.log

2.308 2024-06-15 Bohdan <chbgdn@gmail.com>

- drivers/powercom-hid.c: fix bytes order in shutdown commands

2.309 2024-06-13 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, UPGRADING.adoc, clients/upsmon.c, common/common.c, drivers/main.c, drivers/upsdrvctl.c, include/common.h, scripts/Windows/wininit.c, server/upsd.c: Extend sendsignal*() API some more to optionally fall back to checkprocname() vs current getpid() [#2463]
- NEWS.adoc, UPGRADING.adoc, common/common.c, conf/nut.conf.sample, docs/man/nut.conf.txt, docs/nut.dict, include/common.h: Introduce NUT_IGNORE_CHECKPROCNAME=true support to skip PID process name validation if it causes problems [#2463]
- UPGRADING.adoc: warn that packaged program name mismatches can be a problem [#2463]

2.310 2024-06-10 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c: for OB UPS and communications failure, leave just the debug log message [#2454]
- NEWS.adoc: explain the fix for #2454 via #2462
- common/common.c: checkprocname(): case #5 is not "exact", fix the message [#2463]

2.311 2024-06-09 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c, include/common.h: common/common.c: getprocname(): implement support for WIN32 parsing without a /proc [#2463]
- common/common.c, configure.ac: common/common.c: getprocname(): implement support for /proc/NNN/psinfo (Solaris/illumos) parsing [#2463]
- common/common.c: getprocname(): revise printed messages [#2463]
- common/Makefile.am, common/common.c, configure.ac: common/common.c: getprocname(): implement support for (Open)BSD parsing without a /proc [#2463]
- common/common.c: getprocname(): implement support for /proc/NNN/stat parsing [#2463]

2.312 2024-06-08 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: getprocname(): implement support for /proc/NNN/cmdline parsing [#2463]
- UPGRADING.adoc, clients/upsmon.c, common/common.c, docs/nut.dict, drivers/main.c, drivers/upsdrvctl.c, include/common.h, server/upsd.c: Pass "progname" through sendsignal*() methods to verify that we sendsignal*() via old PID only to same progname [#2463] Internal API change for common.c/h
- common/common.c: sendsignalpid(): comment about not-signaling PID<2

2.313 2024-06-07 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, common/common.c, configure.ac, include/common.h: Introduce getprocname() and checkprocname() for suspicious PID values, and helper parseprogbasename() [#2463]
- NEWS.adoc: rearrange entries

2.314 2024-06-06 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: shorten HCL title for Cyber Energy devices Asked via mailing list to not deference the USB VID:PID in the HCL title

2.315 2024-06-05 Andriy Gapon <avg@FreeBSD.org>

- clients/upsmon.c: clients/upsmon: restore handling of comm failure while on battery Commit 2647f026f7f0 from #2108 updated is_ups_critical() such that a communication failure (commstate == 0) while on battery (linestate == 0) would be treated as immediately entering critical state. There was no way to disable that behavior or add any grace period. As such, that change made DEADTIME parameter ineffective as lastpoll being stuck should be equivalent to commstate == 0 because any lastpoll update sets commstate to 1. This change removes special handling of that condition from is_ups_critical() and reverts to the prior behavior where recalc() looks at lastpoll and deadtime to set LB flag after the configured communication timeout.

2.316 2024-06-04 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: make use of NUT_DEBUG_SYSLOG tweak setting
- NEWS.adoc, common/common.c, conf/nut.conf.sample, docs/man/nut.conf.txt, include/common.h: Introduce a `NUT_DEBUG_SYSLO` environment variable [#2394]

2.317 2024-06-03 Jim Klimov <jimklimov+nut@gmail.com>

- docs/documentation.txt: update URL for Configuration Examples to directly fetch the latest PDF book, not go to the GH release page (fix typo)
- docs/documentation.txt: update links for Roger Price original page and replicas in NUT GitHub org
- docs/documentation.txt: update URL for Configuration Examples to directly fetch the latest PDF book, not go to the GH release page

2.318 2024-05-30 Nicola Fontana <ntd@entidi.it>

- docs/man/bicker_ser.txt: bicker_ser: improve styling of relay modes doc
- docs/man/bicker_ser.txt, drivers/bicker_ser.c: bicker_ser: move unofficial variables into "experimental" namespace
- drivers/bicker_ser.c: bicker_ser: register the shutdown.return instcmd
- drivers/bicker_ser.c: bicker_ser: enforce expected data size When receiving a packet of known data size, ensure that data size is exactly what expected. That should avoid later surprises, e.g. fiddling with bytes never received.

2.319 2024-05-28 Nicola Fontana <ntd@entidi.it>

- drivers/bicker_ser.c: bicker_ser: avoid GCC warnings Initialize the `parameter` struct to avoid GCC complains about "'parameter.value' may be used uninitialized in this function". This is not a real error because, if `bicker_write` is successful, that struct is populated properly.
- drivers/bicker_ser.c: bicker_ser: bump driver version
- docs/man/bicker_ser.txt: bicker_ser: add variables info to manpage Variables are mapped 1:1 to Bicker parameters, so the descriptions have been borrowed and adapted directly from the UPS Gen2 software manual.
- drivers/bicker_ser.c: bicker_ser: allow writing to Bicker parameters All Bicker parameters (at least the supported ones) can be changed, so enable writing and set proper ranges. Expose all parameters, even the non-standard ones.

2.320 2024-05-27 Nicola Fontana <ntd@entidi.it>

- drivers/bicker_ser.c: bicker_ser: ensure battery.charge.low is defined According to RFC-9271, that variable is part of the "Desktop PC Variables" set so it is expected to be present and its default value is 20 seconds.
- drivers/bicker_ser.c: bicker_ser: allow NULL dst in parameter handling The comments say to use `NULL` for discarding the results but bicker_receive_parameter() was accessing `dst->id`, effectively preventing it. Fix that bug and improve the code: now bicker_receive_parameter() validates the parameter id (so it can be used freely) and it always logs debugging info about the parameter.
- drivers/bicker_ser.c: bicker_ser: add id validation to bicker_get()
- drivers/bicker_ser.c: bicker_ser: make `dst` optional in bicker_write The `dst` argument is optional in every other function, so be consistent and make it optional also in this one.
- drivers/bicker_ser.c: bicker_ser: rename `parameter` to `dst` This should make clear that argument is just used for destination.

2.321 2024-05-24 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nut.exe.txt, docs/nut.dict: suggest some PowerShell magic to prepare Windows Firewall for upsd [#2446, #2455]
- scripts/Windows/wininit.c, docs/man/nut.exe.txt: introduce "nut.exe start/stop" wrappings [#2455]
- scripts/Windows/wininit.c: introduce an SvcExists() method [#2455]
- scripts/Windows/wininit.c: clarify that this is what becomes "nut.exe" normally [#2446]
- docs/man/nut.exe.txt: mention `net start/stop` to manage Windows services [#2446, #2455]

2.322 2024-05-23 Nicola Fontana <ntd@entidi.it>

- drivers/bicker_ser.c: bicker_ser: expose mappable parameters Every Bicker parameter that has a correspondence in nut-names.txt has been mapped. If the parameter is disabled on the device, no NUT variable is created. If the NUT variable is set to an empty string, the parameter is reset and disabled on the device and that NUT variable is removed.
- drivers/bicker_ser.c: bicker_ser: add sanity checks to bicker_set These devices seem to be picky on what you use to set parameters.
- drivers/bicker_ser.c: bicker_ser: make parameter handling less error prone Using an in/out struct and making some specific field mandatory is cumbersome and error prone. Now the data needed for setting or getting parameters is explicitly required by the arguments.

2.323 2024-05-22 Nicola Fontana <ntd@entidi.it>

- drivers/bicker_ser.c: bicker_ser: refactor to clarify packet manipulation Change BICKER_PACKET from a constant value to a macro that depends on the data length. This should make clear that the packet size depends directly from the data size. Refactored some code here and there trying to minimize the presence of magic numbers and clarify the intentions.
- drivers/bicker_ser.c: bicker_ser: use proper format modifiers in logs Ensure the format string in logging messages is the correct one without subcasting. Furthermore, due to the promotion rules of the C language (where any given type, even unsigned, is promoted to int when possible), explicitly cast to unsigned where required.
- drivers/bicker_ser.c: bicker_ser: use uint8_t for bytes instead of char `char` is by default signed and (as the name implies) designed to access string characters. For accessing bytes, the `uint8_t` type is more appropriate.
- drivers/bicker_ser.c: bicker_ser: cosmetic fixes
- drivers/bicker_ser.c: bicker_ser: fix alignment and endianness problems Accessing an uint16_t on odd addresses is not portable. Avoid having to deal with that issue by always constructing words mathematically from single bytes. This also solves any endianness difference.
- drivers/bicker_ser.c: bicker_ser: fix string dstate setting User provided strings could contain printf special sequences and as such they should never be used in the format argument of dstate_setinfo().
- drivers/bicker_ser.c: bicker_ser: differentiate between error and unsupported When a command is unsupported, the "\x01\x03\xEE\x07 response packet is returned. This is different from a response packet with a wrong command index. WARNING: the "unsupported" packet has been found sperimentally and it is an undocumented feature.

2.324 2024-05-21 Nicola Fontana <ntd@entidi.it>

- drivers/bicker_ser.c: bicker_ser: add parameter support Added the needed infrastructure for getting and setting parameters. Actually the only parameter that is surely working is "ups.delay.start".
- drivers/bicker_ser.c: bicker_ser: use variable for low battery limit
- drivers/bicker_ser.c: bicker_ser: add more state variables Identification fields are now queried from the device. Also "battery.charge" is now set properly.
- drivers/bicker_ser.c: bicker_ser: refactor to allow more complex packet handling I'm planning to add functions for reading strings, i.e. without knowing beforehand the size of the response packets. This required some refactoring of the receiving functions. Also, while at it, added docblocks to many Bicker functions, hopefully easing the maintenance in the future.
- drivers/bicker_ser.c: bicker_ser: explicitly pass the command index In the previous implementation the command index was always *\x03*, as stated by the UPSIC manual. After new evidence has been found (UPS-Gen2 software user manual), it came out there are much more commands grouped in different indexes.
- drivers/bicker_ser.c: bicker_ser: update protocol documentation Bicker told me to refer to the UPS Gen software's user manual for more details on their protocol, and in fact that manual contains much more info. Added a summary of available commands to the comments, as a quick reference for feature implementation.

2.325 2024-05-18 Nicola Fontana <ntd@entidi.it>

- NEWS.adoc: announce bicker_ser driver [#2318]

2.326 2024-05-18 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nut-scanner.c: clarify logs about "SKIPPED" scans as not requested "or supported"
- tools/nut-scanner/nut-scanner.c: clarify "old nut" (libupsclient) vs. avahi detection in messages/help
- tools/nut-scanner/nutscan-init.c: only set nutscan_avail_snmp=1 if WITH_SNMP_STATIC in nutscan_init() ... and let debug log know we skipped the library search, and why.
- tools/nut-scanner/nutscan-init.c, NEWS.adoc: avoid always considering "Old NUT" method available [fallout of #2246] If `libupsclient.so` was not loaded, we can not really use this search. Seems like a copy-paste problem mis-adding the NUT Simulation support.

2.327 2024-05-17 Nicola Fontana <ntd@entidi.it>

- docs/man/Makefile.am, docs/man/bicker_ser.txt, docs/nut.dict: bicker_ser: add manpage
- drivers/bicker_ser.c: bicker_ser: use length macros to increase expressiveness
- drivers/bicker_ser.c: bicker_ser: add big-endian platform support
- data/driver.list.in: add bicker_ser based UPSes
- drivers/bicker_ser.c: bicker_ser: add shutdown support The protocol supports shutdown after a custom delay settable between 0 and 255 seconds. Unfortunately the real device (UPSIC-2403D) seems to always enforce a 2 seconds delay.

2.328 2024-05-16 Nicola Fontana <ntd@entidi.it>

- drivers/Makefile.am, drivers/bicker_ser.c: bicker_ser: Bicker UPSes based on PSZ-1063 Add a new driver for Bicker DC UPS systems based on the PSZ-1063 extension module. This includes UPSIC-1205, UPSIC-2403 and DC2412-UPS(LD) models.

2.329 2024-05-16 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am, .gitignore: use unique temporary filenames in $(NUT_SPELL_DICT).usage-report, ChangeLog.adoc and .adoc.adoc-parsed rules to avoid surprises TODO: Look at why we might call generation of ChangeLog.adoc several times simultaneously and the make job server would not prevent that?
- Makefile.am: avoid spurious "find: .../ChangeLog: No such file or directory" with some "test" command implementations [nut-website#52] Some `test`'s evaluate all conditions first and only handle them via boolean logic later. Oh the audacity!
- scripts/augeas/Makefile.am: fix check in out-of-tree builds (e.g. distcheck) [#657]

2.330 2024-05-15 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/Makefile.am: disable "make install" for "html-chunked" documentation [#2445] These documents are delivered as an horde of files spread in a nested directory hierarchy for each document, and the `install` scripts that automake uses seem to struggle with that. Maybe just need to find a suitable automagic keyword - but this can wait.
- scripts/Windows/wininit.c: help(): report the confpath() to configure the daemons [#2432]
- NEWS.adoc, docs/man/Makefile.am, docs/man/nut.exe.txt: add a man page of NUT for Windows wrapper for all-in-one service [#2432]

- NEWS.adoc, UPGRADING.adoc, docs/nut.dict: note the enabled installation of built PDF and HTML files [#2445]
- scripts/Windows/build-mingw-nut.sh: make sure docs are built as requested (and possible)
- scripts/Windows/build-mingw-nut.sh: enable HTML (man) page builds where possible
- scripts/Windows/build-mingw-nut.sh: neuter the use-case of --without-pkg-config (not implemented in m4 - do not confuse ourselves)
- Makefile.am: typo fix man-html⇒html-man
- configure.ac, docs/Makefile.am, docs/man/Makefile.am: support actually installing built PDF and HTML docs

2.331 2024-05-14 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/wininit.c: introduce "-D" CLI option support to request debug of this and called NUT programs
- scripts/Windows/wininit.c: C pedantic warnings - mark methods with no args as such (void)
- scripts/Windows/wininit.c: when the service fails to start… [#2430] * as a console app that tried to be a service - report the error not only in Event Log but also on console; * for other issues write the LastError code to Event Log; * always exit with error code
- scripts/Windows/wininit.c: when the program fails to start and has no arguments, report help() and exit with error code [#2432]
- scripts/Windows/wininit.c: add help() and ways to request it and NUT version info [#2432]
- scripts/Windows/wininit.c: update comments
- scripts/Windows/wininit.c: parse_nutconf(): update emitted messages when starting/stopping daemons
- scripts/Windows/wininit.c: rectify whitespace (coding style)
- clients/upsmon.c: clear_pdflag(): fix message markup and content for a non-NUT killpower file [#2444]
- drivers/mge-hid.c, NEWS.adoc: extend mge_model_names[] for Eaton 5SC and 5PX series [#2380]
- drivers/mge-hid.c: indent falback round() implem consistently
- drivers/mge-hid.c: indent vendor ID macros consistently
- drivers/mge-hid.c: bump © for AQ
- NEWS.adoc, docs/nut.dict: announce hwmon_ina219 driver [#2430]
- drivers/hwmon_ina219.c: battery_voltage_params_init() comment about not re-evaluating during driver uptime [#2430]
- drivers/hwmon_ina219.c: scan_hwmon_ina219(): make use of detect_ina219() a bit more idiomatic and log a skipped non-ina219 location [#2430]
- drivers/hwmon_ina219.c: upsdrv_help(): drop sysfs_dir setting - it is an addvar() auto-documented feature [#2430]
- drivers/hwmon_ina219.c: upsdrv_help(): clarify sysfs_dir setting [#2430]
- docs/man/hwmon_ina219.txt: update default.battery.voltage.nominal description [#2430] Clarified existing pre-set combos recognized by the driver code.

2.332 2024-05-10 Jim Klimov <jimklimov@gmail.com>

- docs/Makefile.am: re-evaluate calls to "make ../ChangeLog" always, now that the parent Makefile knows when to slack off [nut-website#52]
- Makefile.am, docs/Makefile.am: Makefile.am: update ChangeLog recipe to log messages about its work/skip/fail decisions [nut-website#52]
- Makefile.am: update ChangeLog recipe to be a no-op if the existing file is newer than anything in a NUT_GITDIR (may be not "./git/" directly) [nut-website#52]
- Makefile.am: update ChangeLog recipe to be a no-op if the existing file is newer than .git/HEAD [nut-website#52] if test -e .git/HEAD && (rm -f "`find "$@" -not -newer .git/HEAD`" |\| true) 2>/dev/null && ls -la .git/HEAD "$@" 2>/dev/null ; then SKIP ; else WORK ; fi Hopefully this takes care of corner cases: * No .git/HEAD ⇒ WORK (may be unsuccessfully, maybe not - e.g. Git submodules referring to parent) * `rm` fails, maybe `find` returns empty ⇒ DON'T CARE, go to LS * `ls` fails (one of target files is absent - e.g. ChangeLog removed or never was there) ⇒ WORK Only if the ChangeLog is still there after the attempt on its life, SKIP and keep it
- docs/download.txt: update NetBSD links to use correct http(s) schemas [nut-website#52]

2.333 2024-05-10 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: mention refactoring and warning-fixing during NUT v2.8.3 cycle
- tools/nut-scanner/nutscan-display.c: fix the order of calloc() parameters [#2437, #823]
- autogen.sh: clarify that the script succeeded so it is easier to see in build logs
- tools/nut-usbinfo.pl: find_usbdevs(): do not explode if find() hits the "." directory; also quickly skip some binary file patterns
- tools/nut-usbinfo.pl: if DEBUG then trace visited directories and files
- include/nutipc.hpp: template-id not allowed for destructor in C\+\+20: clang(-14) insists on having it anyway [#2437]
- include/nutipc.hpp: template-id not allowed for destructor in C++20: C\+\+11 also does not insist on having it [#2437]
- include/nutipc.hpp: template-id not allowed for destructor in C\+\+20 [#2437]

2.334 2024-05-07 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: update for hwmon_ina219 man page [#2430]
- docs/nut.dict: apply changes from upstream NUT sources

2.335 2024-05-06 Jim Klimov <jimklimov+nut@gmail.com>

- include/nutconf.hpp: annotate (for older C+\+) the methods which can throw() [#2294]
- include/nutconf.hpp: refactor exception-throwing in Settable<T> getters [#2433]
- include/nutconf.hpp: in Settable<T> operators to "return _value", throw() if it was not yet set() at all or since last clear() [#2294, #2433]
- common/nutwriter.cpp: serializeCertHost(): try to avoid "may be used uninitialized in this function" warnings [#2294, #2433]
- NEWS.adoc: update the gamatronic news with a note that it fixed a segfault seen in the field [#2427]

2.336 2024-05-03 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/gamatronic.c: report a response buffer overflow as well as an invalid length string [#2427]
- drivers/gamatronic.c: report a response buffer overflow (should not happen though) [#2427]
- NEWS.adoc: note the update of gamatronic driver [#2427]
- drivers/gamatronic.c: avoid hard-coded buffer length, make it a macro [#2427]

2.337 2024-05-02 Mike Jager <mike@mikej.net.nz>

- drivers/gamatronic.c: bump driver version Co-authored-by: Sam Cook <github@sam.net.nz>
- drivers/gamatronic.c: don't trust UPS-provided data length Co-authored-by: Sam Cook <github@sam.net.nz>
- drivers/gamatronic.c: don't strcpy overlapped strings Co-authored-by: Sam Cook <github@sam.net.nz>

2.338 2024-05-02 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usbhid-ups.c, NEWS.adoc: complete the support of onlinedischarge_log_throttle_hovercharge setting [#2215, #2423]
- drivers/usbhid-ups.c: update messages and comments about onlinedischarge_log_throttle_*charge [#2215, #2423]

2.339 2024-05-01 Jan Viktorin <jan.viktorin@gmail.com>

- data/driver.list.in, docs/man/Makefile.am, docs/man/hwmon_ina219.txt, drivers/Makefile.am, drivers/hwmon_ina219.c: Support for INA219 over hwmon on Linux INA219 [1] is a monitor of current. It is accessible via I2C. In the Linux Kernel, it is integrated via hwmon subsystem (thus, the I2C is hidden). When INA219 is installed to monitor current of batteries, it can be used as a simple UPS. This driver is intended to be used with CM4-POE-UPS-BASE [2], a baseboard for Raspberry PI Compute Module 4. With default setting, using 3x3000 mAh batteries, $_{30\% \text{ per-CPU avg load, }\backslash}$200 kB/s of reads and writes to SSD disk, the system withstood ~6 hours without power. When remaining \~15 %, it took another 6,5 minutes before it died (that's enough time to usually shutdown gracefully): 20240501 165801 100 NA NA [OL] NA NA 20240501 165831 96 NA NA [OB DISCHRG] NA NA … 20240501 231306 21 NA NA [OB DISCHRG] NA NA 20240501 231336 19 NA NA [OB DISCHRG] NA NA 20240501 231406 19 NA NA [OB DISCHRG] NA NA 20240501 231436 19 NA NA [OB DISCHRG] NA NA 20240501 231506 17 NA NA [OB DISCHRG] NA NA 20240501 231536 17 NA NA [OB DISCHRG] NA NA 20240501 231606 17 NA NA [OB DISCHRG] NA NA 20240501 231636 14 NA NA [FSD OB DISCHRG LB] NA NA 20240501 231706 13 NA NA [FSD OB DISCHRG LB] NA NA 20240501 231736 13 NA NA [FSD OB DISCHRG LB] NA NA 20240501 231806 13 NA NA [FSD OB DISCHRG LB] NA NA 20240501 231836 10 NA NA [FSD OB DISCHRG LB] NA NA 20240501 231906 11 NA NA [FSD OB DISCHRG LB] NA NA 20240501 231936 11 NA NA [FSD OB DISCHRG LB] NA NA 20240501 232006 9 NA NA [FSD OB DISCHRG LB] NA NA 20240501 232036 8 NA NA [FSD OB DISCHRG LB] NA NA 20240501 232106 7 NA NA [FSD OB DISCHRG LB] NA NA 20240501 232136 5 NA NA [FSD OB DISCHRG LB] NA NA 20240501 232206 4 NA NA [FSD OB DISCHRG LB] NA NA 20240501 232236 2 NA NA [FSD OB DISCHRG LB] NA NA 20240501 232306 0 NA NA [FSD OB DISCHRG LB] NA NA [1] https://www.ti.com/lit/ds/symlink/ina219.pdf [2] https://www.waveshare.com/wiki/CM4-POE-UPS-BASE
- data/driver.list.in: fix whitespace Fixes: a816677fcf0e ("data/driver.list.in: add CP1350PFCLCD")

2.340 2024-04-29 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/augeas/Makefile.am: disable back augparse test - only passes on some distros so far [#657] Add make targets for custom testing though
- common/nutwriter.cpp: NutConfConfigWriter::writeConfig(): encase in pragmas to hush warnings about macro code [#2294]
- scripts/augeas/tests/test_nut.aug, scripts/augeas/tests/test_nut_flaky.aug: scripts/augeas/tests/test_nut_flaky.aug: added to relocate a test case which passes on some distros and fails on others [#657]

- scripts/augeas/nutupsconf.aug.tpl: avoid matching "/" in default.* or override.* expressions [#2294] Such possibility makes augtools-1.12.0 upset (fixed since 1.13.0, see https://github.com/hercules-team/augeas/issues/668 for details)
- scripts/augeas/nutupsconf.aug.tpl: reshuffle end-of-line chars in regex [#2294]
- include/nutconf.hpp, common/nutwriter.cpp: error: must #include <typeinfo> before using typeid [#2294]
- NEWS.adoc: document that augeas lens have remaining issues
- common/nutwriter.cpp: UpsmonConfigWriter::writeConfig(): try to avoid "may be used uninitialized in this function" warnings [#2294]
- scripts/augeas/tests/test_nut.aug: add a comment about passing thest that probably should have failed [#657]
- scripts/augeas/tests/test_nut_fixme.aug: Add scripts/augeas/tests/test_nut_fixme.aug for known-broken corner cases [#657]
- include/nutconf.hpp: BoolInt: avoid "if (b)" constructs in favor of explicit call to operator via "if (b == true)" [#2294]
- include/nutconf.hpp: align new UpsConfiguration entries cosmetically [#2294]
- include/nutconf.hpp: fix comment to reconcile C and shell text [#2294]
- include/nutconf.hpp: handle more "ups.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294]

2.341 2024-04-27 Jim Klimov <jimklimov+nut@gmail.com>

- include/nutconf.hpp: document how to discover keywords for UpsConfiguration class [#2294]

2.342 2024-04-26 Jim Klimov <jimklimov@gmail.com>

- server/upsd.c, NEWS.adoc: log-trace daemon exit and clarify other messages [#2417]

2.343 2024-04-26 Jim Klimov <jimklimov+nut@gmail.com>

- include/nutconf.hpp: refactor UpsConfiguration methods which point to "flag" not just "bool" or "str" entities [#2294] Toss in other GenericUPS_* values Sort alphabetically
- include/nutconf.hpp, common/nutconf.cpp: extend setFlag() semantics to true/false with implementation handling remove() where needed [#2294]
- drivers/blazer.c, drivers/blazer_ser.c, drivers/blazer_usb.c: drivers/blazer*: fix "protocol" to be VAR_VALUE like elsewhere (and de-facto), not VAR_FLAG
- drivers/nut-ipmipsu.c: reformat commented-away contents of upsdrv_makevartable() Also restore planned "sensorid" line lost in 71a6c17a09f6ace3a71525e38c10d47daca78e60
- scripts/augeas/tests/test_nut.aug: update comment [#657]
- scripts/augeas/tests/test_nut.aug: add a test for comment persistence in config
- scripts/augeas/nutupsconf.aug.tpl, scripts/augeas/tests/test_nut.aug: scripts/augeas/nutupsconf.aug.tpl: fix and test detection of wildcard keys (default\|override).*
- NEWS.adoc, docs/nut.dict, scripts/augeas/Makefile.am: scripts/augeas/Makefile.am, NEWS.adoc: re-enable augeas "check-local" [#657]
- scripts/augeas/tests/test_nut.aug: revise handling of "Dummy UPS" in tests [#657, #2294]
- scripts/augeas/Makefile.am: rearrange "if HAVE_AUGPARSE ⇒ check-local" clause
- scripts/augeas/nutnutconf.aug.in: handle "nut.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294]

- scripts/augeas/nutupsconf.aug.tpl: handle common "ups.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294]
- scripts/augeas/gen-nutupsconf-aug.py.in: bump © years
- scripts/augeas/nutupsdusers.aug.in: reword upsd_users_upsmon_type_re [#2294]
- scripts/augeas/nutupsmonconf.aug.in: handle "upsmon.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294]
- include/nutconf.hpp, common/nutconf.cpp, common/nutwriter.cpp, tests/nutconf_parser_ut.cpp, tests/nutconf_ut.cpp: typo fix poolFreq* ⇒ pollFreq*
- scripts/augeas/nutupsdconf.aug.in: handle "upsd.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294]
- include/nutconf.hpp, tests/nutconf_ut.cpp: revise UpsConfiguration::setUsbSetAltInterface() logic to not save a bogus -1 [#2294]

2.344 2024-04-25 Jim Klimov <jimklimov+nut@gmail.com>

- common/nutconf.cpp, include/nutconf.hpp, tests/nutconf_ut.cpp: include/nutconf.hpp, common/nutconf.cpp: introduce GenericConfiguration::getDouble() and setDouble() methods [#2294]
- include/nutconf.hpp, tests/nutconf_ut.cpp: add "IntHex" fields to UpsConfiguration and test different parsing variants [#2294]
- include/nutconf.hpp, common/nutconf.cpp: introduce GenericConfiguration::getIntHex() and setIntHex() methods [#2294]
- include/nutconf.hpp: include/nutconf.hpp, common/nutconf.cpp, common/nutwriter.cpp, tests/nutconf_ut.cpp: handle and test "ups.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294]
- include/nutconf.hpp: comment concerns about "default.**" and "override.**" supportability in UpsConfiguration class [#2294]
- include/nutconf.hpp: refactor class UpsConfiguration methods with idiomatic setBool()/getBool() [#2294]
- include/nutconf.hpp, common/nutconf.cpp: introduce GenericConfiguration::getBoolInt() and setBoolInt() method set [#2294]
- include/nutconf.hpp, common/nutconf.cpp: introduce GenericConfiguration::getBool() and setBool() method set [#2294]
- include/nutconf.hpp, common/nutconf.cpp: introduce GenericConfiguration::getFlag() and setFlag() methods [#2294]
- include/nutconf.hpp: add BoolInt constructors from supported data types [#2294]
- common/nutconf.cpp: wrap long lines and standardize style in method declarations

2.345 2024-04-24 Jim Klimov <jimklimov+nut@gmail.com>

- include/nutconf.hpp, common/nutconf.cpp, common/nutwriter.cpp, tests/nutconf_ut.cpp: handle and test "nut.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294] Note that "nut.conf" options follow shell syntax, unlike most other NUT config files
- common/nutwriter.cpp: introduce helper macro SHELL_CONFIG_DIRECTIVEX() [#2294]
- include/nutwriter.hpp, common/nutwriter.cpp: update comments to match classes to config files [#2294]
- conf/nut.conf.sample, docs/man/nut.conf.txt: document NUT_DEBUG_LEVEL envvar support

2.346 2024-04-23 Jim Klimov <jimklimov+nut@gmail.com>

- include/nutconf.hpp, common/nutconf.cpp, common/nutwriter.cpp, tests/nutconf_ut.cpp: handle and test "upsmon.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294]
- common/nutwriter.cpp, include/nutconf.hpp: include/nutconf.hpp, include/nutwriter.cpp: extend CertHost class with BoolInt fields
- include/nutconf.hpp: extend BoolInt class with a constructor
- include/nutconf.hpp, tests/nutconf_parser_ut.cpp: extend BoolInt class with toString() and << for practical use (and test it) It seems that the assignment operator to string can only be done in the std::string class - a casting operator does not suffice, so the next best things are streaming and explicit methods to emit strings. While at it, also implement assignment into BoolInt objects via <<
- include/nutconf.hpp, tests/nutconf_parser_ut.cpp: extend BoolInt class with a bool01 toggle (and test it) Allows to enable/disable comparison of bool value to int 0/1 values.
- include/nutconf.hpp, tests/nutconf_parser_ut.cpp: include/nutconf.hpp, common/nutwriter.cpp, tests/nutconf_ut.cpp: introduce and unit-test a BoolInt helper class [#2402]
- include/nutconf.hpp, common/nutwriter.cpp: introduce struct nut::CertHost (for upsmon.conf...) [#2402]
- tests/nutconf_parser_ut.cpp: typo fixes in test names; whitespace rectification

2.347 2024-04-22 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: drop key words absent in both current NUT and NUT-WEBSITE sources [#2402]

2.348 2024-04-22 Jim Klimov <jimklimov+nut@gmail.com>

- tests/nutconf_ut.cpp: NutConfigUnitTest::testUpsdConfiguration(): use NutConfigUnitTest::check() with the option to discard double-quotes from content (paths) for a fallback comparison Primarily useful to check this new check() method itself. And because nutwriter.cpp implementation was updated to always use double-quotes for the string values with paths (looking forward to running on MacOS and Windows).
- include/nutconf.hpp, common/nutwriter.cpp, common/nutconf.cpp: handle "upsd.conf" keywords introduced between NUT 2.6.5 and 2.8.2 [#2294]
- include/nutconf.hpp, common/nutwriter.cpp: introduce struct nut::CertIdent (for upsd.conf, upsmon.conf...) [#2402]
- common/nutconf.cpp: implement StringToSettableNumber() for Settable<bool> with NUT boolean keyword support
- tests/nutconf_ut.cpp: extend NutConfigUnitTest::check() with an option to discard double-quotes from content for a fallback comparison
- include/nutconf.hpp, common/nutconf.cpp, common/nutwriter.cpp, tools/nutconf/nutconf-cli.cpp: rename nut::UpsmonConfiguration
  ⇒ isPrimary [#840]

2.349 2024-04-21 Jim Klimov <jimklimov+nut@gmail.com>

- include/nutconf.hpp: UpsdUsersConfiguration: update comments about existing methods [#2294]

2.350 2024-04-19 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut_driver_enumerator_main(): do not re-save name when live reload of a driver sufficed [#2410]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut_driver_enumerator_main(): save new content checksum and name when live reload of a driver sufficed and service is not redefined [#2410]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut_driver_enumerator_main(): differentiate UPSS (service instance name) and CURR_DEV (device section name) to reload a driver [#2410]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut_driver_enumerator_main(): if driver program reload failed, retry verbosely (optionally) to help troubleshooting
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut_driver_enumerator_main(): report if we "Got some changes to reconcile..." with specific service instance names [#2410]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: clarify that upslist_savednames_find_mismatch() is reserved for future features and is incomplete [#682, #2410]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: revisit upslist_savednames_find_missing() and upslist_savednames_find_mismatch([#682, #2410] * Document better
- Fix envvars used in queries * Fix matching of TABCHAR
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: log if NEW_CHECKSUM is empty - that it happened and what it means [#2410]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, NEWS.adoc: fix round parentheses to curly braces, so we still recognize NEW_CHECKSUM for nut-driver reloads [#2410, fallout of #682]

2.351 2024-04-18 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: remove words only relevant to nut-website (which are parts of larger tokens) [#2402]
- docs/Makefile.am: clarify the NUT_SPELL_DICT used when a spelling check fails [#2402]

2.352 2024-04-17 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: remove words only relevant to nut-website [#2402]
- common/nutipc.cpp: fix include order for common.h
- NEWS.adoc, drivers/main.c: drivers/main.c: move "-d" CLI option handling also to start of program [fallout of #2259] We consult the value of `dump_data` to decide about foreground mode, but after moving the `-D` option handling (and this decision) upwards to facilitate early debugging, the variable is never modified in time anymore. Thanks for the catch to Eric Clappier and IPM/42ity team.
- drivers/snmp-ups.c: fix whitespace
- tests/NIT/nit.sh: rename logged NIT_SCRIPT_PID⇒PID_NIT_SCRIPT
- tests/NIT/nit.sh: introduce testgroup_sandbox_upsmon_master() and sandbox_start_upsmon_master()
- clients/upsmon.c: clarify log message about absence of explicit POWERDOWNFLAG setting [#321]
- tests/NIT/nit.sh: introduce upsmon_start_loop() and PID_UPSMON tracking
- tests/NIT/nit.sh: generatecfg_upsmon*(): fix MONITOR line markup
- server/upsd.c: get_ups_ptr(): log unresolved name for troubleshooting

- tests/NIT/nit.sh: generatecfg_upsmon_trivial(): fix SHUTDOWNCMD to use the expanded NUT_STATEPATH value
- clients/upsmon.c, common/common.c, drivers/main.c, drivers/upsdrvctl.c, include/common.h, server/upsd.c: common/common.c et al: Introduce NUT_SENDSIGNAL_DEBUG_LEVEL_KILL_SIG0PING value for nut_sendsignal_debug_level [#1782]
- tests/NIT/nit.sh: avoid stopping daemons when handling NIT_CASE =\~ generatecfg_*\|is*
- tests/NIT/nit.sh: avoid removing TESTDIR when handling NIT_CASE =\~ generatecfg_*\|is*
- tests/NIT/nit.sh: unset DEBUG_SLEEP when handling NIT_CASE =\~ generatecfg_*\|is*
- tests/NIT/nit.sh: in NIT.env, hide "DEBUG_SLEEP|PATH\|LD_LIBRARY_PATH*" settings as comments
- tests/NIT/nit.sh: fix updatecfg_upsmon_supplies()
- tests/NIT/nit.sh: add PATH into generated NIT.env
- tests/NIT/nit.sh: add a warning comment about generated NIT.env vs. re-runs of the script
- common/nutipc.cpp, common/nutstream.cpp, include/nutipc.hpp, include/nutstream.hpp, include/nutwriter.hpp, tests/cpputest-client.cpp, tests/cpputest.cpp, tests/example.cpp, tests/nutclienttest.cpp, tests/nutconf_parser_ut.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp: C+\+ test and other sources: bump and format © headings
- NEWS.adoc, common/common.c, common/nutipc.cpp, include/common.h: common/common.c et al: introduce a rootpidpath() method
- common/common.c: cache a non-NULL "path" found by altpidpath(), confpath(), dflt_statepath() on the first call Speed up work upon subsequent calls, and be sure to return the same value consistently.
- tests/NIT/nit.sh: also set NUT_PIDPATH for e.g. upsmon
- tests/NIT/nit.sh: allow to run generatecfg*() helpers as a NIT_CASE
- tests/NIT/nit.sh: generatecfg_upsmon_trivial(): tweak SHUTDOWNCMD to record its attempts into a "$NUT_STATEPATH/upsmon. file
- tests/NIT/nit.sh: extend generatecfg_upsmon_*() methods with a way to customize power supply count (served by MONITOR, required by MINSUPPLIES)
- tests/NIT/nit.sh: fix comment typo
- tests/NIT/nit.sh: populate a "$NUT_CONFPATH/NIT.env" to facilitate external testing (notably with DEBUG_SLEEP and test daemons left running)

2.353 2024-04-16 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, clients/upsmon.c, clients/upsmon.h, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/nut.dict: clients/upsm et al: introduce OBLBDURATION config toggle [#321]
- NEWS.adoc, data/driver.list.in, docs/nut.dict: data/driver.list.in, NEWS.adoc: add support-known for Visench C1K [#2395]
- drivers/nutdrv_qx.c: fix whitespace

2.354 2024-04-15 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: update for nut-website

2.355 2024-04-15 Jim Klimov <jimklimov+nut@gmail.com>

- .gitignore, Makefile.am, docs/Makefile.am: Makefile.am, docs/Makefile.am: add recipe for spellcheck-report-dict-usage to prepare a $(NUT_SPELL_DICT).usage-report [#2402] Facilitate maintenance of nut-website's spell checking dictionary with words unique to the site sources.
- scripts/installer/Makefile.am: make sure scripts/installer/common/README_ipp-os-shutdown.adoc-spellchecked is cleaned away
- NEWS.adoc, drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c, NEWS.adoc: avoid spurious syslog of "(nut_)libusb_get_string Success" [#2399]

2.356 2024-04-13 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: Hush the fopen(pidfile) messages **before** dealing with "INSTCMD driver.exit" so that we can make that verbose again if dialog started but failed to stop the other driver [#2384, #2392]
- drivers/main.c: change messages around "INSTCMD driver.exit" activity [#2392]
- drivers/main.c: silence compiler warnings about NUT_STRARG() for "INSTCMD driver.exit" in some builds [#2392]
- drivers/main.c: use nut_upsdrvquery_debug_level verbosity toggle to hush scary noise from attempts to "driver.exit" a sibling [#1782, #2392, #2384]
- drivers/main.c: when looping to SIGTERM a duplicate driver, check if we got a signal ourselves (e.g. user pressed Ctrl\+C)
- drivers/upsdrvquery.c, drivers/upsdrvquery.h: drivers/upsdrvquery.{c,h}: extend with nut_upsdrvquery_debug_level verbosity toggle [#1782, #2392, #2384]
- drivers/upsdrvctl.c: stop_driver(), signal_driver_cmd(): use nut_sendsignal_debug_level verbosity toggle to hush initial fopen(pidfile) scary noise [#1782]
- drivers/upsdrvctl.c: annotate "ifdef WIN32" locations waiting for #1916 to be solved

2.357 2024-04-12 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, data/cmdvartab, docs/man/nutupsdrv.txt, docs/man/upsdrvctl.txt, drivers/main.c, drivers/main.h, drivers/upsdrvctl.c: drivers/main.{c,h}, drivers/upsdrvctl.c, data/cmdvartab, man pages: Implement "INSTCMD driver.exit" [#2392]
- drivers/upsdrvctl.c: help(): prepend sections with a blank line
- drivers/upsdrvctl.c: bump © years and primary authors
- drivers/main.c: bump © year
- drivers/main.c: properly indent cmd/pidfile handling and annotate ends of large clauses
- drivers/main.c, NEWS.adoc: handle "-FF" to process PID files (and competing driver instances) same as when backgrounding [#2384]
- drivers/main.c: add debug tracing for interactions with PID file and "Duplicate driver instance" [#2384]

2.358 2024-04-11 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/riello_ser.txt, drivers/riello_ser.c, NEWS.adoc: port "localcalculation" feature from riello_ser [#1692, #2390]
- docs/man/riello_usb.txt: drop extra "EXTRA ARGUMENTS" title; wrap long lines [#1692]

2.359 2024-04-07 Jim Klimov <jimklimov+nut@gmail.com>

- docs/developers.txt, docs/nut.dict: document some caveats about using IDEs to develop NUT

2.360 2024-04-06 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c, server/upsd.c, drivers/main.c, drivers/upsdrvctl.c: fflush(stdout) after printing the NUT program banner [#1783] Forking daemons suffer from unflushed buffers cloned into every fork() and printed for every exit() — of each forked child process.
- clients/upsmon.c: pepper with a few debug printouts
- scripts/systemd/README.adoc: suggest use of systemd drop-ins for unit customization [#1783]
- scripts/misc/notifyme-debug: Introduce scripts/misc/notifyme-debug helper/example
- docs/Makefile.am: update URL to asciidoc issue with --destination-dir [#281] The "asciidoc" github repo was apparently hidden as the python2 codebase, with "asciidoc-py(3?)" surviving with a separate issue/PR/... history. The discussion of interest is available in a snapshot on Archive.Org so far.
- docs/Makefile.am: refine SUFFIXES to not cause "bogus spellcheck call" situations Per experimentation, calls to create e.g. "asciidoc-vars.conf-spellchecked" without a SPELLCHECK_SRC_ONE (reported as bogus events) happened because of Makefile SUFFIXES entry "-spellchecked" causing it to be tried as an implicit prerequisite, e.g.: Considering target file *asciidoc-vars.conf*. Looking for an implicit rule for *asciidoc-vars.conf*. Trying pattern rule with stem *asciidoc-vars.conf*. Trying implicit prerequisite *asciidoc-vars.conf-spellchecked*. Found an implicit rule for *asciidoc-vars.conf*. Considering target file *asciidoc-vars.conf-spellchecked*. Looking for an implicit rule for *asciidoc-vars.conf-spellchecked*. Trying pattern rule with stem *asciidoc-vars.conf-spellchecked*. Trying implicit prerequisite *asciidoc-vars.conf-spellchecked,v*. Trying pattern rule with stem *asciidoc-vars.conf-spellchecked*. Trying implicit prerequisite *RCS/asciidoc-vars.conf-spellchecked,v*. Trying pattern rule with stem *asciidoc-vars.conf-spellchecked*. Trying implicit prerequisite *RCS/asciidoc-vars.conf-spellchecked*. Trying pattern rule with stem *asciidoc-vars.conf-spellchecked*. Trying implicit prerequisite *s.asciidoc-vars.conf-spellchecked*. Trying pattern rule with stem *asciidoc-vars.conf-spellchecked*. Trying implicit prerequisite *SCCS/s.asciidoc-vars.conf-spellchecked*. No implicit rule found for *asciidoc-vars.conf-spellchecked*. Finished prerequisites of target file *asciidoc-vars.conf-spellchecked*. No need to remake target *asciidoc-vars.conf-spellchecked*. Finished prerequisites of target file *asciidoc-vars.conf*. Prerequisite *asciidoc-vars.conf-spellchecked* is newer than target *asciidoc-vars.conf*. Must remake target *asciidoc-vars.conf*. Makefile:1302: update target *asciidoc-vars.conf* due to: asciidoc-vars.conf-spellchecked ... and indeed it is bogus. This little fix removes the situation and does not preclude the files without `.txt` exception (license etc.) getting spellchecked or prepped.
- clients/upsmon.c: clarify that lack of a running daemon PID file is OK when checking_flag (for POWERDOWNFLAG)
- NEWS.adoc, docs/nut.dict: use nut_sendsignal_debug_level verbosity toggle to hush initial fopen(pidfile) scary noise [#1782]
- server/upsd.c: use nut_sendsignal_debug_level verbosity toggle to hush initial fopen(pidfile) scary noise [#1782]
- drivers/main.c: use nut_sendsignal_debug_level verbosity toggle to hush initial fopen(pidfile) scary noise [#1782]
- clients/upsmon.c: use nut_sendsignal_debug_level verbosity toggle to hush initial fopen(pidfile) scary noise [#1782]
- common/common.c, include/common.h: extend with nut_sendsignal_debug_level verbosity toggle [#1782]
- clients/upsmon.c: do not be verbose in loadconfig() if we are just quietly checking killpower flag [#2383]

2.361 2024-04-05 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: americanize the verb ending [#321]
- clients/upsmon.c: support "reload_flag = -1" for help() [#321]
- docs/man/upsmon.conf.txt: suggest use of "upsmon -K" instead of direct lookups into POWERDOWNFLAG file; note recommended locations [#321]

- conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt: suggest the minimal functional content of upsmon.conf [#321]
- clients/upsmon.c: help(): call loadconfig() quietly and report the value or absence of explicit POWERDOWNFLAG setting [#321]
- clients/upsmon.c: loadconfig(): report absence of explicit POWERDOWNFLAG setting [#321]
- clients/upsmon.c: loadconfig(): report entering the method (and the config file used)
- clients/upsmon.c: loadconfig(): only upslogx() if active nut_debug_level is not negative
- clients/upsmon.c: addups(): only upslogx() if active nut_debug_level is not negative
- conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt: document that POWERDOWNFLAG must be configured (no compiled-in default in upsmon) [#321]
- NEWS.adoc: document the situation about POWERDOWNFLAG setting [#321]

2.362 2024-04-04 Jim Klimov <jimklimov+nut@gmail.com>

- docs/maintainer-guide.txt: remind to prepare a GitHub label for eventual issues with the new release
- docs/maintainer-guide.txt: remind to verify GPG checksums (and make sure sources are published) [#2381]

2.363 2024-04-03 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, drivers/libhid.c: Fix comments/docs around the `maxreport` flag for `usbhid-ups` driver, vs. `max_report_size` setting in code

2.364 2024-04-02 Jim Klimov <jimklimov+nut@gmail.com>

- docs/maintainer-guide.txt: update release ritual details
- data/driver.list.in: fix some comments with double quotes
- data/driver.list.in: note about comments
- docs/nut.dict: update for nut-website

2.365 2024-04-01 Jim Klimov <jimklimov+nut@gmail.com>

- docs/maintainer-guide.txt: update commit instructions for AC_INIT bumps
- configure.ac: bump AC_INIT to development version 2.8.2.1
- NEWS.adoc, UPGRADING.adoc, docs/docinfo.xml.in: Revert "NEWS.adoc, UPGRADING.adoc, docs/docinfo.xml.in: finalize text before NUT v2.8.2 release" This reverts commit fc9d6211b46955ce7961536cac53a2e10e248584.
- configure.ac: mark exact NUT v2.8.2 release Happy Fools' Day!
- docs/maintainer-guide.txt: update instruction
- Makefile.am: avoid parallelizing "doc" and "all-recursive" just in case (only follow up by "make doc") Maybe this is behind duplicate man page builds which tend to step on each other's toes.
- docs/maintainer-guide.txt: example command for tag remake
- docs/maintainer-guide.txt: example command fix
- .github/workflows/PyNUTClient.yml, NEWS.adoc, appveyor.yml, configure.ac, docs/docinfo.xml.in, scripts/Windows/build-mingw-nut.sh: Update versions for release of NUT v2.8.2

- drivers/adelsystem_cbi.c, drivers/al175.c, drivers/apcsmart.c, drivers/apcupsd-ups.c, drivers/asem.c, drivers/bcmxcp.c, drivers/belkin.c, drivers/belkinunv.c, drivers/bestfcom.c, drivers/bestfortress.c, drivers/bestuferrups.c, drivers/bestups.c, drivers/blazer_ser.c, drivers/blazer_usb.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dummy-ups.c, drivers/etapro.c, drivers/everups.c, drivers/gamatronic.c, drivers/generic_gpio_libgpiod.c, drivers/generic_modbus.c, drivers/genericups.c, drivers/huawei-ups2000.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/liebert-esp2.c, drivers/liebert.c, drivers/macosx-ups.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-utalk.c, drivers/microdowell.c, drivers/microsol-apc.c, drivers/netxml-ups.c, drivers/nut-ipmipsu.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c, drivers/optiups.c, drivers/phoenixcontact_modbus.c, drivers/pijuice.c, drivers/powercom.c, drivers/powerman-pdu.c, drivers/powerpanel.c, drivers/rhino.c, drivers/richcomm_usb.c, drivers/riello_ser.c, drivers/safenet.c, drivers/skel.c, drivers/sms_ser.c, drivers/snmp-ups.c, drivers/socomec_jbus.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/usbhid-ups.c, drivers/victronups.c: drivers/*.c: mass-bump DRIVER_VERSION values due to changes in main.c since NUT v2.8.1 release
- NEWS.adoc, UPGRADING.adoc, docs/docinfo.xml.in: finalize text before NUT v2.8.2 release
- docs/maintainer-guide.txt: top note about (not-)spellchecking this doc
- docs/maintainer-guide.txt: update release instructions, fix typos

2.366 2024-03-31 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: mention belkin-hid fix as also a regression fix [#2371]
- drivers/riello_usb.c: upsdrv_initinfo(): set batt_volt_* limit vars from nominal voltage alignment, then apply from settings or initial reading [#1692]
- drivers/riello_usb.c: upsdrv_initinfo(): set batt_volt_* limit vars from settings or initial reading [#1692]

2.367 2024-03-26 Jim Klimov <jimklimov+nut@gmail.com>

- tests/Makefile.am: EXTRA_DIST the test mock "program" source
- NEWS.adoc: document fixes for Belkin/Liebert readings
- tests/getexponenttest-belkin-hid.c, drivers/belkin-hid.c: absorb liebert_psi5_line_voltage_fun() into common liebert_line_voltage_fun Hopefully should help more devices than those which serve this or that HID subtree only. Follows up from PR #2369

2.368 2024-03-25 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/belkin-hid.c: fix liebert_line_voltage_fun() and friends for 0..500V range (cover 3-pole while we are at it) Not touching liebert_config_voltage_fun() at the moment as have no non-integer examples under hand to test against.
- tests/getexponenttest-belkin-hid.c: add tests for larger value ranges (over 200V)
- drivers/belkin-hid.c: comment expectations for liebert_line_voltage_fun() and friends
- tests/.gitignore, tests/Makefile.am: tests: no longer need a replica of belkin-hid.c in tests/ to build getexponenttest-belkin-hid Suffices that we #include it in the test source, and drivers/ are among include dirs
- tests/.gitignore, tests/Makefile.am, tests/driver-stub-usb.c, tests/{getexponenttest.c ⇒ getexponenttest-belkin-hid.c}: tests: rename getexponenttest ⇒ getexponenttest-belkin-hid since it became quite specific to that subdriver source Still, can serve as an example/blueprint for other drivers' tests.
- tests/getexponenttest.c: use our macros to avoid "comparing floating point with == or != is unsafe [-Werror,-Wfloat-equal]" [#2371]
- drivers/belkin-hid.c, tests/Makefile.am, tests/driver-stub-usb.c, tests/getexponenttest.c: drivers/belkin-hid.c: Revert modifications for unit-testing, arrange its build differently [#2371]
- drivers/belkin-hid.c, tests/.gitignore, tests/Makefile.am, tests/driver-stub-usb.c, tests/getexponenttest.c: Add unit tests for belkin-hid liebert_line_voltage_fun() and related methods [#2370]

- drivers/belkin-hid.c: whitespace fix
- drivers/belkin-hid.c: update © heading [#2369 follow-up]

2.369 2024-03-24 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/riello_usb.c: extend built-in default battery low/high range to match nutdrv_qx data for PbAc batteries [#1692]
- drivers/riello_usb.c, docs/man/riello_usb.txt: pick battery low/high range via known or configured battery.voltage.nominal [#1692]
- drivers/riello_usb.c, docs/man/riello_usb.txt: allow configurable battery.voltage.low/.high for localcalculation guesstimates [#1692]
- drivers/riello_usb.c: bump © and DRIVER_VERSION for "localcalculation" related support [#1692]
- drivers/riello_usb.c: comment the meaning of logical blocks changed by PR #1692

2.370 2024-03-23 Jim Klimov <jimklimov+nut@gmail.com>

- UPGRADING.adoc, NEWS.adoc: mention changes in tools/gitlog2changelog.py.in [#2360, #2366]
- tools/gitlog2changelog.py.in: when authorMustBeASCII, only parse str via unicode() if we did not shortcut it earlier, and fix a typo in encoding value
- tools/gitlog2changelog.py.in: trace absence of "unicode" type in some python bundles
- NEWS.adoc: Add Liebert PSI5 [#2369]

2.371 2024-03-22 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am, docs/Makefile.am: use abs_top_builddir for wrapper rules
- docs/Makefile.am, docs/man/Makefile.am: clarify default "all" target variants as requiring a prep
- Makefile.am: be sure to prep before the many docs-related targets
- Makefile.am: fix typo for "docs/man" prep for spellcheck target
- Makefile.am: clarify default "all" target variants
- docs/man/Makefile.am: typo fix in comments
- docs/man/apc_modbus.txt: update comments for libmodbus\+rtu_usb builds - with a static library suggestion [#2063]
- Jenkinsfile-dynamatrix: enable "autotools driven build with default configuration ... with fatal warnings" for all branch types Earlier enabled for fightwarn and PRs against stable branches, but not for master-branch builds themselves.
- tools/nut-scanner/scan_xml_http.c, tools/nut-scanner/scan_snmp.c: ignore potentially unreachable code in platforms-dependent range checks Same as 34056dd43261c92e9230e2d18ddf5e8f498d98e9 earlier.

2.372 2024-03-22 James R. Parks <jrjparks@zathera.com>

- drivers/belkin-hid.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: feat: Add support for Liebert PSI5 Adding support for the Liebert PSI5 model of UPS.

2.373 2024-03-21 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/apc_modbus.txt, docs/nut.dict: update manpage with instructions for USB-capable builds [#2063]
- m4/nut_check_libmodbus.m4: make it visible when some libmodbus is found, but does not support libusb while we want it (and will fail NUT configure later) [#2063]

2.374 2024-03-19 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/installer/make_package.sh: update comments
- scripts/installer/README.adoc, docs/nut.dict: update about directory layout and contents expected by make_package.sh
- scripts/installer/Makefile.am, scripts/installer/README.adoc, scripts/installer/nut: scripts/installer: avoid SCM-tracking a symlink to NUT source root

2.375 2024-03-18 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: for autotools-only builds, select by OS_DISTRO (avoide duplicates with OS_FAMILY)
- Jenkinsfile-dynamatrix: exclude GCC on OpenBSD 6.5 from autotools CI builds Old compiler that won't hush about warnings, pollutes CI dashboard. Equivalent builds handled by `ci_build.sh` are in quiet mode for the first compilation attempt (usually the only one, if all is OK) so these warnings are just not seen by build-log analysis parser.
- configure.ac, Makefile.am, docs/Makefile.am, tools/gitlog2changelog.py.in: detect if we should mangle ChangeLog.pdf section titles with non-ASCII contributor names
- docs/Makefile.am: hint to asciidoc/dblatex to trivialize section names into ASCII themselves Inspired by http://aerostitch.github.io/-misc/asciidoc/asciidoc-title_uft8.html but did not directly help at least for Ubuntu 14.04 worker NOTE: Fallback suggestion to add --dblatex-opts="--param=latex.encoding=utf8" actually broke the PDF doc builds, not only for ChangeLog.
- tools/gitlog2changelog.py.in: trivialize author names into plain ASCII Older asciidoc/a2x/dblatex stack fails with non-ASCII characters in section titles (date and commit author become ChangeLog sections). Inspired by: * http://aerostitch.github.io/-misc/asciidoc/asciidoc-title_uft8.html * https://stackoverflow.com/questions/51710082/what-does-unicodedata-normalize-do-in-python * https://stackoverflow.com/questions/38697037/how-to-convert-python-2-unicode-function-into-correct-python-3-x-syntax
- Makefile.am: make sure that "make all" ends up making all types of docs
- common/nutconf.cpp, common/nutwriter.cpp, include/nutconf.hpp, tests/nutconf_ut.cpp, tools/nutconf/nutconf-cli.cpp: nutconf-related C+\+ sources: deprecate certain terminology and keywords [#840]
- common/nutconf.cpp, common/nutwriter.cpp, include/nutconf.hpp, tests/nutconf_parser_ut.cpp: nutconf-related C+\+ sources: fix typo in source var names: hotSync ⇒ hostSync
- common/nutconf.cpp, common/nutwriter.cpp, include/nutconf.hpp, tools/nutconf/nutconf-cli.cpp: nutconf-related C+\+ sources: add new UPSMON-style notification keywords to vocabulary

2.376 2024-03-14 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: rectify passing of CONFIG_OPTS [relies on nut/jenkins-dynamatrix#34]
- Jenkinsfile-dynamatrix: wrap unstashing of sources into their own pipeline sub-stage
- Jenkinsfile-dynamatrix: fix passing of (multi-token) DISTCHECK_FLAGS to autotools build/test variants
- Jenkinsfile-dynamatrix: add a section for direct use of autotools (once per platform) in all stable-branch builds In fallout of PR #2256 we had situations "caused" by tighter integration for NUT CI builds (and developer convenience via ./ci_build.sh) which were not seen on the NUT CI farm but could bite the common approach of `./autogen.sh && ./configure && make` on some (not all) platforms.

- common/nutstream.cpp: avoid pedantic warning about a const/static variable
- tools/nutconf/Makefile.am: apply convenience CCACHE exports like for other compiled sources [#2256]
- Makefile.am, clients/Makefile.am, common/Makefile.am, configure.ac, drivers/Makefile.am, include/Makefile.am, lib/Makefile.am, server/Makefile.am, tests/Makefile.am, tests/NIT/Makefile.am, tools/Makefile.am, tools/nut-scanner/Makefile.am: configure.ac, **.am: wherever we export CCACHE_** envvars for convenience - avoid doing so if they were not set at configure time [#2256]

2.377 2024-03-07 Jim Klimov <jimklimov+nut@gmail.com>

- .github/workflows/codeql.yml: revise APT preinstallation * clang or gcc/g+\+ depending on matrix.compiler * collapse other pkgs into one call * add libneon*-dev
- .github/workflows/codeql.yml: use C/C+\+ buids with "native" autogen\+configure (and a single run for each config combo)
- .github/workflows/codeql.yml: exile "python" analysis into one "included" matrix cell

2.378 2024-03-06 Jim Klimov <jimklimov+nut@gmail.com>

- .github/workflows/codeql.yml: add ./ci_build.sh options to constrain build/check scenario workload sprawl
- .github/workflows/codeql.yml: make a CodeQL matrix of compiler/NUT_SSL_VARIANTS/NUT_USB_VARIANTS instead of single fightwarn-all
- .github/workflows/codeql.yml: fix stringification of "ubuntu-latest"
- .github/workflows/codeql.yml: make "ubuntu-latest" formally a part of "matrix.os" for "if" clause
- .github/workflows/codeql.yml: install prerequisite packages and ensure a "BUILD_TYPE=fightwarn-all ./ci_build.sh" loop for C/C+\+ "Autobuild" implementation
- .github/workflows/codeql.yml: non-default C/C+\+ "Autobuild" implementation
- .github/workflows/codeql.yml, .github/codeql/codeql-config.yml: add "paths" for Python scripts
- Jenkinsfile-dynamatrix: fiddle with BUILD_WARNFATAL settings
- .github/workflows/codeql.yml: extend with python

2.379 2024-03-04 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: fix naming for cross-Windows builds ("Strict C" part is optional)
- Jenkinsfile-dynamatrix: add a TODO about "completely out-of-tree" builds
- autogen.sh: in the end of successful execution, lead interactive users to running the ./configure script

2.380 2024-03-03 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/systemd/nut-driver-enumerator-daemon-activator.path.in: clarify the unit description (it does not strictly restart the daemon, can reload if running too)
- docs/config-prereqs.txt: clarify that FreeBSD likely does not want to "pkg add openssl" in fact [#2275]
- README.adoc: update phrasing on DigitalOcean and NUT CI farm

2.381 2024-03-02 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/systemd/nut-server.service.in: summarize LimitNOFILE increase and ExecStartPost to monitor that it was applied, from FTY branch Originates from FTY commits: * 062d1868fa (Jim Klimov 2018-01-16 13:11:08 \+0100) * 0e28cc865c (Jim Klimov 2018-01-16 13:37:39 \+0100) * e9a67100a0 (Jim Klimov 2018-01-16 13:41:52 \+0100)
- tools/nut-scanner/scan_snmp.c: apply comments from FTY branch
- tools/nut-usbinfo.pl: quietly skip editor backup files, and those prepared by "git difftool" for comparisons
- scripts/systemd/.gitignore: do not GitIgnore nut-driver.target, it lives in SCM now
- drivers/snmp-ups.c: apply comments and formatting from FTY branch
- drivers/dstate.c: apply comments from FTY branch Originally from commits 9723e08096 and 6909e965a9 (Jan 2017)
- docs/man/nut-scanner.txt: reconcile asciidoc markup with FTY branch
- docs/config-prereqs.txt: reconcile markup with FTY branch
- docs/config-notes.txt: reconcile markup with FTY branch
- common/common.c: reconcile markup with FTY branch
- autogen.sh: reconcile markup with FTY branch
- UPGRADING.adoc: fix basic asciidoc list markup for releases v2.6.x and older
- NEWS.adoc, UPGRADING.adoc: clarify drop of oldmge-shut from NUT codebase
- NEWS.adoc: rephrase the text about Eaton-contributed installer from news prepared in FTY branch
- tools/nut-scanner/nut-scanner.c: bump © years, reconcile with master branch

2.382 2024-03-01 Yifeng Li <tomli@tomli.me>

- docs/nut.dict: nut.dict: add model "KRTL" to dictionary.
- docs/man/huawei-ups2000.txt: huawei-ups2000.txt: add UPS2000-G-3KRTL to the confirmed list A user has reported that UPS2000-G-3KRTL is confirmed working, thus this commit adds it to the list of known-working models. A remark about standard and long runtime variants has also been added.
- docs/Makefile.am: reminder about missing dictionary when aspell is unavailable When aspell is not unavailable, the cause can either be that aspell itself is not installed, or it has no English dictionary (aspell-en). I've wasted several minutes due to this oversight. Add this reminder in the error message to give clue to future developers.

2.383 2024-03-01 Jim Klimov <jimklimov+nut@gmail.com>

- m4/ax_c_pragmas.m4: comment where "-Wcast-function-type-strict" comes from
- tools/nut-scanner/nut-scanner.c: use same conservative base level of USB scan verbosity when scanning all media types (-C) [#2334]
- tools/nut-scanner/scan_nut_simulation.c: do not abort if CONFPATH is missing [#2235]
- NEWS.adoc, conf/ups.conf.sample, docs/man/nut_usb_addvars.txt, docs/man/ups.conf.txt, docs/nut.dict, drivers/arduino-hid.c, drivers/libshut.c, drivers/libusb0.c, drivers/libusb1.c, drivers/main.c, drivers/powervar-hid.c, tools/nut-scanner/scan_usb.c: Multiple USB-capable drivers: add ways to tune USB HID config, report, descriptor indexes and in/out endpoints [#2149]
- docs/Makefile.am: comment typo fix
- drivers/usb-common.c: free() USB matcher structures if called again [#2309] e.g. when reconnecting after link loss

2.384 2024-02-29 Jim Klimov <jimklimov@gmail.com>

- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_ADDRESS

2.385 2024-02-29 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt: clarify libneon.so symlink on OpenBSD
- common/common.c: get_libname_in_dir(): report first found "related" name (if any), if got no hits
- docs/config-prereqs.txt: document hacks to get pip for Python 2.7 . . . on systems that only support it partially Courtesy of https://stackoverflow.com/a/65125295/4715872
- conf/Makefile.am, data/Makefile.am, data/html/Makefile.am, docs/man/Makefile.am, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/Windows/Makefile.am, scripts/devd/Makefile.am, scripts/hotplug/Makefile.am, scripts/installer/Makefile.am, scripts/python/Makefile.am, scripts/systemd/Makefile.am, scripts/udev/Makefile.am, scripts/upsdrvsvcctl/Makefile.am, tests/NIT/Makefile.am: */Makefile.am: fix comment referring to "$(top_builddir)/install-sh"
- drivers/hidparser.h, drivers/libhid.h, drivers/nutdrv_qx.h, drivers/serial.h, drivers/snmp-ups.h, drivers/usb-common.h, drivers/usbhid-ups.h, include/common.h, include/nut_float.h, include/nut_stdint.h, include/proto.h: /.h: use NUT_NETVERSION as a header guard for #include "config.h"
- NEWS.adoc: fix for battery_voltage_reports_one_pack flag handling [#2324]

2.386 2024-02-28 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_libltdl.m4: fix detection on OpenBSD
- docs/config-prereqs.txt: clarify how to get pip on OpenBSD
- indent.sh, scripts/HP-UX/makedepot.sh, scripts/Windows/build-mingw-nut.sh, scripts/installer/make_package.sh, scripts/subdriver/ge snmp-subdriver.sh, scripts/subdriver/gen-usbhid-subdriver.sh: NUT shell scripts: use a better portable shebang for bash interpreter discovery NOTE: Some scripts require BASH syntax; maybe not all of them do (did not revise at this time)
- scripts/HP-UX/makedepot.sh: fix whitespace

2.387 2024-02-27 Jim Klimov <jimklimov@gmail.com>

- Makefile.am: ChangeLog: fix shell-scripting typo

2.388 2024-02-27 Jim Klimov <jimklimov+nut@gmail.com>

- include/state.h: include time headers (we use timespec/timeval here)
- configure.ac: report if deliberately avoiding hardlinks for LN_S_R implementation
- ci_build.sh: support CI_FAILFAST also to bail out from parallel/sequential build_to_only_catch_errors_target() logic - ensure parallel builds succeed "as is"
- configure.ac: revise detection of LN_S_R
- Makefile.am: avoid what some makes see as a loop for ChangeLog
- Makefile.am: make sure "make ChangeLog" does some work . . . even with OpenBSD make implementation
- docs/Makefile.am: produce proper asciidoc markup for ChangeLog.adoc if "FAILED to resolve input or output filename with this make implementation. . . "
- Makefile.am: fix out-of-tree build of ChangeLog file

2.389 2024-02-27 Denny Page <dennypage@me.com>

- drivers/nutdrv_qx.c: Correct access method used for flag battery_voltage_reports_one_pack

2.390 2024-02-26 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/Makefile.am: use libnutwincompat.la where appropriate
- tools/nut-scanner/Makefile.am: fix libnutscan_la_LIBADD vs. libnutscan_la_LDFLAGS
- common/Makefile.am: define libnutwincompat.la recipe
- common/Makefile.am: annotate automake if/else/endif with the appropriate macro name, and indent Should help with navigation/maintenance of the code base
- common/Makefile.am: pre-define CLEANFILES along with other vars of that sort
- tools/nut-scanner/Makefile.am: annotate automake if/else/endif with the appropriate macro name Should help with navigation/maintenance of the code base
- tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_xml_http.c: nut-scanner sources : fix leading indentation (SPACEs to TABs) to be consistent in the same file
- tools/nut-scanner/Makefile.am: rearrange and deduplicate lines for $(top_builddir)/include/nut_version.h target

2.391 2024-02-22 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: note revised recipes [#2318]
- Makefile.am, clients/Makefile.am, common/Makefile.am, conf/Makefile.am, data/Makefile.am, data/html/Makefile.am, docs/Makefile.am, drivers/Makefile.am, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/Windows/Makefile.am, scripts/devd/Makefile.am, scripts/hotplug/Makefile.am, scripts/installer/Makefile.am, scripts/python/Makefile.am, scripts/python/module/Makefile.am, scripts/systemd/Makefile.am, scripts/udev/Makefile.am, scripts/upsdrvsvcctl/Makefile.am, server/Makefile.am, tests/Makefile.am, tests/NIT/Makefile.am, tools/nut-scanner/Makefile.am, tools/nutconf/Makefile.am: */Makefile.am: be sure to use AM_MAKEFLAGS and invoke jobserver (\+) everywhere we call another $(MAKE)
- docs/Makefile.am: fix AM_FLAGS ⇒ AM_MAKEFLAGS
- scripts/python/module/Makefile.am: fix AM_FLAGS ⇒ AM_MAKEFLAGS
- conf/Makefile.am, data/Makefile.am, data/html/Makefile.am, docs/man/Makefile.am, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/Windows/Makefile.am, scripts/devd/Makefile.am, scripts/hotplug/Makefile.am, scripts/installer/Makefile.am, scripts/python/Makefile.am, scripts/systemd/Makefile.am, scripts/udev/Makefile.am, scripts/upsdrvsvcctl/Makefile.am, tests/NIT/Makefile.am: */Makefile.am: pass (top_)(src\|build)dir, MKDIR_P and AM_MAKEFLAGS of caller into docs/Makefile parsing
- Makefile.am: comment how to maintain list of subdirs for spellchecking TOTHINK: Do we want to just automate this discovery?
- Makefile.am: use jobserver for spellcheck* callouts; ensure .prep-src-docs are pre-generated
- Makefile.am, docs/nut.dict, scripts/installer/common/README_ipp-os-shutdown.adoc: Makefile.am: spellcheck "scripts/installer" too [#2288]
- README.adoc, docs/Makefile.am, . . . g_Host_Dark_56px.png ⇒ fosshost_org_Host_Dark_56px.png}, . . . st_Light_309px.png ⇒ fosshost_org_Host_Light_309px.png}, . . . Host_Light_38px.png ⇒ fosshost_org_Host_Light_38px.png}, docs/images/ci/jenkins-nut.css, docs/images/ci/jenkins-nut.txt, docs/nut.dict: docs: rename FossHost logo files to not include a dot in the name . . . it upsets some versions of `dblatex` (used in PDF generation) which treat everything after the **first** dot as a file extension.
- ci_build.sh: do not claim "Could not query git repo" if it was just clean

- docs/Makefile.am, docs/man/Makefile.am, .gitignore: fix back the "-prepped" suffix (with a dash)
- docs/Makefile.am, docs/man/Makefile.am: fix clean-up of *_prepped files
- scripts/installer/common/README_ipp-os-shutdown.adoc: scripts/installer/README_ipp-os-shutdown.adoc: fix asciidoc list style
- docs/nut.dict, scripts/python/module/README.adoc: scripts/python/module/README.adoc: fix spelling error
- docs/Makefile.am: when touching a *-spellchecked file, ensure its dir exists This file may be the only (or first) build product, so nobody else made that dir for us!

2.392 2024-02-21 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: abolish dependency from spellcheck on .prep-src-docs
- docs/Makefile.am: spellcheck recipes: pass an explicitly empty SPELLCHECK_SRC list to sub-makes (do not confuse .prep-src-docs dependency)
- docs/Makefile.am: spellcheck recipes: report "pwd" when complaining about bogus paths
- docs/Makefile.am: do not hard-code running dpkg (for diags) everywhere
- docs/Makefile.am, docs/man/Makefile.am: use full path relative to abs_top_builddir for .prep-src-docs Facilitate running the docs/Makefile from other dirs (to spell-check their docs)
- docs/nut.dict: learn about "wildcard" (singular)
- docs/Makefile.am, docs/man/Makefile.am: do not "ls" files for PREP_SRC, suffices to sort\|uniq the names in a diferent manner
- docs/Makefile.am, docs/man/Makefile.am: drop shell debug tracing from .prep-src-docs rules
- docs/Makefile.am, docs/man/Makefile.am: chop non-trivial "srcdir" from PREP_SRC pathnames, if present
- docs/Makefile.am, docs/man/Makefile.am: list PREP_SRC pathnames starting from builddir as "make" crafts them, not from srcdir
- docs/Makefile.am, docs/man/Makefile.am: try to accomodate different "make" implementations for .prep-src-docs file discovery

2.393 2024-02-20 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am, docs/man/Makefile.am: only the paths deal in absolutes!
- docs/Makefile.am: depend spellcheck on .prep-src-docs too, for completeness
- docs/Makefile.am, docs/man/Makefile.am: .prep-src-docs: for in-tree builds, cover all PREP_SRC names even if they do not yet exist
- docs/Makefile.am, docs/man/Makefile.am: revise calling the prep vs. document products again
- .gitignore, docs/Makefile.am, docs/man/Makefile.am: docs/man/Makefile.am, docs/Makefile.am, Makefile.am: use *.txt_prepped (with underscore) for suffix rules
- docs/man/Makefile.am, docs/Makefile.am: insist on having a "$(builddir)/.prep-src-docs" ... do not get distracted by one in-tree, if any, when doing out-of-tree builds
- docs/.gitignore: GitIgnore .prep-src-docs* touch-files
- .gitignore, Makefile.am, docs/Makefile.am, docs/man/Makefile.am: docs/man/Makefile.am, docs/Makefile.am, Makefile.am: avoid hacky rules to pre-call .prep-src-docs; use hacky touch-files instead

- Makefile.am: try to be sure to use the job server for docs-related sub-makes ... when using custom make targets to build specific docs or checks
- docs/man/Makefile.am: enable the opportunistic suffix rule for build products to depend on .prep-src-docs Hopefully avoids duplicate parallel runs of the helper where the make implementation would support it (courtesy above standard requirements).
- docs/Makefile.am, docs/man/Makefile.am: play with VPATH to help prefer PREP_SRC symlinks
- docs/Makefile.am, docs/man/Makefile.am: when creating PREP_SRC symlinks, report current workdir (help with relative src/build dirs)
- docs/Makefile.am, docs/man/Makefile.am: when cleaning PREP_SRC symlinks, be sure to only hit symlinks
- docs/man/Makefile.am: be sure to include LINKMAN_INCLUDE_GENERATED into PREP_SRC
- docs/man/Makefile.am: simplify clean-up
- docs/man/Makefile.am, docs/Makefile.am: rearrange dependencies on .prep-src-docs, avoid sub-makes where we can
- docs/man/Makefile.am, docs/Makefile.am: make sure that "all" target is first

2.394 2024-02-19 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nutscan-display.c: revise use of nutdev_num in nutscan_display_sanity_check_serial() Actually rewind it back to the number which the first entry for this device type had in the "continuous numbering" we track for this scan report.
- docs/man/Makefile.am: fix out-of-tree build check for linkman-driver{,tool}-names.txt recipes
- docs/Makefile.am, docs/man/Makefile.am: touch .prep-src-docs if called for in-tree builds too
- docs/Makefile.am, docs/man/Makefile.am: do not hard-depend common targets on .prep-src-docs
- tools/nut-scanner/nutscan-display.c: convert nutdev_num and last_nutdev_num to size_t
- tools/nut-scanner/nutscan-display.c: update comments about methods iterating WHOLE lists, not just parsing one "device"
- tools/nut-scanner/nutscan-display.c: fix nutdev_name rendition (it is NOT always a "nut-serialX"!)
- docs/Makefile.am, docs/man/Makefile.am: PREP_SRC: symlink from abs_srcdir to avoid the mess with relative paths and ".." offsets
- docs/Makefile.am, docs/man/Makefile.am: prefix sub-make calls with "\+" to invoke jobserver
- docs/Makefile.am, Makefile.am: explicitly "make .prep-src-docs" before calling (possibly parallel) sub-make for docs or docs/man
- docs/Makefile.am, docs/man/Makefile.am: report "Preparing to generate" separately from actually "Generating"
- docs/Makefile.am, docs/man/Makefile.am: augment with .prep-src-docs target for building out-of-tree
- docs/Makefile.am: do not make a "NOTE:..." line into a heading
- Makefile.am: ChangeLog: re-use one from tarball when not building from git
- Makefile.am: call tools/gitlog2changelog.py in SOURCE dir (where git repo is) and use CHANGELOG_FILE to store the result in BUILD dir
- Makefile.am: add a shortcut to "make ChangeLog.adoc"; fix formal markup if we "failed to generate the ChangeLog" to produce a sane adoc⇒pdf note anyway
- tools/gitlog2changelog.py.in: allow to use CHANGELOG_FILE="-" for redirect to stdout
- tools/gitlog2changelog.py.in: allow to customize CHANGELOG_FILE
- tools/nut-scanner/nutscan-display.c: update comments about last_nutdev_num

2.395 2024-02-17 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt: update for LUA pacakge naming on new Ubuntu/Debian distros
- drivers/eaton-ups-pwnm2-mib.c: bump version after edit in be29b to drop values not needed in this fork of the mapping

2.396 2024-02-16 Jim Klimov <jimklimov+nut@gmail.com>

- tests/nutipc_ut.cpp: use NutFile::tmp_dir() and NutFile::path_sep() for temporary PID file path construction [#2314]
- include/nutstream.hpp: expose NutFile::tmp_dir() and NutFile::path_sep() for good measure
- tests/nutipc_ut.cpp: NutIPCUnitTest::testSignalSend(): report PID file name and contents when in verbose mode
- tests/nutipc_ut.cpp: use unique PID filenames for each test run Closes: #2314

2.397 2024-02-15 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: introduce upsd_start_loop() Improve chances of passing the test suite even on congested CI farm agents
- tests/nutconf_ut.cpp: with fixed ABS_TOP_SRCDIR for WIN32, un-block config file parsing tests
- configure.ac: The more slashes - the better! One can never fully escape them!
- .github/workflows/codeql.yml: update to v3 Due to https://github.blog/changelog/2024-01-12-code-scanning-deprecation-of-codeql-action-v2/
- docs/config-prereqs.txt: fix Windows sub-section heading levels
- drivers/ever-hid.c: clarify a comment about USB VID 0x0483
- NEWS.adoc, data/driver.list.in, drivers/cps-hid.c, scripts/upower/95-upower-hid.hwdb: drivers/cps-hid.c et al: add support for Cyber Energy branded devices [#2312]
- common/nutstream.cpp: NutFile::open(): add a big comment about POSIX/WIN32 (absolute) path concerns Copied from tests, but would hopefully evaporate there eventually as that particular acute issue gets resolved.
- tests/nutconf_ut.cpp: add a big comment about POSIX/WIN32 (absolute) path concerns
- common/nutstream.cpp: checkExistsWritableDir(): add debuggging, fix use of access() check
- configure.ac: fix WIN32 resolution of build/src paths for tests

2.398 2024-02-14 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: fix up ABS_TOP_SRCDIR/ABS_TOP_BUILDDIR for builds of NUT directly on Windows agents
- common/nutstream.cpp: NutFile::open(): try to report the filename which was problematic
- appveyor.yml: be sure to have a NUT_STATEPATH spelled in a way that is writeable by WIN32 system methods (e.g. not mangled by mingw/msys)
- common/nutstream.cpp: try more locations for getTmpDirPath(), particularly on WIN32
- tests/nutstream_ut.cpp: improve chances on parallel CI testing: retry listen_sock.bind() a few times; freeze/thaw the writer PID
- common/nutstream.cpp: neuter fallback localtime_r(), gmtime_r() on mingw builds
- configure.ac: fix nut_with_debuginfo*="legacy" to consider flag list snapshots made just after autoconf might have mangled them

- configure.ac: to not change nut_with_debuginfo* from "no" to "legacy", leave it strictly as caller asked Recent changes are more careful about the "LEGACY FALLBACK" application. Let users ask for it explicitly though.
- common/nutstream.cpp: NutFile(anonymous_t): trace the attempted m_tmp_dir and filename (if known) in theexception (so far WIN32 code path)
- common/nutstream.cpp: NutFile(anonymous_t): use tmp file as binary in both POSIX and WIN32 code
- common/nutstream.cpp: NutFile(anonymous_t): pre-zero filename buffer
- common/nutstream.cpp: getTmpDirPath(): return "/tmp" not "/var/tmp" by default
- common/nutstream.cpp: getTmpDirPath(): comment about a C\+\+17 equivalent to maybe call later
- common/nutstream.cpp: :NutFile(anonymous_t), getTmpDirPath(): use ASCII char variants of Windows path related methods
- configure.ac: typo fix (--with-cppunit ⇒ --enable-cppunit) in messages
- NEWS.adoc, docs/nut.dict: NEWS.adoc: document "configure --with-debuginfo" possibility [#2310]
- m4/nut_report_feature.m4: adjust NUT_REPORT_COMPILERS to note about debug optimizations
- configure.ac: move CONFIG_C(XX)FLAGS definition back down to where we check AC_PROG_C* macros
- configure.ac: rename C(XX)FLAGS_ORIG to CONFIG_C(XX)FLAGS to avoid conflict with m4 scripts and to maintain similarly to CONFIG_FLAGS
- configure.ac: move stashing of CFLAGS_ORIG/CXXFLAGS_ORIG higher in the script; only do it if they are not yet set (and do set them if re-entering for an in-place build)
- configure.ac: add C(XX)FLAGS_ORIG tracing printouts to where we check nut_with_debuginfo
- configure.ac: hide C(XX)FLAGS_(BEFORE\|AFTER)_ACPROG tracing printouts; move "LEGACY DEFAULT FALLBACK" CFLAGS to the same block where we check AC_PROG_C*
- configure.ac: fix typo in shell test
- configure.ac: avoid needless quoting in AC_MSG_RESULT() printouts
- configure.ac: do not mangle C(XX)FLAGS added by autotools; just stash and consult original values when deciding --with-debuginfo behavior
- configure.ac: rearrange mangling of CFLAGS and CXXFLAGS by autotools defaults (optimizations/debug barged in) and our script
- m4/nut_report_feature.m4: adjust NUT_REPORT_COMPILERS to note about debug optimizations
- configure.ac: move CONFIG_C(XX)FLAGS definition back down to where we check AC_PROG_C* macros
- configure.ac: rename C(XX)FLAGS_ORIG to CONFIG_C(XX)FLAGS to avoid conflict with m4 scripts and to maintain similarly to CONFIG_FLAGS
- configure.ac: move stashing of CFLAGS_ORIG/CXXFLAGS_ORIG higher in the script; only do it if they are not yet set (and do set them if re-entering for an in-place build)
- configure.ac: add C(XX)FLAGS_ORIG tracing printouts to where we check nut_with_debuginfo
- configure.ac: hide C(XX)FLAGS_(BEFORE\|AFTER)_ACPROG tracing printouts; move "LEGACY DEFAULT FALLBACK" CFLAGS to the same block where we check AC_PROG_C*
- NEWS.adoc, docs/nut.dict: NEWS.adoc: document "configure --with-debuginfo" possibility [#2290]
- configure.ac: fix typo in shell test
- configure.ac: avoid needless quoting in AC_MSG_RESULT() printouts
- configure.ac: do not mangle C(XX)FLAGS added by autotools; just stash and consult original values when deciding --with-debuginfo behavior
- configure.ac: rearrange mangling of CFLAGS and CXXFLAGS by autotools defaults (optimizations/debug barged in) and our script

2.399 2024-02-13 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: avoid autoconf-added debug/optimization settings
- configure.ac: allow to --enable-cppunit=force for dev-testing
- common/nutstream.cpp, common/Makefile.am: augment getTmpDirPath() with NUT altpidpath() support
- common/nutstream.cpp: drop fflush() for sockets, not applicable type
- common/nutstream.cpp: refactor getTmpDirPath() with checkExistsWritableDir() helper
- configure.ac: avoid autoconf-added debug/optimization settings
- include/nutstream.hpp: make flush() methods in the NutStream classes part of the interface API
- common/nutstream.cpp, include/nutstream.hpp, tests/nutstream_ut.cpp: introduce flush() methods in the classes; use in NutFile stream tests between write() and read() parts [#2293] WIN32 builds failed due to lack of flush() and read an empty temporary file. Apparently the OS does not read() from a queued write() buffer/FS cache for a file.
- common/nutstream.cpp, include/nutstream.hpp: track NutSocket domain and type (e.g. AF_INET and SOCK_STREAM) Also sanity-check if they fit when used.
- common/nutstream.cpp: avoid use of hard-coded temporary path; fix WIN32 use-case [#2293] In WIN32 builds, ::tmpfile() tries to write to C:\ root dir and usually has no permissions to do so. Here we actively probe common envvars for temporary directories (or also use a WIN32 syscall for the effect) to try and get a realistic TMPDIR. TODO: Consider NUT statepath/(alt)pidpath... maybe not available in tests though. Probe if the chosen dir actually exists?
- tests/nutstream_ut.cpp: use global "verbose" setting to trace readTestData()/writeTestData() helpers
- tests/cpputest.cpp, tests/nutstream_ut.cpp: let individual tests see the global "verbose" setting from CLI
- tests/nutstream_ut.cpp: Revert "tests/nutstream_ut.cpp: let the destructor alone close() the bound socket" This reverts commit f93c31fa9a5804d8aadbefb0cfb98e0cc03b6e7d.
- configure.ac: allow to --enable-cppunit=force for dev-testing
- common/nutstream.cpp: fix NutSocket calls to read/write/close/connect methods to use our WIN32/POSIX friendly wrappers
- tests/nutstream_ut.cpp: let the destructor alone close() the bound socket
- tests/nutstream_ut.cpp: getFreePort(): use sock.closex() with exceptions on errors right away

2.400 2024-02-12 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac, tests/Makefile.am: define CPPUNIT_NUT_CXXFLAGS properly
- configure.ac: if we apply nut_with_debuginfo_CXX, avoid separate settings for CPPUNIT_NUT_CXXFLAGS debugging
- configure.ac: separate internally nut_with_debuginfo into nut_with_debuginfo_C vs. nut_with_debuginfo_CXX
- configure.ac, ci_build.sh: introduce --with-debuginfo (BUILD_DEBUGINFO) setting
- ci_build.sh: empty BUILD_TYPE is not an "error", fix the warning message
- ci_build.sh: add "TAKING SHORTCUT" to re-generate if current configure script syntax is broken
- appveyor.yml: try to print "make check" post-mortem details with a subshell It is surprisingly difficult to do in-line scripts for Windows via YAML
- configure.ac, tests/Makefile.am: define CPPUNIT_NUT_CXXFLAGS properly
- configure.ac: if we apply nut_with_debuginfo_CXX, avoid separate settings for CPPUNIT_NUT_CXXFLAGS debugging

- appveyor.yml: Revert "appveyor.yml: use double-quotes to wrap bash calls (windows shell is quirky with single quotes)" This reverts commit abf2a9e24e2d122f10c6b74121439f88a43f1d57.
- tests/nutstream_ut.cpp: on IWN32, use WSAStartup() before socket methods
- include/nutipc.hpp, tests/nutipc_ut.cpp: accomodate the likes of OSX where sigemptyset() is a macro
- appveyor.yml: use double-quotes to wrap bash calls (windows shell is quirky with single quotes)
- ci_build.sh: empty BUILD_TYPE is not an "error", fix the warning message
- tests/nutipc_ut.cpp: testSignalRecvQuick(): avoid switch/case over an enum Avoids warning about "enumeration values not explicitly handled in switch: ..."
- appveyor.yml: print trace files if "make check" failed
- tests/cpputest.cpp: avoid segfault with debug-trace progress printer and certain compiler optimizations
- tests/cpputest.cpp: be sure to avoid debug-trace segfaults if "test" is NULL
- tests/nutstream_ut.cpp: avoid forked helper continuing with another copy of tests
- configure.ac: separate internally nut_with_debuginfo into nut_with_debuginfo_C vs. nut_with_debuginfo_CXX
- ci_build.sh: add "TAKING SHORTCUT" to re-generate if current configure script syntax is broken
- configure.ac, ci_build.sh: introduce --with-debuginfo (BUILD_DEBUGINFO) setting
- tests/nutipc_ut.cpp: be sure to caught_signals.clear() early in testSignalRecv*()
- tests/nutipc_ut.cpp, tests/nutconf_ut.cpp: register each test separately to trace them better
- tests/cpputest.cpp: be sure to flush the printout of starting test name before churning CPU on it
- tests/nutstream_ut.cpp: try to actively probe an available port number for the test
- tests/nutipc_ut.cpp: separate tests about received signal count (rapid-fire) and order (staggered)

2.401 2024-02-10 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: warn early if building with mingw and strict/ansi C/C+\+ mode
- drivers/mge-hid.c: fix includes and defines for WIN32 build with strict C89
- common/common.c: avoid "FOR loop initial declarations" (are only allowed in C99 or C11 mode) for a WIN32 codepath
- server/netssl.c: include common.h⇒config.h first
- drivers/riello_ser.c: include common.h⇒config.h first
- drivers/riello.c: include common.h⇒config.h first
- server/sockdebug.c: include common.h⇒config.h first
- drivers/snmp-ups.h: rearrange commented-away code
- drivers/riello_ser.c: rearrange commented-away code
- clients/upsmon.c, drivers/dstate.c, drivers/eaton-pdu-marlin-mib.c, drivers/main.c, drivers/nutdrv_qx.c, drivers/snmp-ups.c, drivers/tripplite_usb.c, drivers/upsdrvctl.c, drivers/upsdrvquery.c, scripts/Windows/DriverInstaller/wdi-simple.c, server/conf.c, server/pipedebug.c, server/sstate.c: Fix comment style from double-slash to C89 compatible
- common/strptime.c: fix indentations and comment style
- drivers/nutdrv_qx_ablerex.c: rearrange commented-away code

- common/strptime.c: use NUT config.h
- drivers/pijuice.c: indent nested #if/#endif macros for readability
- clients/cgilib.c: include common.h⇒config.h first; be sure to have stdio.h for snprintf()
- docs/developers.txt: extend notes about NUT CI farm hosting (with DigitalOcean) [#2192]
- docs/developers.txt, docs/nut.dict: docs/developers.txt: extend notes about baseline supported C/C+\+ standards
- UPGRADING.adoc, NEWS.adoc: mention fixed C/C+\+ standard support in builds
- tests/generic_gpio_utest.c: "int main()" requires a return value
- tests/generic_gpio_utest.c, tests/generic_gpio_liblocal.c: avoid "FOR loop initial declarations" (are only allowed in C99 or C11 mode) A little fallout for recent fix of actually doing C89 bulids via ci_build.sh
- configure.ac, m4/nut_compiler_family.m4: extend sensitivity for "-std=. . . " to also cover "-ansi" option
- ci_build.sh: update comment for "ignored" BUILD_WARNOPT and BUILD_WARNFATAL settings when BUILD_TYPE is empty
- Jenkinsfile-dynamatrix: constrain cross-mingw builds to GNU C standard by default (Strict C seems broken on OS side)
- drivers/raritan-px2-mib.c: fix NULL from string to pointer (raritanpx2_outlet_status_info[] sentinel) Closes: #2304
- drivers/raritan-px2-mib.c: add a comment about daisy-chain features anticipated by this vendor MIB
- drivers/raritan-px2-mib.c: add more values to raritanpx2_outlet_status_info[] Found per https://www.circitor.fr/Mibs/Html/P/-PDU2-MIB.php#SensorStateEnumeration
- drivers/delta_ups-mib.c: fix typo for "split-phase" UPS type mapping Closes: #2302
- Jenkinsfile-dynamatrix: constrain cross-mingw builds to GNU C standard by default (Strict C seems broken on OS side)

2.402 2024-02-09 Jim Klimov <jimklimov@gmail.com>

- drivers/tripplite_usb.c: update comments and logging for unit id matcher

2.403 2024-02-09 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/sms_ser.c, clients/upssched.c: avoid "FOR loop initial declarations" (are only allowed in C99 or C11 mode) A little fallout for recent fix of actually doing C89 bulids via ci_build.sh
- m4/nut_compiler_family.m4: fix detection of a compiler standard already requested by caller
- tests/NIT/nit.sh: support NIT_CASE=isBusy_NUT_PORT for troubleshooting
- tests/NIT/nit.sh: isBusy_NUT_PORT(): check known sockets also with "ss" tool
- tests/NIT/nit.sh: isBusy_NUT_PORT(): do not test for non-emptiness of /proc/net/tcp* (they have contents AND are reported empty on some distros)
- tests/NIT/nit.sh: isBusy_NUT_PORT(): add log_debug() tracing about detected or not detected information
- tests/NIT/nit.sh: make sure log_debug() never errors out
- tests/NIT/nit.sh: support NIT_CASE=isBusy_NUT_PORT for troubleshooting
- tests/NIT/nit.sh: isBusy_NUT_PORT(): check known sockets also with "ss" tool
- tests/NIT/nit.sh: isBusy_NUT_PORT(): do not test for non-emptiness of /proc/net/tcp* (they have contents AND are reported empty on some distros)

- tests/NIT/nit.sh: isBusy_NUT_PORT(): add log_debug() tracing about detected or not detected information
- tests/NIT/nit.sh: make sure log_debug() never errors out
- drivers/sms_ser.c, clients/upssched.c: avoid "FOR loop initial declarations" (are only allowed in C99 or C11 mode) A little fallout for recent fix of actually doing C89 bulids via ci_build.sh
- ci_build.sh: refine CANBUILD_NUTCONF handling vs. CXXFLAGS="-std=..."
- tests/nutstream_ut.cpp: try to fix the use of really random port numbers (again)
- tests/nutipc_ut.cpp: try to fix the occasional fault of testSignalRecv() - also with USER1 after USER2 (and a sleep)
- tests/nutipc_ut.cpp: try to fix the occasional fault of testSignalRecv()
- m4/nut_compiler_family.m4: fix detection of a compiler standard already requested by caller
- drivers/eaton-pdu-marlin-mib.c, drivers/hpe-pdu-mib.c: drivers/*-mib.c: fix "open" to "opened" (again) for dry contact states Re-apply commit d3b6ea4d89 to modernized codebase of PR #2285 and newly cover drivers/hpe-pdu-mib.c as well
- drivers/baytech-mib.c, drivers/eaton-ups-pwnm2-mib.c, drivers/huawei-mib.c: drivers/*-mib.c: clean up typos for PR #2285
- drivers/tripplite_usb.c: typo fix in formatting string
- common/nutstream.cpp, include/nutstream.hpp: NutFile class: refactor constructor with access_t mode to not use tmpnam() [#2295] The method for NutFile::tmpName() was private and only used in this constructor, and relied on the unsafe tmpnam() method to openx() the resulting file with a given mode. With this change, the file is created via tmpfile() and freopen()'ed with the desired mode. Downside: name inherently unknown. Upside: auto-deletion of the temporary file. Closes: #2295
- common/nutstream.cpp, include/nutstream.hpp: NutFile class: refactor strAccessMode() helper into a separate method [#2295]
- common/nutstream.cpp: NutFile class: take more care about empty m_name or null m_impl values (sanity-checks etc.)
- common/nutstream.cpp, include/nutstream.hpp: wrap some long exception-printing lines
- tools/nutconf/nutconf-cli.cpp: rearrange getMode() default handling Avoid claims that "control reaches end of non-void function [-Wreturn-type]"
- tools/nutconf/Makefile.am, tools/nutconf/{nutconf.cpp ⇒ nutconf-cli.cpp}: tools/nutconf/nutconf.cpp: rename to nutconf-cli.cpp to reduce ambiguity
- tests/Makefile.am, tests/{nutconf.cpp ⇒ nutconf_parser_ut.cpp}: tests/nutconf.cpp: rename to nutconf_parser_ut.cpp to reduce ambiguity
- drivers/tripplite_usb.c: harden the int types used to detect and report unit id
- NEWS.adoc: update for tripplite_usb unit id matcher [#2297]

2.404 2024-01-31 sapireli <114778791+sapireli@users.noreply.github.com>

- drivers/tripplite_usb.c: Fix for undefined upsid in config small fix restoring matching when upsid is undefined in config closes #2282

2.405 2024-01-30 Jim Klimov <jimklimov+nut@gmail.com>

- tests/cpputest.cpp: initialize random number generator with srand() Ensure better that the ports used by nutstream_ut.cpp can end up random.
- common/nutwriter.cpp: avoid UPSD_DIRECTIVEX and UPSMON_DIRECTIVEX macros claiming "unreachable code" warnings
- tests/nutstream_ut.cpp: make use of HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_DEPRECATED_DECLARATIONS to fix warnings on CentOS7 (older clang, older cppunit)

- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_DEPRECATED_DECLARATIONS
- tools/nutconf/nutconf.cpp: getMode(): wrap potentially unreachable de-enumeration code into pragmas
- drivers/snmp-ups-helpers.c: convert to info_lkp_fun_vp2s() and info_lkp_sentinel
- tests/nutstream_ut.cpp: use CPPUNIT_ASSERT_MESSAGE with prepared C+\+ string, not inlined
- tests/nutstream_ut.cpp: troubleshoot listen_sock.bind(m_listen_address) hiccups
- tests/nutstream_ut.cpp: nutconf related tests: CPPUNIT_MACROS raise warnings (for older compilers/distros), try some workarounds
- common/nutconf.cpp, tools/nutconf/nutconf.cpp: nutconf related code: where we use pragmas for "-Wcovered-switch-default", do also use "-Wunreachable-code" (for older compilers)
- tests/nutstream_ut.cpp: troubleshoot writer_exit!=0
- tests/nutipc_ut.cpp: not all shells have "test" with two equality chars
- tests/nutstream_ut.cpp: cast the random() port number to uint16_t

2.406 2024-01-29 Jim Klimov <jimklimov+nut@gmail.com>

- include/nutipc.hpp, include/nutstream.hpp: Revert "nutconf related headers: tell clang to ignore "unknown" \retval in Doxygen comments" This reverts commit 9ec19231ced75d942955a31108613cecdb4a75fe. Some clang versions warn about unknown pragma. Not a quick win...
- NEWS.adoc: document addition of nutconf [#2290]
- NEWS.adoc: update info about installer
- drivers/snmp-ups.h: do not lose function pointers in non-DMF builds with info_lkp_fun_s2l() and info_lkp_nuf_vp2s()
- drivers/eaton-ats16-nm2-mib.c: rename eaton_ats16_ambient_drycontacts_info[] ⇒ eaton_ats16_nm2_ambient_drycontacts_info[] to match other table naming patterns
- drivers/eaton-ats16-nm2-mib.c: wrap new EMP002 snmp_info_t entries into snmp_info_default() macros
- NEWS.adoc, docs/nut.dict: NEWS.adoc: document recently addressed issues and merged PRs that would be part of NUT v2.8.2 eventually
- configure.ac: tell clang to ignore "unknown" \retval in Doxygen comments
- include/nutipc.hpp, include/nutstream.hpp: nutconf related headers: tell clang to ignore "unknown" \retval in Doxygen comments
- common/nutipc.cpp: disarm NUT fallbacks for time methods (as may be defined in our common.h) for C+\+ (notably on mingw)
- tests/nutstream_ut.cpp: ensure random() symbol for WIN32 builds
- common/nutstream.cpp: comment not-use of wincompat.h wq
- tools/nutconf/nutconf.cpp: avoid bogus warnings about uninitialized map
- common/Makefile.am: add NETLIBS to libnutconf (esp. needed on WIN32 builds)
- tests/nutstream_ut.cpp: Randomize bind(port) to try avoiding collisions in parallel testing

2.407 2024-01-28 desertwitch <24509509+desertwitch@users.noreply.github.com>

- clients/upsmon.c: debug information to rectify unwanted OFF criticalities

2.408 2024-01-28 Jim Klimov <jimklimov+nut@gmail.com>

- common/nutipc.cpp, common/nutstream.cpp, include/nutipc.hpp, tests/nutconf_ut.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp: nutconf related codebase: neuter code parts that need WIN32 implementations (process IPC, etc.)
- common/nutstream.cpp: radically avoid the hassle with sa_family type
- include/nutstream.hpp, common/nutstream.cpp: currently neuter AF_UNIX support code under WIN32
- common/nutstream.cpp: add a comment about NutFile::m_tmp_dir (should not be hard-coded in the long run)
- common/nutconf.cpp: rename "system" and "word" vars to avoid clashes with some build environments
- common/nutstream.cpp: adapt socket operations to Win/Lin cross builds, similar to nutclient.cpp solution
- common/nutconf.cpp, common/nutipc.cpp, common/nutstream.cpp, common/nutwriter.cpp, include/nutipc.hpp, include/nutstream.hpp, tests/nutconf.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp: nutconf related sources: revise include file lists and order (config.h, WIN32...)
- drivers/snmp-ups.h: reshuffle in main codebase for unrecognized DMF macros
- scripts/installer/Makefile.am, .../{README_ipp-os-shutdown.txt ⇒ README_ipp-os-shutdown.adoc}: scripts/installer/-Makefile.am: spellcheck common/README_ipp-os-shutdown.adoc
- scripts/installer/Makefile.am: EXTRA_DIST all the files
- configure.ac, scripts/Makefile.am, scripts/installer/Makefile.am, scripts/installer/{README.txt ⇒ README.adoc}: scripts/installer/Makefile.am: added to distribute and spell-check README.adoc
- scripts/installer/README.txt: comments on nutconf and authors
- m4/nut_check_libgd.m4: fall back to checking with explicit -lpng in the LDFLAGS loop
- docs/nut.dict: Update nut.dict

2.409 2024-01-27 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/snmp-ups.h: adapt to non-DMF SNMP NUT driver builds
- scripts/subdriver/gen-snmp-subdriver.sh: bump version and copyright
- drivers/apc-ats-mib.c, drivers/apc-epdu-mib.c, drivers/apc-pdu-mib.c, drivers/bestpower-mib.c, drivers/delta_ups-mib.c, drivers/eaton-pdu-nlogic-mib.c, drivers/eaton-pdu-pulizzi-mib.c, drivers/emerson-avocent-pdu-mib.c, drivers/hpe-pdu3-cis-mib.c, drivers/huawei-mib.c, drivers/raritan-pdu-mib.c, drivers/raritan-px2-mib.c, drivers/xppc-mib.c: drivers/*-mib.c: convert versions to at least double digits
- Makefile.am, clients/Makefile.am, common/Makefile.am, data/html/Makefile.am: */Makefile.am: standardize to have the export commands on top, just after title comment line
- scripts/python/module/Makefile.am: avoid "make clean" invalidating the NUT build area Otherwise we can not find the test script (generated from .in by configure normally)
- common/nutconf.cpp: NutConfigParser::parseConfig(): reshuffle base vs. overridden call for parser to work again Fine piece of C+\+ magic and inheritance. Wrong call got called.
- NEWS.adoc: untie OFF from linestate in upsmon FSD [#2279]

2.410 2024-01-26 desertwitch <24509509+desertwitch@users.noreply.github.com>

- clients/upsmon.c: fix offstate not being a requirement for a critical UPS on OFF

2.411 2024-01-25 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: use -Wno-exit-time-destructors and -Wno-global-constructors with clang+\+ to not worry about "(static) const something" variables
- tests/nutconf.cpp, tests/nutipc_ut.cpp: nutconf related tests: avoid "old-style cast" usage
- tests/nutconf_ut.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp: nutconf related tests: avoid "no out-of-line virtual method definitions" (weak-vtables)
- tests/nutipc_ut.cpp: declare the override of nut::Signal::Handler methods
- tests/nutconf.cpp, tests/nutconf_ut.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp: nutconf related tests: declare the override of CPPUNIT methods
- tests/nutstream_ut.cpp: fix cast of size_t vs. double for "pivot"
- tools/nutconf/nutconf.cpp: avoid shadowing a class property with method arg name
- tools/nutconf/nutconf.cpp: mark almost all methods in the tool as static
- tools/nutconf/nutconf.cpp: align "us_timeout" to be "useconds_t" not "long" (per libnutscan API evolution)
- common/nutconf.cpp: cast around std::getline() for parenthesized syntax Why didn't the original author just receive the word into target string?.. e.g.: std::getline(system, monitor.upsname, @); std::getline(system, monitor.hostname);
- common/nutconf.cpp, include/nutconf.hpp: include/nutconf.{c,h}pp: align port type to uint16_t (not plain or short int as mismatched in older code)
- common/nutwriter.cpp: include/nutwriter.hpp: comment away a currently unused static method
- common/nutstream.cpp: include/nutstream.hpp: align size_t vs ssize_t maths
- common/nutipc.cpp: include/nutipc.hpp: align size_t vs ssize_t maths
- common/nutipc.cpp: include/nutipc.hpp: align array deleter with allocator
- include/nutipc.hpp: align templated class destructor name with class name
- include/nutstream.hpp: decorate unimplemented methods which only throw with noreturn (for C\+\+11 and newer)
- common/nutwriter.cpp, include/nutconf.hpp, tools/nutconf/nutconf.cpp: include/nutconf.hpp: align UpsmonConfiguration::notifyFlag type with clients/upsmon.h (notifylist→flags) Note that here we have "unsigned int" and there a plain "int" at the moment; but even with short signed ints we currently do not have too many values :) This fix also drops a warning about shortening the cast when assigning from a temporary "unsigned int flags" in UpsmonConfigParser::onParseDirective()
- common/nutconf.cpp: include/nutconf.cpp: NutConfigParser::parseConfig(): explicitly handle all enum values in switch/case (and allow "default" to be safe)
- common/nutconf.cpp: include/nutconf.cpp: NutConfigParser::parseConfig(): be explicit about the infinite loop Assignment of tok=parseToken() does not return a boolean (nor even a nullptr) so should not be a while(...) condition by itself.
- common/nutconf.cpp: include/nutconf.cpp: avoid annotating a switch/case fallthrough
- common/nutconf.cpp: include/nutconf.hpp: err on the safe side by having a default handler in a currently exhaustive switch(enum)
- common/nutconf.cpp, common/nutipc.cpp, common/nutstream.cpp, include/nutipc.hpp: nutconf related sources: avoid "old-style cast" usage
- include/nutconf.hpp: avoid naming clash for Token "type" and "str" properties vs. method args
- common/nutconf.cpp, common/nutipc.cpp, common/nutstream.cpp, common/nutwriter.cpp, include/nutconf.hpp, include/nutipc.hpp, include/nutstream.hpp, include/nutwriter.hpp: nutconf related sources: avoid "no out-of-line virtual method definitions" (weak-vtables)
- common/nutconf.cpp, common/nutipc.cpp, common/nutstream.cpp, include/nutconf.hpp, include/nutipc.hpp, include/nutstream.hpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp, tools/nutconf/nutconf.cpp: nutconf related changes: avoid NULL ("zero as null pointer constant"), use "::" prefix for C methods
- include/nutipc.hpp: avoid naming clash for QUIT signal and command

2.412 2024-01-25 Jim Klimov <jim@jimklimov.com>

- tools/nut-usbinfo.pl: avoid dying on unknown file name patterns (e.g. *-mib.c.bak), just warn and skip them

2.413 2024-01-24 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/eaton-ats16-nm2-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/eaton-ups-pwnm2-mib.c, drivers/mge-mib.c, drivers/raritan-pdu-mib.c: drivers/*-mib.c: convert to use info_lkp_sentinel, info_lkp_default et al wrapping
- ci_build.sh: update that nutconf is now fair game for builds and tests
- configure.ac: default --with-nutconf=auto (based on have_cxx11) and add it to --with-all
- drivers/apc-ats-mib.c, drivers/apc-epdu-mib.c, drivers/apc-mib.c, drivers/apc-pdu-mib.c, drivers/baytech-mib.c, drivers/bestpower-mib.c, drivers/compaq-mib.c, drivers/cyberpower-mib.c, drivers/delta_ups-mib.c, drivers/eaton-ats16-nm2-mib.c, drivers/eaton-ats16-nmc-mib.c, drivers/eaton-ats30-mib.c, drivers/eaton-pdu-genesis2-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/eaton-pdu-nlogic-mib.c, drivers/eaton-pdu-pulizzi-mib.c, drivers/eaton-pdu-revelation-mib.c, drivers/eaton-ups-pwnm2-mib.c, drivers/eaton-ups-pxg-mib.c, drivers/emerson-avocent-pdu-mib.c, drivers/hpe-pdu-mib.c, drivers/hpe-pdu3-cis-mib.c, drivers/huawei-mib.c, drivers/ietf-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/raritan-pdu-mib.c, drivers/raritan-px2-mib.c, drivers/xppc-mib.c: drivers/*-mib.c: convert to use snmp_info_sentinel wrapping
- drivers/apc-ats-mib.c, drivers/apc-epdu-mib.c, drivers/apc-mib.c, drivers/apc-pdu-mib.c, drivers/baytech-mib.c, drivers/bestpower-mib.c, drivers/compaq-mib.c, drivers/cyberpower-mib.c, drivers/delta_ups-mib.c, drivers/eaton-ats16-nm2-mib.c, drivers/eaton-ats16-nmc-mib.c, drivers/eaton-ats30-mib.c, drivers/eaton-pdu-genesis2-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/eaton-pdu-nlogic-mib.c, drivers/eaton-pdu-pulizzi-mib.c, drivers/eaton-pdu-revelation-mib.c, drivers/eaton-ups-pwnm2-mib.c, drivers/eaton-ups-pxg-mib.c, drivers/emerson-avocent-pdu-mib.c, drivers/hpe-pdu-mib.c, drivers/hpe-pdu3-cis-mib.c, drivers/huawei-mib.c, drivers/ietf-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/raritan-pdu-mib.c, drivers/raritan-px2-mib.c, drivers/xppc-mib.c: drivers/*-mib.c: convert to use snmp_info_default() wrapping
- drivers/apc-ats-mib.c, drivers/apc-epdu-mib.c, drivers/apc-mib.c, drivers/apc-pdu-mib.c, drivers/baytech-mib.c, drivers/bestpower-mib.c, drivers/compaq-mib.c, drivers/cyberpower-mib.c, drivers/delta_ups-mib.c, drivers/eaton-ats16-nm2-mib.c, drivers/eaton-ats16-nmc-mib.c, drivers/eaton-ats30-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/eaton-pdu-nlogic-mib.c, drivers/eaton-pdu-pulizzi-mib.c, drivers/eaton-pdu-revelation-mib.c, drivers/eaton-ups-pwnm2-mib.c, drivers/eaton-ups-pxg-mib.c, drivers/emerson-avocent-pdu-mib.c, drivers/hpe-pdu-mib.c, drivers/hpe-pdu3-cis-mib.c, drivers/huawei-mib.c, drivers/ietf-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/raritan-pdu-mib.c, drivers/raritan-px2-mib.c, drivers/xppc-mib.c: drivers/*-mib.c: convert to use info_lkp_sentinel, info_lkp_default et al wrapping
- drivers/snmp-ups.h: introduce also info_lkp_nuf_vp2s(), info_lkp_nuf_s2l() and info_lkp_fun_s2l() wrappers
- scripts/subdriver/gen-snmp-subdriver.sh, drivers/snmp-ups.h: introduce short-hand snmp_info_sentinel and info_lkp_sentinel
- scripts/subdriver/gen-snmp-subdriver.sh: convert C table generator to propose info_lkp_default(...) instead of fixed C structure items
- scripts/subdriver/gen-snmp-subdriver.sh: convert C table generator to propose snmp_info_default(...) instead of fixed C structure items
- drivers/snmp-ups.h: introduce wrappers to handle optionally-defined NULL fields for snmp_info_t and info_lkp_t [DMF]
- scripts/subdriver/gen-snmp-subdriver.sh: start subdriver versions as 0.01 for double digits
- tests/nutconf_ut.cpp: update expectations for current ups.conf.sample default contents
- configure.ac, tests/nutconf_ut.cpp: rearrange to use ABS_TOP_SRCDIR and ABS_TOP_BUILDDIR in the test program
- tools/nutconf/nutconf.cpp: adapt nutscan_scan_usb() to libnutscan API evolution
- common/nutstream.cpp: address a run-time warning about tempnam()
- include/nutipc.hpp: Process::Child<M>::wait(): fix error-case check
- common/nutstream.cpp: formatIPv{4,6}addr(): code typo fix (bit maths, not boolean expressions!)

- common/nutconf.cpp, include/nutconf.hpp, include/nutipc.hpp, include/nutstream.hpp, include/nutwriter.hpp: nutconf related sources: fix implicit copy/move operator warnings - use explicit defaults, destructors, and clarify overrides
- common/nutconf.cpp: NutConfigParser::parseConfig(): fix switch/case that did not check all enum values
- common/nutconf.cpp, include/nutconf.hpp, include/nutipc.hpp, include/nutstream.hpp, tools/nutconf/nutconf.cpp: nutconf related sources: use NUT_UNUSED_VARIABLE() to decorate the code where needed
- common/nutconf.cpp, common/nutwriter.cpp, include/Makefile.am, include/{nutconf.h ⇒ nutconf.hpp}, include/nutwriter.hpp, tests/nutconf.cpp, tests/nutconf_ut.cpp, tools/nutconf/nutconf.cpp: Rename include/nutconf.h ⇒ .hpp as a C+\+ specific source file
- common/nutconf.cpp, common/nutstream.cpp, common/nutwriter.cpp, include/nutconf.h, include/nutipc.hpp, include/nutstream.hpp, include/nutwriter.hpp, tests/nutconf.cpp, tests/nutconf_ut.cpp, tools/nutconf/nutconf.cpp: nutconf related sources: fix typos and wording in comments
- common/nutipc.cpp, common/nutstream.cpp, include/nutconf.h, include/nutipc.hpp, include/nutstream.hpp, tools/nutconf/nutconf.cpp: nutconf related sources: fix deprecated throw() declarations to not be used since C++11 They are invalid in C++17 as the code did fence against; however C\+\+11 already shows them as deprecated, and with "fatal warnings" this bites!
- common/nutconf.cpp: NutConfigParser::parseConfig(): pre-initialize "sep" to avoid surporises
- common/nutconf.cpp, common/nutipc.cpp, common/nutstream.cpp, common/nutwriter.cpp, include/nutconf.h, include/nutipc.hpp, include/nutstream.hpp, include/nutwriter.hpp, tests/nutconf.cpp, tests/nutconf_ut.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp, tools/nutconf/nutconf.cpp: nutconf related sources: fix whitespace style
- tools/nutconf/nutconf.cpp: fix file description
- tools/nutconf/Makefile.am: update Makefile markup and comments

2.414 2024-01-23 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/eaton-pdu-marlin-mib.c: marlin_device_count_fun(): decorate a NUT_UNUSED_VARIABLE()

2.415 2024-01-21 Jim Klimov <jimklimov+nut@gmail.com>

- server/netssl.c: fix decl-after-statement NUT_UNUSED_VARIABLE() implementation counts as a code statement, so should be after true declarations.

2.416 2024-01-21 Duncan Webb <duncan@linuxowl.com>

- server/netssl.c: Fix possible buffer overrun calls to PR_GetErrorText Removed call to NSS_NoDB_Init as certfile will be defined. Copy paste from upscli change to ssl_init.

2.417 2024-01-20 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c: fix comment wording [#840, #2240]
- scripts/upower/95-upower-hid.hwdb: update for recent changes in drivers/belkin-hid.c [#2271]

2.418 2024-01-19 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: upsconf_getSection_content(): optimize string emptiness checks
- NEWS.adoc, docs/nut.dict: update for nut-driver-enumerator [#682]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: fix systemd_findSavedDeviceName() to use common SYSTEMD_CONFPATH variable
- drivers/belkin-hid.c: add Liebert PowerSure PST UPS productid [#2271]
- docs/ci-farm-lxc-setup.txt: errata for virt-top too new to work with LXC

2.419 2024-01-19 Charles Lepple <clepple+nut@gmail.com>

- drivers/belkin-hid.c: fix Liebert GXT4 UPS productid Follow-up to 3e1b00ec3ff105a05e67ae8602996cf7436f816b which intended to add the ID after NUT v2.7.4 release, but fell prey to copy-paste typo (got 0x0004 instead of intended 0x0000): commit 3e1b00ec3ff105a05e67ae8602996cf7436f816b Date: Sat Jun 3 12:24:15 2017 -0400 usbhid-ups: add Liebert GXT4 USB VID:PID [10AF:0000] Source: http://lists.alioth.debian.org/pipermail/nut-upsuser/2017-June/010682.html Voltage and ConfigVoltage appear to be scaled improperly per the debug output.

2.420 2024-01-18 Vytautas Survila <vytautas.survila@gmail.com>

- drivers/nutdrv_qx.c: use correct read_size for *too much data read* message

2.421 2024-01-18 Jim Klimov <jimklimov+nut@gmail.com>

- docs/security.txt: typography: fix quoting style
- docs/security.txt, docs/man/upsd.conf.txt, docs/man/upsmon.conf.txt: stress that multi-word "Certificate Name" values should be double-quoted; fix examples [#2265]
- docs/man/upsmon.conf.txt: fix multi-paragraph attachments in the very nested MONITOR section Blanks and pluses are the trick: https://stackoverflow.com/a/52164722/4715872
- docs/man/upsd.conf.txt: fix multi-paragraph attachments in sections

2.422 2024-01-15 Vytautas Survila <vytautas.survila@gmail.com>

- drivers/nutdrv_qx.c: return actual number of bytes we copied to buffer

2.423 2024-01-15 Jim Klimov <jimklimov@gmail.com>

- drivers/apc-mib.c: bump DRIVER_VERSION to double-digits 1.60 is more future-proof than 1.7 (after 1.6) :)

2.424 2024-01-15 Christian Manal <manal@uni-bremen.de>

- drivers/apc-mib.c: update MIB values

2.425 2024-01-14 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/Makefile.am: neuter the fictive nutscan_add_commented_option_to_device.html recipe for now [#2221]
- docs/man/Makefile.am: fix nutscan_add_commented_option_to_device.html recipe for BSD make [#2221]

2.426 2024-01-13 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/scan_usb.c: code after declarations [#2221]
- docs/man/nutscan_add_option_to_device.txt, docs/man/Makefile.am: fix markup for a single asciidoc text describing several command names [#2221] https://asciidoc-py.github.io/userguide.html#X1
- tools/nut-scanner/nut-scanner.c: disambiguate and un-shadow link_detail_level variables [#2221]

2.427 2024-01-12 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/scan_usb.c, UPGRADING.adoc: make use of nutscan_add_commented_option_to_device() for link-specific details if not suggesting to use them directly [#2221]
- NEWS.adoc, docs/man/nutscan_add_option_to_device.txt, tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c: libnutscan API: add a concept of commented-away suggested option values instead of hacks in prepared config data [#2221]
- NEWS.adoc: reword the entry about desktop integration [#2205]
- NEWS.adoc, docs/man/nut-scanner.txt, docs/man/nutscan_scan_usb.txt, docs/nut.dict, tools/nut-scanner/Makefile.am, tools/nut-scanner/README.adoc, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_usb.c: nut-scanner: change "-U" handling to tweak generated device configuration section level of detail [#2221]
- NEWS.adoc, drivers/Makefile.am: drivers/Makefile.ami, NEWS.adoc: fix builds --without-usb [#2262]
- docs/nut.dict, NEWS.adoc: document recent improvements to nut-scanner
- docs/man/nut-scanner.txt: change markup for code and output examples [#2247]
- NEWS.adoc: debug level initialized earlier now [#2259] Checked for a similar need in other programs - nut-scanner does it already, and others start with the getopt() loop.
- drivers/main.c: move NUT_DEBUG_LEVEL and "-D" CLI option handling to start of program [#2259] This allows to use upsdebugx() in early initialization methods like upsdrv_makevartable()

2.428 2024-01-11 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: add info about #2259
- drivers/main.c: if nutdrv_qx is built for serial-only support but asked to use USB options at run-time, help the user about the discrepancy [#2259]
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: report in debug trace which USB implementation is used [#2259]

2.429 2024-01-03 Jim Klimov <jimklimov+nut@gmail.com>

- docs/images/ci/jenkins-nut.css: update hosting logo from FH to DO [#2192] Imported from NUT CI farm where this CSS was edited in the beginning of the month
- tests/NIT/nit.sh: testcase_sandbox_nutscanner_list(): adjust generated section names to nut-scanner evolution
- tools/nut-scanner/scan_avahi.c: fix indentation to match surrounding code [#2246]
- tools/nut-scanner/Makefile.am: bump libnutscan version due to scan_nut_simulation.c [#2246]
- tools/nut-scanner/scan_avahi.c: fix indentation to match surrounding code [#2246]
- tools/nut-scanner/Makefile.am: bump libnutscan version due to scan_nut_simulation.c [#2246]
- scripts/Windows/DriverInstaller/README.adoc: update link to libwdi
- docs/ci-farm-lxc-setup.txt: note path to DHCP lease file for troubleshooting

2.430 2024-01-02 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: fix NUT_AM_MAKE_CAN_EXPORT test syntax for Solaris ksh
- Makefile.am, clients/Makefile.am, common/Makefile.am, configure.ac, drivers/Makefile.am, include/Makefile.am, lib/Makefile.am, server/Makefile.am, tests/Makefile.am, tests/NIT/Makefile.am, tools/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am, configure.ac: constrain makefile exports to implementations where NUT_AM_MAKE_CAN_EXPORT
- Makefile.am, clients/Makefile.am, common/Makefile.am, drivers/Makefile.am, include/Makefile.am, lib/Makefile.am, server/Makefile.am, tests/Makefile.am, tests/NIT/Makefile.am, tools/Makefile.am, tools/nut-scanner/Makefile.am: **/Makefile.am: export PATH and CCACHE**_ envvars to be used during rebuilds
- configure.ac: remember PATH_DURING_CONFIGURE
- configure.ac: track selected CCACHE_* envvars as "precious"
- configure.ac: allow to specify --with-CCACHE_NAMESPACE=... for the build
- docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, include/Makefile.am, scripts/python/module/Makefile.am, tests/NIT/Makefile.am, tools/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am: add top line descriptions where missing
- ci_build.sh: fix reporting of used envvars (avoid shell functions/aliases/...)

2.431 2023-12-24 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/scan_nut_simulation.c: Fix declaration-after-code in scan_nut_simulation.c

2.432 2023-12-24 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/scan_nut_simulation.c: nut-scanner: actually simplify simulation scan code Reimplement scan algorithm, and remove non-portable scandir code. Get back to my early implemention, using opendir/readdir, as in common/common.c. This works and is portable!
- tools/nut-scanner/scan_nut_simulation.c: nut-scanner: simplify simulation scan code Remove non-portable directory-filtering code, since there is no actual need for it, and very few chances of false positive results.
- tools/nut-scanner/scan_nut_simulation.c: nut-scanner: don't require alphasort Sorting is not needed, and despite alphasort being supported since: * Since glibc 2.10: (_POSIX_C_SOURCE >= 200809L) * || Glibc versions ⇐ 2.19: (_BSD_SOURCE |\| _SVID_SOURCE) it seems still not supported on some platforms.
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/scan_nut_simulation.c: nut-scanner: fix nutscan_scan_nut_simulation prototype Please CI and add void args

2.433 2023-12-23 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nut-scanner.txt: nut-scanner: spell checks
- docs/man/nut-scanner.txt, tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c: nut-scanner: fix device-name collisions in generated conf When nut-scanner is called separately, to scan different buses, it will generate similar names for each of these: * USB scan > [nutdev1] > ... * NUT scan > [nutdev1] > ... * ... As a result, one can't just redirect nut-scanner outputs directly to ups.conf, without a *sed* hack workaround. Solution: simply refine the device names, like "nutdev-<method><id>". Ex: nutdev-usb1, nutdev-usb2, nutdev-nut1, nutdev-snmp1, nutdev-simulation1, ...

2.434 2023-12-22 Arnaud Quette <arnaud.quette@gmail.com>

- NEWS.adoc, data/driver.list.in, docs/developer-guide.txt, docs/man/Makefile.am, docs/man/nut-scanner.txt, docs/man/nutscan_init.txt docs/man/nutscan_scan_nut_simulation.txt, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-init.h, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_nut_simulation.c: nut-scanner: detect and configure NUT simulation devices (#2246) * nut-scanner: detect and configure NUT simlation devices Provide an additional nut-scanner "-n \| --nut_simulation_scan" option to detect and configure dummy simulation (.dev & .seq) from the default $sysconfdir. Also advertise NUT Simulation Devices in HCL. This should standardize and streamline the use of nut-scanner as an automatic detection and configuration tool. Closes: #networkupstools/nut/issues/2242
- NEWS.adoc, data/driver.list.in, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_nut.c: 2236 nut scanner reports non existent driver for nut discovery (#2245) * Start to advertise NUT support of itself * nut-scanner: NUT scan (old and Avahi) points at dummy-ups the previously pointed driver "nutclient" does not exist yet. At least points to a sane working default * Document in NEWS Closes: #networkupstools/nut/issues/2236

2.435 2023-12-15 Jim Klimov <jim@jimklimov.com>

- docs/ci-farm-lxc-setup.txt, docs/nut.dict: suggest dependency packages for LXC and QEMU

2.436 2023-12-10 Matt Merhar <mattmerhar@protonmail.com>

- NEWS.adoc, drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: reset driver parameters while enumerating With an Arduino Leonardo compatible board attached alongside a CyberPower CP1500PFCLCD, usbhid-ups would incorrectly conclude that there was no kernel driver attached to the UPS and then fail subsequent steps accordingly. The cause is the global usb_communication_subdriver_t struct; when a subdriver (e.g. arduino-hid) sets different values during the enumeration loop, they're not set back to defaults afterwards, causing issues with other subdrivers (e.g. cps-hid). So, if a subdriver doesn't match, set a selection of fields back to their default values using the newly added nut_usb_subdriver_defaults() before the next attempt.

2.437 2023-12-10 Jim Klimov <jimklimov+nut@gmail.com>

- README.adoc: use DigitalOcean referral campaign identifier in badge URL [#2192]
- tools/nut-scanner/scan_usb.c: hide bcdDevice logic behind ifdef WITH_BCD_DEVICE [#2221] Earlier approaches to only partially comment away code trigger static analysis warnings here or there, and we do not want to fully drop it here just yet.
- tools/nut-scanner/scan_usb.c: comment away bcdDevice which we do not currently use [#2221]

2.438 2023-12-10 Arnaud Quette <Arnaud.Quette@free.fr>

- tools/nut-scanner/scan_usb.c: nut-scanner USB: disable some output results Some additional fields, like *device* (device number / path), may introduce more issues than solving. Hence disable these

2.439 2023-12-05 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/man/usbhid-ups.txt, docs/nut.dict, drivers/usbhid-ups.c: drivers/usbhid-ups.c, docs/man/usbhid-ups.txt, NEWS.adoc introduce "onlinedischarge_log_throttle_hovercharge" setting [#2215]
- drivers/usbhid-ups.c, docs/man/usbhid-ups.txt, NEWS.adoc: introduce "onlinedischarge_log_throttle_sec" setting and/or throttling by changes of battery.charge [#2214]
- NEWS.adoc, docs/man/usbhid-ups.txt, docs/nut.dict, drivers/usbhid-ups.c: drivers/usbhid-ups.c, docs/man/usbhid-ups.txt, NEWS.adoc deprecate "onlinedischarge" in favor of "onlinedischarge_onbattery" option name [#2213]
- docs/man/upsmon.txt: update with NOTCAL state
- conf/upsmon.conf.sample.in: update NOTIFYFLAG examples

2.440 2023-12-01 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: note that "NEW Keor Multiplug" is not supported as of 2023 . . . per "mrc989" report on IRC channel
- server/conf.c, clients/upsmon.c: align logged DEBUG_MIN NUM casing and wording with the setting/docs
- clients/upsmon.c: when POLLFAIL_LOG_THROTTLE_MAX>0 takes effect, report also how often it would report in seconds [#2207]
- clients/upsmon.c: align logged POLLFAIL_LOG_THROTTLE_MAX casing with the setting/docs
- NEWS.adoc, clients/upsmon.c: clients/upsmon.c: forget poll-failure error-states and the counts involved when we reload config [#2207]
- clients/upsmon.c: markup/style typo fix
- NEWS.adoc, clients/upsmon.c, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/man/upsmon.txt: clients/upsmon.c, NEWS.adoc: fix an off-by-one error with POLLFAIL_LOG_THROTTLE_MAX loop counting [#2207]
- clients/upsmon.c, NEWS.adoc: Forget POLLFAIL_LOG_THROTTLE_MAX before configuration reload [#2207]
- clients/upsmon.c: clarify wording about POLLFAIL_LOG_THROTTLE_MAX "standard behavior"
- docs/man/upsmon.txt, docs/man/upsmon.conf.txt, conf/upsmon.conf.sample.in: clarify wording about POLLFAIL_LOG_THROTTLE "standard behavior"

2.441 2023-11-28 Jim Klimov <jim@jimklimov.com>

- m4/nut_check_aspell.m4: check if aspell can use the discovered tex module (binary arch match) and try to fall back to built-in defaults if not Either way, avoid an unusable `make spellcheck` which just reports a massive failure.

2.442 2023-11-27 Laurent Bigonville <bigon@bigon.be>

- NEWS.adoc, scripts/python/app/NUT-Monitor-py3qt5.in: Set the DesktopFileName in scripts/python/app/NUT-Monitor-py3qt5 This binds the application with the desktop file and allow the Desktop to display the proper icon and application name.

2.443 2023-11-27 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/app/NUT-Monitor-py2gtk2.in: leave a comment to suggest using g_set_prgname() Suggested by Laurent Bigonville Currently I've failed to find a test system with Py2 \+ GTK2 preinstalled (the one I had was updated and half the old dependencies are missing), and did not quickly find python syntax examples for it as well.
- scripts/python/app/NUT-Monitor-py3qt5.in: take a cautious approach to setDesktopFileName()
- NEWS.adoc, docs/nut.dict: checking and formatting for the entry about DesktopFileName in NUT-Monitor-py3qt5 [#2205]

2.444 2023-11-27 Jim Klimov <jim@jimklimov.com>

- m4/nut_check_aspell.m4: run a live check if the detected aspell is useful
- m4/nut_check_aspell.m4: AC_SUBST detected paths after checking if detected aspell is useful

2.445 2023-11-25 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/app/NUT-Monitor, NEWS.adoc: check if implementation scripts exist before looking into them for a PYTHON* version Closes: #2201
- NEWS.adoc: note the fix for #2198
- scripts/python/app/NUT-Monitor, NEWS.adoc: fix typo (qt3⇒qt5) Closes: #2199

2.446 2023-11-24 Axel Gembe <axel@gembe.net>

- configure.ac, include/timehead.h: build: Add a fallback for timegm on Windows / MINGW MINGW headers do not provide a `timegm` implementation but there is a `_mkgmtime` which does the same: https://learn.microsoft.com/en-us/cpp/c-runtime-library/reference/mkgmtime-mkgmtime32-mkgmtime64

2.447 2023-11-23 Xin LI <delphij@FreeBSD.org>

- drivers/libusb1.c: Remove unnecessary validation for bus_num The libusb_get_bus_number() function serves as a simple accessor for the bus number of the opaque device struct. Unlike libusb_get_port_number(), it does not have the ability to convey errors back to the caller, and a bus number of 0 is a valid value. Therefore, any validation around bus_num is redundant. This commit removes the unnecessary validation code related to bus_num.

2.448 2023-11-23 Axel Gembe <axel@gembe.net>

- drivers/apc_modbus.c: apc_modbus: Add target outlet group to load.* and shutdown.* commands Maybe this is needed, needs to be confirmed.
- drivers/apc_modbus.c: apc_modbus: Always store times in UTC This changes `_apc_modbus_date_from_nut` to use `timegm` instead of `mktime` which does not add the current time zone information. This fixes dates that are off-by-one compared to what was set.
- drivers/apc_modbus.c: apc_modbus: Fix re-read of values at the end of setvar The for loop searching for the correct register map kept on looping after finding the value which caused the `apc_map` mariable to potentially point to the wrong register map. This can cause the re-read of the set value at the end of the function to fail.
- drivers/apc_modbus.c, drivers/apc_modbus.h: apc_modbus: Add ups.test.result This outputs the test result, the source of the start of the test and a result modifier.

2.449 2023-11-22 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx.c: armac_command(): avoid "-Wdeclaration-after-statement" Also minor cleanup with comments markup
- drivers/nutdrv_qx.c: load_armac_endpoint_cache(): avoid "-Wdeclaration-after-statement" situations Also log if effectively skipping the method (not libusb-1.x build)
- README.adoc: add links to custom Jenkins Dynamatrix library and setup for NUT
- README.adoc: do our best to top-align the cells in acknowledgements table, and comment about caveats of known renderers
- README.adoc: rephrase the sponsoring/starring tip section
- README.adoc: dumb down the table format for GitHub renderer
- README.adoc: no need for a plus in table for multi-paragraph cells
- README.adoc: align columns in vendor logo table; leave a FIXME comment for PDF renditions
- README.adoc: try to fix vendor acknowledgements table width
- README.adoc: refer from "NUT and Ecosystem" to "Acknowledgements for NUT CI and Ops" table with vendor logos [#2192]
- README.adoc: use single PNG for OpenCollective vendor logo
- README.adoc, docs/nut.dict: README.adoc: use alt/url/width/height markup for vendor logo images
- docs/Makefile.am, docs/images/ci/OC_logo_merged_140x26.png, docs/images/ci/OC_logo_merged_171x32.png: docs/images/-ci/OC_logo_merged_XxY.png: add merged (and also resized) single image files

- docs/asciidoc-vars.conf: fix "imagesdir" for GitHub rendering
- README.adoc: fix title markup
- README.adoc, docs/nut.dict: README.adoc: make "NUT and the ecosystem" a separate chapter (including a "TIP" on GitHub starring)
- .github/pull_request_template.md: remind to Please star NUT on GitHub, this helps with sponsorships [#2192]
- README.adoc: start with a note about sponsorship and GitHub stars

2.450 2023-11-21 Jim Klimov <jimklimov+nut@gmail.com>

- README.adoc, docs/nut.dict: README.adoc: fix GitHub rendering of logos in the README [#2192]
- docs/Makefile.am, docs/images/ci/jenkins-nut.txt: docs/Makefile.am: list IMAGE_LOGO_FILES andi IMAGE_LOGO_FILES_JENK for EXTRA_DIST
- scripts/python/module/MANIFEST.in, scripts/python/module/Makefile.am, scripts/python/module/setup.py.in: scripts/python/-module/MANIFEST.in: distribute "tox.ini" in a different way so it is only in sdist [#2193]
- drivers/main.c, NEWS.adoc: fix fallout of TOCTOU fixes for socket file non-default permissions [#2185]

2.451 2023-11-20 Jim Klimov <jimklimov+nut@gmail.com>

- README.adoc, docs/images/ci/DO_Powered_by_Badge_blue_140pxW.png, docs/images/ci/GitHub-Mark-140pxW.png, docs/image nut-transparent-bg-140pxW.png, docs/nut.dict: README.adoc: try to adjust logo image widths
- README.adoc: use PNG versions of logos (avoid requirement of inkscape etc. to build PDF)
- docs/images/ci/AppVeyor_logo-ar21.png, docs/images/ci/AppVeyor_logo-ar21.svg: docs/images/ci/AppVeyor_logo-ar21.png: convert from SVG to PNG with Inkscape
- docs/images/ci/AppVeyor_logo-ar21.svg: copy from https://www.vectorlogo.zone/logos/appveyor/appveyor-ar21.svg
- docs/images/ci/OC_logotype.png, docs/images/ci/OC_logotype.svg: docs/images/ci/OC_logotype.png: convert from SVG to PNG with Inkscape
- docs/images/ci/OC_logo-watercolor-256.png: copy from https://next-images.opencollective.com/_next/image?url=%2Fstatic%2Fima logo-watercolor-256.png&w=32&q=75
- docs/images/ci/gandi-ar21.png: convert from SVG to PNG with Inkscape
- docs/images/ci/DO_Powered_by_Badge_blue.png, docs/images/ci/DO_Powered_by_Badge_blue.svg: docs/images/ci/DO_Powered_ copy from https://opensource.nyc3.cdn.digitaloceanspaces.com/attribution/assets/PoweredByDO/DO_Powered_by_Badge_blue.png
- docs/images/ci/CircleCI_vertical_black_logo.png, docs/images/ci/CircleCI_vertical_black_logo.svg: docs/images/ci/CircleCI_vertica copy from https://brand.circleci.com/api/asset/download.png?asset_id=47134418&auth=XCzXjqT6lGYuIc0lH9SjTA
- README.adoc: use locally stored logos of acknowledged helper projects
- docs/images/ci/CircleCI_vertical_black_logo.svg: copy from https://brand.circleci.com/api/asset/download.svg?asset_id=47134422&
- docs/images/ci/AppVeyor_logo-2x.png: copy from https://ci.appveyor.com/assets/images/logo-2x.png
- docs/images/ci/OC_logotype.svg: copy from https://opencollective.com/static/images/logotype.svg
- docs/images/ci/DO_Powered_by_Badge_blue.svg: copy from https://opensource.nyc3.cdn.digitaloceanspaces.com/attribution/-assets/PoweredByDO/DO_Powered_by_Badge_blue.svg [#2192]
- docs/images/ci/GitHub-Mark-ea2971cee799.png: copy from https://github.githubassets.com/assets/GitHub-Mark-ea2971cee799.png
- docs/images/ci/gandi-ar21.svg: docs/images/gandi-ar21.svg: copy from nut-website

- README.adoc: extend the Acknowledgements chapter with logos of organizations and projects which help ensure NUT project operations on a continuous basis [#2192]
- drivers/main.c: clarify numeric errno for faults of fstat/chmod/chown/... for socket file [#2185]
- scripts/python/module/tox.ini: revise relative paths made available for source testing [#2186]
- scripts/python/module/Makefile.am: arrange for "make tox"

2.452 2023-11-19 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/module/.gitignore: Update .gitignore
- .github/workflows/PyNUTClient.yml: Update PyNUTClient.yml
- .github/workflows/PyNUTClient.yml: Update PyNUTClient.yml
- .github/workflows/PyNUTClient.yml: Update PyNUTClient.yml
- .github/workflows/PyNUTClient.yml: Update PyNUTClient.yml
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- .github/workflows/PyNUTClient.yml: Update PyNUTClient.yml

2.453 2023-11-18 Jim Klimov <jimklimov+nut@gmail.com>

- .github/workflows/PyNUTClient.yml: convert to use scripts/python/module/Makefile.am directly, to avoid discrepancies in two logic impementations
- scripts/python/module/tox.ini: update pip as a "commands_pre" action [#2186]
- .github/workflows/PyNUTClient.yml: fix typo determining TAG_NAME
- scripts/python/module/Makefile.am, scripts/python/module/setup.py.in, scripts/python/module/tox.ini: Py: try to beat sense into packaging all the files
- scripts/python/module/Makefile.am: add "py-in" and "redist" targets for manual iterations
- scripts/python/module/.gitignore, scripts/python/module/Makefile.am, scripts/python/module/tox.ini: scripts/python/module: add Python testing framework handling (tox.ini etc) [#2186]

2.454 2023-11-16 Jim Klimov <jimklimov@gmail.com>

- drivers/Makefile.am: dist the apc_modbus.h file

2.455 2023-11-16 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/module/setup.py.in: update "keywords" to refer to NUT
- scripts/python/module/setup.py.in: constrain lowest known compatible python version
- scripts/python/module/setup.py.in: clean up formatting
- scripts/python/module/Makefile.am: create the PyNUTClient/src directory for better module naming
- scripts/python/module/Makefile.am: clean the many .pypi-dist* touch-files we have now

- scripts/python/module/Makefile.am: allow "make clean dist" to do a sane thing
- NEWS.adoc: update for arduino-hid [#2188]
- NEWS.adoc: Update NEWS.adoc
- drivers/arduino-hid.c: Update arduino-hid.c
- scripts/systemd/nut-driver-enumerator-daemon-activator.path.in, scripts/systemd/nut-driver-enumerator-daemon-activator.service.in, scripts/systemd/nut-driver-enumerator-daemon.service.in, scripts/systemd/nut-driver-enumerator.path.in: scripts/systemd/nut-driver-enumerator-daemon*.in: add NUT headers like in other systemd units

2.456 2023-11-15 Kelly Byrd <kbyrd@memcpy.com>

- drivers/arduino-hid.c: battery.runtime, status OL/OB and more for Arduino subdriver Add support for the common status flags as well as time remaining, battery voltage and other variables found in other HID subdrivers. The Arduino library always supported these items, just the NUT subdriver didn't pick them up so things like status were always OB.

2.457 2023-11-14 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/module/setup.py.in: do not install_require telnetlib which is not a standalone project [#2181]
- .github/workflows/PyNUTClient.yml, scripts/python/module/.gitignore, scripts/python/module/Makefile.am, scripts/python/module/setup.py.in: scripts/python/module/setup.py.in: reference the license file (GPLv3 per NUT COPYING doc) [#2180]
- scripts/python/module/setup.py.in: rectify whitespace
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: AVOID_REPARSE of the (empty) ups.conf in the main loop method [#2178]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: consider two empty UPS lists (conf and svc) as a valid situation (nothing to reconcile yet) [#2178]
- scripts/Solaris/nut-driver-enumerator.xml.in: do not return exit-code 42 if "No more changes to reconcile"
- server/conf.c, drivers/snmp-ups.c, clients/upsmon.c, clients/upssched.c: report if config errors were seen and we ignored them (went on)
- scripts/Solaris/nut.xml.in: revise "refresh" handling in umbrella service

2.458 2023-11-14 Axel Gembe <axel@gembe.net>

- drivers/apc_modbus.c, drivers/apc_modbus.h, drivers/upshandler.h: apc_modbus: Updates, command, writable variables and outlet group support This adds support for commands, writable variables and outlet groups. - For commands there is a new table called `apc_modbus_command_map` which defines the supported commands as a tuple of command name, register offset and value to write. This also adds a new instcmd status called `STAT_INSTCMD_CONVERSION_FAILED` for when conversion of values fails. On startup all the commands are registered using `dstate_addcmd`. This also adds support for the `upsdrv_shutdown` function. - For writable variables we added a new flag called `APC_VF_RW` to the existing variables that indicates a writable variable. We added code to convert from a string to UINT/INT/STRING variables with output in APCs register format. There is a new `_apc_modbus_setvar` function that handles setting variables and rereading them from the device. This also adds a new setvar status called `STAT_SET_CONVERSION_FAILED` for when conversion of values fails. Variables are now correctly set as `ST_FLAG_STRING` and `ST_FLAG_RW` and we call `dstate_setaux` to give a maximum length for strings. - For outlet groups, we now have names, configurable delays and commands per outlet group. Devices have an outlet group called MOG (Main outlet group) that switches all the outputs of the UPS and 1-3 SOGs (Switched outlet groups) that can be controlled independently. Note that MOG is `outlet.group.0` and the SOGs start at `outlet.group.1`. The outlet groups should have markings with the same index at the back of the unit. - This also reduces the length of some of the defines to make the variable maps more readable. - It also adds a comment to when the reopen matcher is created that clarifies why we create it.
- drivers/apcsmart-old.c: apcsmart-old: Fix return value for not writable variable The code returned `STAT_SET_UNKNOWN`, which is for variables that were not found, instead this should return `STAT_SET_INVALID`, which means that the variable is not writable.

2.459 2023-11-13 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: when used to `make spellcheck` from different directories (and of other-directory files) try to report the path to text source relative to NUT source
- scripts/augeas/README.adoc: for paragraph-quote block markup
- NEWS.adoc, UPGRADING.adoc, autogen.sh, configure.ac, docs/nut.dict, scripts/devd/.gitignore, scripts/devd/Makefile.am, tools/Makefile.am, tools/nut-usbinfo.pl: tools/nut-usbinfo.pl: generate FreeBSD style quirks information [#2159]
- data/html/README.adoc, docs/nut.dict, scripts/Windows/README.adoc, scripts/augeas/README.adoc, scripts/python/README. scripts/python/app/README.adoc, scripts/usb_resetter/README.adoc: scripts/*/README.adoc: revise markup for proper rendered visuals
- Makefile.am, data/html/Makefile.am, data/html/README, data/html/README.adoc, docs/nut.dict: data/html/README.adoc: rename to .adoc extension, refresh text and markup, add to spell-checking laundry list
- Makefile.am, tests/NIT/Makefile.am, tests/NIT/{README ⇒ README.adoc}: tests/NIT/README.adoc: rename to .adoc extension, refresh text and markup, add to spell-checking laundry list
- scripts/Makefile.am, scripts/RedHat/README, scripts/RedHat/README.adoc: scripts/RedHat/README.adoc: rename to .adoc extension, refresh text and markup, add to spell-checking laundry list
- docs/nut.dict, scripts/Makefile.am, scripts/usb_resetter/{README.md ⇒ README.adoc}: scripts/usb_resetter/README.adoc: convert from .md to .adoc, refresh text, add to spell-checking laundry list (also do EXTRA_DIST this directory)
- Makefile.am, scripts/hotplug/Makefile.am, scripts/hotplug/README, scripts/hotplug/README.adoc: scripts/hotplug/README.ado rename to .adoc extension, refresh text and markup, add to spell-checking laundry list
- Makefile.am, scripts/udev/Makefile.am, scripts/udev/README, scripts/udev/README.adoc: scripts/udev/README.adoc: rename to .adoc extension, refresh text and markup, add to spell-checking laundry list
- Makefile.am, docs/nut.dict, scripts/upsdrvsvcctl/Makefile.am, scripts/upsdrvsvcctl/README, scripts/upsdrvsvcctl/README.adoc: scripts/upsdrvsvcctl/README.adoc: rename to .adoc extension, refresh text and markup, add to spell-checking laundry list
- scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/Windows/Makefile.am, scripts/augeas/Makefile.am, scripts/devd/Makefile.am, scripts/hotplug/Makefile.am, scripts/systemd/Makefile.am, scripts/udev/Makefile.am, scripts/ufw/Makefile.am, scripts/upsdrvsvcctl/Makefile.am: scripts/*/Makefile.am: add/update headings about the NUT scripts/subdir for easier navigation
- Makefile.am, scripts/devd/Makefile.am, scripts/devd/README, scripts/devd/README.adoc: scripts/devd/README.adoc: rename to .adoc extension, refresh text and markup, add to spell-checking laundry list
- scripts/augeas/Makefile.am: comment about spellchecking and markup of README.adoc
- scripts/ufw/Makefile.am: comment about spellchecking and markup of README.adoc
- Makefile.am, docs/nut.dict, scripts/systemd/Makefile.am, scripts/systemd/README, scripts/systemd/README.adoc: scripts/systemd/README.adoc: rename to .adoc extension, refresh text and markup, add to spell-checking laundry list
- Makefile.am, scripts/Makefile.am: scripts/README.adoc: add to spell-checking laundry list
- scripts/README.adoc: refresh text and markup
- scripts/Makefile.am, scripts/{README ⇒ README.adoc}: scripts/README: rename to .adoc extension
- Makefile.am, docs/nut.dict, scripts/python/Makefile.am, scripts/python/app/README.adoc, scripts/python/module/README.adoc: scripts/python/*/README.adoc: add to spell-checking laundry list
- Makefile.am, docs/nut.dict, scripts/Windows/Installer/README.adoc, scripts/Windows/Makefile.am, scripts/Windows/README.ad scripts/Windows/*/README.adoc: add to spell-checking laundry list
- . . . /DriverInstaller/{README.txt ⇒ README.adoc}, scripts/Windows/Makefile.am: scripts/Windows/Makefile.am: fix EXTRA_DIST to cover many other scripts and resource files
- Makefile.am, docs/nut.dict, scripts/Solaris/Makefile.am: scripts/Solaris/README.adoc: add to spell-checking laundry list

- scripts/Solaris/README.adoc: refresh text and markup
- scripts/Solaris/Makefile.am, scripts/Solaris/{README ⇒ README.adoc}: scripts/Solaris/README: rename to .adoc extension

2.460 2023-11-12 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, clients/upsmon.c, clients/upsmon.h, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/nut.dict: clients/upsm et al: add notification support for NOTCAL state change [#2169]
- NEWS.adoc, docs/nut.dict: NEWS.adoc: document fix of INSTCMD NPE [#2155]
- NEWS.adoc: inject a new NUT v2.8.3 expectations plan
- NEWS.adoc: refer to PR #2156 for powerpanel fix
- docs/maintainer-guide.txt: ensure PyNUT publication
- .github/workflows/PyNUTClient.yml: only update TestPyPI repo if PyNUT sources changed

2.461 2023-11-11 root <root@deb128.rd-dpis77.local>

- clients/upsmon.c: It is important to reset the "CAL" status. This will be reset later if necessary.

2.462 2023-11-11 Jim Klimov <jim@jimklimov.com>

- .github/workflows/PyNUTClient.yml: limit auto-runs to NUT upstream [#2158] Other repos lack needed pypi credentials anyway.

2.463 2023-11-10 Jim Klimov <jimklimov+nut@gmail.com>

- tools/Makefile.am, autogen.sh: cause USB (and SNMP) file re-generation if generating script was changed
- autogen.sh, m4/nut_check_python.m4: update ad-hoc lists for python3.x program name detection
- drivers/powervar-hid.c: fix file perms
- autogen.sh: re-generate USB ID listing files if we updated sources
- tools/nut-usbinfo.pl: add a big scary header that nutscan-usb.h is generated

2.464 2023-11-09 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, conf/nut.conf.sample, conf/upsd.conf.sample, docs/config-notes.txt, docs/man/nut.conf.txt, docs/man/upsd.conf.txt, scripts/augeas/nutupsdconf.aug.in, server/conf.c, server/upsd.c, server/upsd.h: upsd: introduce support for ALLOW_NOT_ALL_LIST configuration toggle [#723]
- NEWS.adoc, server/upsd.c: server/upsd.c: server_load(): if listenersTotal != listenersValid, default to fatal start-up failure [#723]
- server/upsd.c: server_load(): if discrepancy of listenersTotal vs. listenersValid amounts to localhost-related addresses, let it slide [#723]
- server/upsd.c: server_load(): keep track of listenersTotal vs. listenersValid for certain localhost-related string names and IP addresses [#723]
- NEWS.adoc, server/upsd.c: server/upsd.c: server_load(): keep track of listenersTotal vs. listenersValid, and base "no listening interface available" diagnosis on the latter, not on the firstaddr→sock_fd [#723]

- server/upsd.c: setuptcp(): warn if requested to LISTEN on "localhost" by name (in case it misfires for IPv4 vs. IPv6)
- server/Makefile.am: limit SSL and LIBWRAP options to upsd (sockdebug/pipedebug is not networked)
- scripts/python/module/.gitignore: .pypi* touch-files [#2158]
- .github/workflows/PyNUTClient.yml: fix testpypi repo url argument [#2158]
- .github/workflows/PyNUTClient.yml: publish from our non-default directory location [#2158]
- .github/workflows/PyNUTClient.yml: update pypa action to "release/v1" (not chasing specific tag) [#2158]
- .github/workflows/PyNUTClient.yml: update doc reference comments [#2158]
- .github/workflows/PyNUTClient.yml: separate source preparation from distro preparation [#2158]
- scripts/python/module/README.adoc: reshuffle paragraphs for readability, fix a few typos [#2158]
- docs/maintainer-guide.txt: make note to check PyPI resources [#2158]
- .github/workflows/PyNUTClient.yml: refine yaml vs. shell syntax some more [#2158]
- .github/workflows/PyNUTClient.yml: refine yaml vs. shell syntax [#2158]
- scripts/python/module/setup.py.in: scripts/python/module/setup.py: refer to README.txt made for sdist [#2158]
- .github/workflows/PyNUTClient.yml, scripts/python/module/Makefile.am: actually better prefer "pip build" as the newest designed solution [#2158]
- .github/workflows/PyNUTClient.yml, scripts/python/module/Makefile.am: prefer setup.py for its sdist support [#2158]
- .github/workflows/PyNUTClient.yml: align with recent changes in scripts/python/module/Makefile.am [#2158]
- scripts/python/module/Makefile.am: use quieter "pip" build wrapper, not directly calling setup.py [#2158]
- scripts/python/module/Makefile.am: make sure the src/... module is found (wants *init*.py) [#2158]
- scripts/python/module/setup.py.in: fix README quoting as the long description [#2158]
- .github/workflows/PyNUTClient.yml, scripts/python/module/.gitignore, scripts/python/module/Makefile.am: scripts/python/module/Makefile.am: PyPI standard wants a README.txt to be present [#2158]
- scripts/python/module/Makefile.am: revise verbosity and selection of upload target [#2158]
- configure.ac, .github/workflows/PyNUTClient.yml: refine definition of NUT_SOURCE_GITREV_NUMERIC to avoid dash separator and use a dot (major.minor.patch.commitnumsince) [#2158]
- scripts/python/module/Makefile.am: revise GENERATED_DIST artifacts [#2158]
- scripts/python/module/setup.py.in: fix README content type [#2158]
- .github/workflows/PyNUTClient.yml, configure.ac, scripts/python/module/Makefile.am, scripts/python/module/setup.py.in: Introduce NUT_SOURCE_GITREV_NUMERIC for scripts/python/module/Makefile.am [#2158]
- configure.ac, scripts/python/Makefile.am, scripts/python/module/.gitignore, scripts/python/module/Makefile.am: Introduce scripts/python/module/Makefile.am to allow PyPI repo activities from command line [#2158]

2.465 2023-11-09 Greg Troxel <gdt@lexort.com>

- scripts/python/Makefile.am: python: Do not install setup.py

2.466 2023-11-09 Doug Nazar <nazard@nazar.ca>

- NEWS.adoc: Update with powerpanel driver changes

2.467 2023-11-08 Vytautas Survila <vytautas.survila@gmail.com>

- drivers/nutdrv_qx.c: support Armac O/850E/PSW #2153 Support for Armac UPS that uses interrupt instead of control msg. It will be enabled automatically only for devices that reports 0x82 as in endpoint address with interrupt transfer type

2.468 2023-11-08 Jim Klimov <jimklimov+nut@gmail.com>

- .github/workflows/PyNUTClient.yml, configure.ac, scripts/python/Makefile.am, scripts/python/module/.gitignore, scripts/python/module/{setup.py ⇒ setup.py.in}: .github/workflows/PyNUTClient.yml, scripts/python/module/setup.py: rename setup.py into a .in template; use @NUT_SOURCE_GITREV@ [#2158]
- .github/workflows/PyNUTClient.yml: publish (master) branch builds to TestPyPI repository [#2158]
- .github/workflows/PyNUTClient.yml: follow warnings for token access [#2158]
- .github/workflows/PyNUTClient.yml: update set-output action ⇒ GITHUB_OUTPUT file [#2158] Follow warnings into https://github.blog/changelog/2022-10-11-github-actions-deprecating-save-state-and-set-output-commands/
- .github/workflows/PyNUTClient.yml: use definitive version of pypa action - v1.8.10 (current latest) [#2158]
- .github/workflows/PyNUTClient.yml: use definitive version of pypa action [#2158]
- scripts/python/module/setup.py: note the renaming of README.adoc
- .github/workflows/PyNUTClient.yml: fix shell syntax [#2158]
- .github/workflows/PyNUTClient.yml: fix shell syntax [#2158]
- .github/workflows/PyNUTClient.yml: fix shell syntax [#2158]
- .github/workflows/PyNUTClient.yml: use default github-hosted runner [#2158]
- .github/workflows/PyNUTClient.yml: also publish master-branch rolling changes [#2158]
- NEWS.adoc, scripts/python/Makefile.am, scripts/python/{README ⇒ README.adoc}, scripts/python/app/{README ⇒ README.adoc}, scripts/python/module/{README ⇒ README.adoc}: scripts/python/*/README: rename to *.adoc extension [#1953]

2.469 2023-11-08 Jim Klimov <jim@jimklimov.com>

- .github/workflows/PyNUTClient.yml, NEWS.adoc, scripts/python/module/README, scripts/python/module/setup.py: Add recipes for PyPI publishing of PyNUTClient bindings for NUT [#2158] Note: PyPI names are case-insensitive, and "pynut" was occupied.

2.470 2023-11-07 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-usbinfo.pl: track preference of certain drivers over others [#1021]
- NEWS.adoc, docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_add_option_to_device.txt, docs/nut.dict, tools/nut-scanner/Makefile.am, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c, tools/nut-scanner/scan_usb.c, tools/nut-usbinfo.pl: tools/nut-usbinfo.pl, nut-scanner: extend to track alt_driver_names in generated config suggestions
- tools/nut-usbinfo.pl: track all suitable driver names (in comments)

2.471 2023-11-07 Doug Nazar <nazard@nazar.ca>

- drivers/powerp-txt.c: powerpanel: Rewrite status parsing of text protocol to be generic Instead of having several scanf formats for different devices, parse the individual fields provided only.
- drivers/powerp-bin.c: powerpanel: Don't report errors about output voltage if not available
- drivers/libhid.c: Fix passing of errors up from libusb 1.x. The api for get_item_buffered() requires the actual error to be in errno which was automatic for libusb 0.x but libusb 1.x doesn't use errno. Otherwise a poll-only driver will miss errors like disconnects and never try to reconnect.
- drivers/dstate.c: Fix SIGSEGV while preforming INSTCMD Parameter arg[2] is not guaranteed to be valid while preforming INSTCMD. Don't pass directly to main_instcmd().

2.472 2023-11-06 Jim Klimov <jim@jimklimov.com>

- configure.ac: quiece -Wincompatible-function-pointer-types-strict for clang-17 on some platforms [#823]

2.473 2023-11-05 Kelly Byrd <kbyrd@memcpy.com>

- drivers/libusb0.c, drivers/libusb1.c, drivers/nut_libusb.h, drivers/usb-common.h: Add usb_config_index to usb_communication_subdri default to 0. The tactical goal of this change is to change ret = libusb_get_config_descriptor(device, (uint8_t)usb_subdriver.hid_rep_ind &conf_desc); to ret = libusb_get_config_descriptor(device, (uint8_t)usb_subdriver.usb_config_index, &conf_desc); Before this change, libusb1.c did libusb_get_config_descriptor() with a config index equal to the interface number. For composite devices using an interface index > 0, this is usally the wrong choice. Concretely, I'm using an Arduino for a DIY UPS project and these are composite devices with multiple interfaces under the first (and only) config descriptor. In the USB descriptor heirarchy, deivce descriptors have config descriptors which have interface descriptors. Also, nearly all USB devices have a single configuration (index 0). In order to do this, I added a new member alongside the existing hid_rep_idex and hid_desc_index. I chose to do this instead of using the add_var method because this member is used in places in very similar ways to how hid_rep_index and hid_desc_index is used. This new member defaults to 0 which covers the majority of USB devices. Any future subdriver is able to use this if a device requires it. For existing subdrives, we'll just use an index of 0. I also changed some debug logging to print out the config index where the code was already printing the interface index.

2.474 2023-11-05 Fabrice Fontaine <fontaine.fabrice@gmail.com>

- m4/nut_check_python.m4: allow overriding of PYTHON{2,3}_SITE_PACKAGES Allow the end-user to override PYTHON{2,3}_SI as this can be useful when cross-compiling

2.475 2023-11-03 Fabrice Fontaine <fontaine.fabrice@gmail.com>

- m4/nut_compiler_family.m4: fix cross-compilation Do not use isystem with host paths when cross-compiling

2.476 2023-11-02 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: nut_enable_inplace_runtime: pass libexecdir if specified
- docs/man/upsmon.txt: avoid characters (some unicode space) that some versions of asciidoc dislike
- NEWS.adoc, docs/nut.dict, lib/libnutclientstub.pc.in: Clarify what is libnutclientstub
- docs/config-prereqs.txt, docs/nut.dict: clarify about /dev/shm and noexec option [#2143 follow-up]
- docs/config-prereqs.txt: small fixes to Slackware 15 chapter [#2143 follow-up]

- docs/man/al175.txt, docs/man/apc_modbus.txt, docs/man/apcupsd-ups.txt, docs/man/asem.txt, docs/man/bcmxcp.txt, docs/man/bcmxcp_usb.txt, docs/man/belkin.txt, docs/man/belkinunv.txt, docs/man/bestfcom.txt, docs/man/bestfortress.txt, docs/man/bestuferrups.txt, docs/man/bestups.txt, docs/man/blazer_ser.txt, docs/man/blazer_usb.txt, docs/man/clone.txt, docs/man/dummy-ups.txt, docs/man/etapro.txt, docs/man/everups.txt, docs/man/gamatronic.txt, docs/man/genericups.txt, docs/man/isbmex.txt, docs/man/ivtscd.txt, docs/man/liebert-esp2.txt, docs/man/liebert.txt, docs/man/macosx-ups.txt, docs/man/masterguard.txt, docs/man/metasys.txt, docs/man/microdowell.txt, docs/man/microsol-apc.txt, docs/man/netxml-ups.txt, docs/man/nutdrv_atcl_usb.txt, docs/man/nutdrv_qx.txt, docs/man/nutdrv_siemens_sitop.txt, docs/man/oneac.txt, docs/man/optiups.txt, docs/man/pijuice.txt, docs/man/powercom.txt, docs/man/powerpanel.txt, docs/man/rhino.txt, docs/man/richcomm_usb.txt, docs/man/safenet.txt, docs/man/skel.txt, docs/man/snmp-ups.txt, docs/man/solis.txt, docs/man/tripplite.txt, docs/man/tripplitesu.txt, docs/man/upscode2.txt, docs/man/usbhid-ups.txt, docs/man/victronups.txt: Fix man pages to have SYNOPSIS as the second section per standard
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: update about docbook-xml / linuxdoc-tools [#2142]
- m4/nut_check_asciidoc.m4, configure.ac: separate A2X_MIN_VERSION from ASCIIDOC_MIN_VERSION [#2142]
- docs/config-prereqs.txt, docs/nut.dict: add diffutils to Slackware baseline (not in default install)
- scripts/Windows/Makefile.am: avoid "Using $< in a non-suffix rule context is a GNUmake idiom" for non-GNU makes
- docs/Makefile.am: avoid "Using $< in a non-suffix rule context is a GNUmake idiom" for non-GNU makes
- docs/config-prereqs.txt, docs/nut.dict: docs/nut.dict: update spellchecker to make older systems happy
- configure.ac: dumb down the check for HAVE_WINDOWS_H to cater for older autotools

2.477 2023-11-01 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt, docs/nut.dict: add a chapter on Slackware 15 build environment - clarify Sotirov's SlackPack
- configure.ac: only define that we HAVE_WINDOWS if both the minimally required tools and headers are in place
- m4/nut_check_headers_windows.m4: add automake conditionals for detected header files
- docs/config-prereqs.txt, docs/nut.dict: add a chapter on Slackware 15 build environment - clarify Alien Slack Builds
- docs/config-prereqs.txt, docs/nut.dict: add a chapter on Slackware 15 build environment
- scripts/Windows/Makefile.am: limit binary builds to cases where we HAVE_WINDOWS [#2142]
- docs/man/huawei-ups2000.txt, docs/man/liebert-esp2.txt: fix titles
- configure.ac: bump AC_INIT to development version 2.8.1.1

2.478 2023-10-31 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, UPGRADING.adoc, docs/docinfo.xml.in: Revert "NEWS.adoc, UPGRADING.adoc, docs/docinfo.xml.in: finalize text before NUT v2.8.1 release" This reverts commit 909705233877a45953f9c739abd9bc8156a05627.
- configure.ac: update AC_INIT for NUT v2.8.1 release
- docs/configure.txt, scripts/Windows/README.adoc, scripts/Windows/build-mingw-nut.sh: update examples for NUT v2.8.1 release
- appveyor.yml: update for NUT v2.8.1 release
- docs/maintainer-guide.txt: revise procedures for NUT v2.8.1 release
- docs/maintainer-guide.txt: update filenames to adjust for changes leading up to NUT v2.8.1 release
- docs/docinfo.xml.in: set the date for NUT v2.8.1 release
- NEWS.adoc, UPGRADING.adoc, docs/docinfo.xml.in: finalize text before NUT v2.8.1 release

- ci_build.sh: for default developer builds without parameters, nowadays we should have default warnings active and fatal
- tests/NIT/nit.sh: take advantage of NUT_QUIET_INIT_UPSNOTIFY=true [#2136]
- scripts/Windows/Installer/README.adoc: add initial notes on the NUT for Windows Installer [#1485]
- scripts/Windows/build-mingw-nut.sh: handle optional cgi-bin location and lack of NUT libs among system dependencies more eloquently (WRT build log)
- scripts/Windows/build-mingw-nut.sh: allow caller to customize WINDIR, TOP_DIR, BUILD_DIR and INSTALL_DIR
- scripts/Windows/build-mingw-nut.sh: double-quote path variables
- scripts/Windows/build-mingw-nut.sh: handle optional cgi-bin location more eloquently (WRT build log)
- INSTALL.nut.adoc, NEWS.adoc, appveyor.yml, ci_build.sh, docs/config-prereqs.txt, scripts/Windows/Makefile.am, scripts/Windows/{README ⇒ README.adoc}, scripts/Windows/build-mingw-prereqs.sh: Rename scripts/Windows/README ⇒ scripts/Windows/README.adoc
- docs/man/apc_modbus.txt: update the man page with caveats applicable at the publication time (Oct 2023) [#2063 follow-up]

2.479 2023-10-30 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac, scripts/Windows/Installer/.gitignore, scripts/Windows/Installer/{NUT-Installer.xml ⇒ NUT-Installer.xml.in}: scripts/Wi Installer.xml: make it a .in template and substitute NUT PACKAGE_VERSION
- clients/upsc.c: typo fix in self-identification message
- drivers/upsdrvctl.c: fix formatting string for wstat debug-print [#2135]
- NEWS.adoc, drivers/riello.c, drivers/riello_ser.c, drivers/riello_usb.c: drivers/riello*.c: fix back bit maths changed with #1106
- UPGRADING.adoc: revise envvars that tweak specific message verbosity

2.480 2023-10-29 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/upsdrvctl.c: trace (and timestamp) the exit paths from tool [#2135]
- scripts/Aix/nut.init.in, scripts/HP-UX/nut-drvctl.sh, scripts/HP-UX/nut-upsd.sh, scripts/HP-UX/nut-upsmon.sh, scripts/RedHat/upsd.in, scripts/RedHat/upsmon.in, scripts/Solaris/nut.in, scripts/Solaris/svc-nut-monitor.in, scripts/Solaris/svc-nut-server.in, scripts/Solaris8/S99upsmon: Suggest NUT_QUIET_INIT_UPSNOTIFY=true in sample init-scripts [#2136]
- common/common.c, NEWS.adoc, docs/nut.dict: support NUT_QUIET_INIT_UPSNOTIFY envvar to hide upsnotify "failed... will not spam more" messages [#2136]
- drivers/upsdrvctl.c: differentiate waitpid(..., WNOHANG) returns of "-1" vs "0" [#2135]
- drivers/upsdrvctl.c: make use of return value from execv()
- drivers/upsdrvctl.c: trace-debug the waitpid() return info
- drivers/upsdrvctl.c: forkexec(): fix comments and whitespaces
- drivers/upsdrvctl.c: forkexec(): fix return type of waitpid()
- drivers/upsdrvctl.c: do not treat a driver initialization timeout as immediate error for upsdrvctl exit code - review the results again [#2134]

2.481 2023-10-28 Jim Klimov <jimklimov+nut@gmail.com>

- conf/ups.conf.sample, docs/man/ups.conf.txt: further clarify behavior of maxstartdelay [#2134]
- conf/ups.conf.sample, docs/man/ups.conf.txt: clarify behavior of maxstartdelay [#2134]
- clients/upsmon.c: Revert "clients/upsmon.c: remove doshutdown() *attribute*noreturn annotation, now it can [#2133]" This reverts commit 2e7263812b4f97cb0d667550e0e660ab50c2ed9e.
- NEWS.adoc, clients/upsmon.c, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt: clients/upsmon.c et al: adjust definition of SHUTDOWNEXIT to allow a finite delay between SHUTDOWNCMD and exit() [#2133]
- clients/upsmon.c: remove doshutdown() *attribute*noreturn annotation, now it can [#2133]

2.482 2023-10-27 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, clients/upsmon.c, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/nut.dict: clients/upsmon.c et al: introduce SHUTDOWNEXIT boolean option [#2133]

2.483 2023-10-26 desertwitch <24509509+desertwitch@users.noreply.github.com>

- NEWS.adoc: reference respective PR for repeater_disable_strict_start option
- drivers/dummy-ups.c, docs/man/dummy-ups.txt, NEWS.adoc: introduce repeater_disable_strict_start config option

2.484 2023-10-26 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: update list of dummy-ups improvements for NUT v2.8.1

2.485 2023-10-25 desertwitch <24509509+desertwitch@users.noreply.github.com>

- drivers/dummy-ups.c: relax error handling to prevent premature driver termination

2.486 2023-10-25 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/apcsmart.c: apc_getcaps(): revert to behavior like in NUT v2.7.4 about invalid nument/entlen value(s) [#1941]
- drivers/apcsmart-old.c: fix DRIVER_NAME to reflect "old"ness of this driver

2.487 2023-10-24 desertwitch <24509509+desertwitch@users.noreply.github.com>

- clients/upsmon.c: debug msgs for possible FSD conditions on conn drop
- clients/upsmon.c: sanity check status for debug msg on conn drop
- clients/upsmon.c: print last remembered line state in connection drop debug msg

2.488 2023-10-24 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/apcsmart-old.c: do_capabilities(): revert to behavior like in NUT v2.7.4 about invalid nument/entlen value(s) [#1941]
- Jenkinsfile-dynamatrix: leave "enableDebugTraceGithubStatusHighlights=true" default just for fightwarn-like branches

2.489 2023-10-23 desertwitch <24509509+desertwitch@users.noreply.github.com>

- clients/upsmon.c: keep last UPS linestate on drop_connection

2.490 2023-10-21 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: add a dynamatrixGlobalState.enableDebugTraceGithubStatusHighlights toggle

2.491 2023-10-21 Axel Gembe <axel@gembe.net>

- drivers/apc_modbus.c: apc_modbus: Add an early exit if a USB regex is non-zero A minuscule optimization.
- drivers/apc_modbus.c: apc_modbus: Use snprintf instead of strncpy `strncpy` does not necessarily zero terminate the buffer so we replace it with `snprintf` and add error checking. This also fixes an off-by-one in the `snprintf` error checking of the `_apc_modbus_double_to_nut` and `_apc_modbus_power_to_nut` functions and adds error checking to every `snprintf` call.
- drivers/apc_modbus.c, drivers/apcsmart.c, drivers/belkinunv.c, drivers/openups-hid.c, drivers/optiups.c, drivers/tripplitesu.c, include/common.h, tests/getvaluetest.c: Add `SIZEOF_ARRAY` macro and use where applicable This adds a new `SIZEOF_ARRAY` to `common.h` and changes some code to use it.

2.492 2023-10-19 Jim Klimov <jimklimov+nut@gmail.com>

- .gitignore: GitIgnore .ci*.txt* if some are left over in the NUT CI farm work area
- .gitignore: GitIgnore .ci*.txt* if some are left over in the NUT CI farm work area
- tests/NIT/nit.sh: avoid printing "Error:..." in successful cases This confuses CI log analyzer

2.493 2023-10-18 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: testcase_sandbox_nutscanner_list(): fix reporting
- report why a test case failed sanity-checks; * avoid grep output spilling to test log to avoid confusion; * revise that exactly expected port count was seen (that was the confusion); * use log_*() in that sanity-check block
- tests/NIT/nit.sh: tag more progress messages with respective testcase; revise upsd stopping after testcase_upsd_allow_no_device()
- tests/NIT/nit.sh: use log_separator() before sandbox_forget_configs() in testgroup*()
- tests/NIT/nit.sh: use NUT_DEBUG_PID envvar to help test-log readability
- NEWS.adoc, UPGRADING.adoc, common/common.c: common/common.c: optionally support NUT_DEBUG_PID envvar presence to include PID number in debug-level identifiers
- tests/NIT/nit.sh: sandbox_start_drivers(): report success or failure
- tests/NIT/nit.sh: report driver PIDs when debugging
- tests/NIT/nit.sh: tag progress/report messages emitted by test cases to help log readability
- tests/NIT/nit.sh: testcase_sandbox_start_drivers_after_upsd(): fix matching expression and explain why
- tests/NIT/nit.sh: testcase_sandbox_start_drivers_after_upsd(): bump timeout and explain why
- tests/NIT/nit.sh: better filter the processes we look at after sandbox_start_drivers() if debugging
- drivers/dummy-ups.c: bump © and version due to recent changes
- drivers/dummy-ups.c: avoid blank line in debug logs

- drivers/dummy-ups.c: refactor prepare_filepath() into one helper method
- drivers/dummy-ups.c: use better-qualified "fn" rather than potentially short "device_path" to stat the paths
- drivers/dummy-ups.c: clarify that "upsfd" is not really used in file-based dummy-ups; check for invalid FD for good measure (to avoid fstat() on that)
- drivers/dummy-ups.c: reconcile method prototype with implem
- drivers/dummy-ups.c: clarify a nested if/elif/... tree
- drivers/dummy-ups.c: clarify some debug messages
- configure.ac: relax the check warning for gmtime_[rs] and localtime_[rs] As long as we have one, it is okay Closes: #2115
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: handle service dependencies for apc_modbus [#139, #2063]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: update a comment
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: revise service dependencies for apcupsd-ups relay driver
- NEWS.adoc: announce the new apc_modbus driver [#139, #2063]

2.494 2023-10-18 Axel Gembe <axel@gembe.net>

- tools/nut-usbinfo.pl: nut_usbinfo.pl: Lowercase the USB ids before inserting If we don't normalize the case before inserting VID/PID/Driver into `$vendor` we can have duplicate entries.

2.495 2023-10-17 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/libusb1.c: nut_libusb_open(): do not keep Bus/Device/BusPort pointers to random malloc() block if we did not get a number to print there from libusb Avoid (un-)pretty prints like: 0.031364 [D2] - Bus: 006 0.031366 [D2] - Bus Port: ▒UV▒▒U 0.031368 [D2] - Device: 001

2.496 2023-10-16 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c: clients/upsmon.{c,h}: refactor restoring pollfreq (from alert to normal) [#2108]
- clients/upsmon.c, clients/upsmon.h: clients/upsmon.{c,h}: untie OFF/BYPASS states from ONLINE/ONBATT and linestate attr [#2108]
- data/cmdvartab: define descriptions for recently added commands and variables [#2112]
- m4/ax_run_or_link_ifelse.m4: revise to only impose gcc/clang warning option requirements into compilers that identify as GCC or CLANG [#2096 fallout]
- m4/ax_run_or_link_ifelse.m4: C+\+ does not support -Werror=implicit-function-declaration [#2109, #2096 fallout]
- include/str.h, m4/ax_c_pragmas.m4, tests/Makefile.am: Refactor uses of HAVE_PRINTF_STRING_NULL vs. REQUIRE_NUT_STR for printf("%s", NULL) support [#2109]
- m4/ax_c_pragmas.m4, configure.ac: merge two tests for printf("%s", NULL) [#2109]
- m4/ax_c_pragmas.m4: extend AX_C_PRINTF_STRING_NULL with use of AX_RUN_OR_LINK_IFELSE option to ignore certain warnings [#2109]
- configure.ac: fix logged output of inet_pton() test
- m4/ax_run_or_link_ifelse.m4: extend with options to customize CFLAGS and CXXFLAGS [#2109]
- drivers/usbhid-ups.c, docs/man/usbhid-ups.txt, NEWS.adoc: introduce onlinedischarge_calibration config option [#2104]

2.497 2023-10-15 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: Update NEWS.adoc: clarify wording
- clients/upsmon.c: revise is_ups_critical() with OFF, BYPASS and CAL considerations [#2104]
- clients/upsmon.c: reword a message for critically lost primary UPS
- NEWS.adoc, clients/upsmon.c, clients/upsmon.h, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/nut.dict: clients/upsm et al: introduce OFFDURATION config toggle [#2104]
- drivers/usbhid-ups.c: set CAL status before reporting other possibly critical power states [#2104, #2044, fallout of #2055]

2.498 2023-10-13 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/sms_ser.txt: update some wording
- NEWS.adoc: sms_ser introduced [#2090]

2.499 2023-10-12 Jim Klimov <jimklimov@gmail.com>

- drivers/tripplite_usb.c: avoid varname shadowing
- drivers/sms_ser.c: use explicit void in function prototypes
- NEWS.adoc: tripplite_usb allows `upsid` setting [#2075]
- drivers/tripplite_usb.c: cosmetic fixes (whitespace)

2.500 2023-10-11 sapireli <114778791+sapireli@users.noreply.github.com>

- drivers/tripplite_usb.c: @jimklimov my apologies please dont kill me for closing the pull request just saw your typo fix on the old one implemented it here.
- docs/man/tripplite_usb.txt, docs/nut.dict, drivers/tripplite_usb.c: @jimklimov my apologies i royally screwed up the pull request with a rebase. I just started a new to have a clean slate scnario. also added the NUT_UNUSED_VARIABLE per your recommendation. tripplite_usb.c Added UPS ID (upsid) Support: The code now includes support for matching and uniquely identifying UPS devices using the UPS ID (upsid). The upsid configuration option has been added, which accepts a regular expression to match the UPS ID string. This was done by adding a new function called match_by_unitid, that reads the upsid from the config file, then reads the upsid from the device, and checks if they match. This function is now passed to the comm_driver matcher on first connect and reconnects. Added the upsid to the upsdrv_makevartable function so it is read and stored from the config file. tripplite_usb.txt Updated Documentation: The driver documentation was updated to reflect the new functionality. The "EXTRA ARGUMENTS" section now includes information about the upsid configuration option, and how to set it. thank you to @jimklimov for pointing me in the right direction and hand holding.

2.501 2023-10-11 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: enable @Library(*jenkins-dynamatrix*@) notation for custom-built plugin on NUT CI farm

2.502 2023-10-10 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsclient.c, server/netssl.c, m4/ax_c_pragmas.m4: hush -Wcast-function-type-strict due to void* vs. practical pointers with NSS method pointers [#2084]
- tests/generic_gpio_utest.c: cosmetic fixes
- tests/generic_gpio_utest.c: avoid "error: variable might be clobbered by longjmp or vfork" [#2092]
- data/driver.list.in: add CP1350PFCLCD
- tests/Makefile.am: refer to nutlogtest$(EXEEXT) for clarity in dependencies

2.503 2023-10-10 Clappier, Eric <EricClappier@eaton.com>

- drivers/compaq-mib.c: Fix issues in compaq mib

2.504 2023-10-09 Jim Klimov <jimklimov+nut@gmail.com>

- tests/nutlogtest.c: revise include statements

2.505 2023-10-08 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict for PR #2090

2.506 2023-10-08 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: follow TOCTOU analysis suggestions about file permissions check and enforcement
- Jenkinsfile-dynamatrix: hush down groovy debug verbosity, use BRANCH_NAME patterns as the default toggle to be loud and slow

2.507 2023-10-08 Alex W Baulé <alexwbaule@gmail.com>

- docs/man/Makefile.am, docs/man/sms_ser.txt: Add man file and update Makefile.am

2.508 2023-10-07 Jim Klimov <jimklimov+nut@gmail.com>

- tests/generic_gpio_utest.c: avoid NULL deref in printf() on some platforms
- Jenkinsfile-dynamatrix: warn about lack of dynacfgPipeline.configureEnvvars when we "Investigate envvars"
- drivers/sms_ser.h: drivers/sms_ser.c: fix use of methods without a prototype - expose in header
- drivers/sms_ser.c: Revert "drivers/sms_ser.c: fix use of methods without a prototype - make them static" This reverts commit 8de11079a80754af38ad67524009003028a6912e to try a different approach.
- drivers/sms_ser.c: fix use of methods without a prototype - make them static
- drivers/sms_ser.c: fix mixing of "unsigned int" and "long" delays
- drivers/sms_ser.c: fix printf(ssize_t)
- drivers/Makefile.am: "dist" the new sms_ser.h header

2.509 2023-10-06 Jim Klimov <jimklimov@gmail.com>

- NEWS.adoc: optiups fixes [#2089]

2.510 2023-10-06 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: enable tracing for fightwarn branches
- tests/generic_gpio_utest.c: more fscanf() width warnings

2.511 2023-10-05 moonbuggy <3319867+moonbuggy@users.noreply.github.com>

- drivers/optiups.c: use str_to_short() instead of atoi()
- drivers/optiups.c: use short instead of long/float
- data/driver.list.in: updated driver.list.in

2.512 2023-10-05 Jim Klimov <jimklimov@gmail.com>

- drivers/optiups.c: Shuffle lines to keep declarations before operations

2.513 2023-10-05 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: bail out of spellcheck of empty SPELLCHECK_SRC_ONE filenames Sometimes we get this: Makefile:1216: update target *asciidoc-vars.conf* due to: asciidoc-vars.conf-spellchecked rm -f "asciidoc-vars.conf" |\| true ; \ echo " ASPELL Spell checking on ./"; \ ... touch "asciidoc-vars.conf" ASPELL Spell checking on ./ sed: read error on stdin: Is a directory Only seen for "asciidoc-vars.conf" so far: :; git checkout -f ; touch docs/asciidoc-vars.conf ; make spellcheck ; clear ; make dist -j 20 --trace V=1
- docs/man/Makefile.am: fix EXTRA_DIST of driver man page sources even if the build was configured for just some subset of drivers [#2081]
- drivers/apcupsd-ups.c: use detected availability of struct pollfd to define or not the fallback
- configure.ac: detect availability of struct pollfd
- m4/ax_run_or_link_ifelse.m4: make more effort to detect undefined-ness of methods
- include/wincompat.h: comment correct portable arg type for inet_ntop()

2.514 2023-10-04 moonbuggy <3319867+moonbuggy@users.noreply.github.com>

- drivers/optiups.c: correct voltages for Opti-UPS 230V AC models; correct battery capacity for 24V models

2.515 2023-10-04 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: upsnotify(): make first/only notification faults visible They can be important for troubleshooting, e.g. services that rely on sd_notify() but never get the READY message would loop in restarts.
- clients/Makefile.am: refactor definitions of LDADD_FULL and LDADD_CLIENT for easier reuse upsmon is a daemon with systemd notify among other things, and uses the full libcommon upssched should suffice with the client version
- docs/configure.txt, docs/nut.dict: docs/configure.txt: document --libexecdir
- scripts/systemd/nutshutdown.in: also log critical progress messages to /dev/console if available (and not-quiet mode)

2.516 2023-10-04 Axel Gembe <axel@gembe.net>

- configure.ac: Fix out of source tree builds The code to detect the available drivers does so by parsing `Makefile.am` but it does not do so relative to "$srcdir" so trying to do a configure outside of the source directory will fail.

2.517 2023-10-04 Alex W Baulé <alexwbaule@gmail.com>

- docs/sms-brazil-protocol.txt, drivers/Makefile.am, drivers/sms_ser.c, drivers/sms_ser.h: add support to SMS 1phase brazil from #1987 Tested on Nobreak SMS PREMIUM 1500 VA (with WiFi) and M3 Senoidal.

2.518 2023-10-03 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/apcupsd-ups.c: port bits of poll.h to have this buildable on older WIN32
- common/wincompat.c, configure.ac, include/wincompat.h, tools/nut-scanner/scan_xml_http.c: Add a fallback inet_ntop() implementation Needed for tools/nut-scanner/scan_xml_http.c on MinGW cross-builds
- drivers/clone.c: fix casting warnings
- drivers/upsdrvquery.c: fix casting warnings
- drivers/main.c: fix cmdret=upsdrvquery_oneshot() as a generally ssize_t value
- drivers/main.c: fix indentation
- drivers/main.c: fix portability of chown() used as chgrp() Initial implementation passed -1 as uid to have it not changed. Not all OSes support that behavior.
- drivers/dummy-ups.c: fix casting warnings
- clients/upssched.c: fix casting warnings
- common/common.c: fix casting warnings
- tests/generic_gpio_utest.c: fix warnings about formatting strings
- docs/nut.dict: update for nut-website additions

2.519 2023-10-02 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: default a MAKE=make envvar if somehow missing (strange bug for autotools build scenarios)
- Jenkinsfile-dynamatrix: default a MAKE=make envvar if somehow missing (strange bug for autotools build scenarios)
- docs/Makefile.am: avoid defining "check-local" target twice to include optional "spellcheck", not all tools like that [#2081]
- scripts/systemd/nutshutdown.in: simplify with sourcing of the optional config file
- scripts/systemd/nutshutdown.in: make it useful for NUT clients (which shut down and may want to avoid power races)
- tests/generic_gpio_liblocal.c, tests/generic_gpio_utest.c: tests/generic_gpio_*.c: fix clang warnings [#823]
- drivers/snmp-ups.c: fix the dangling pointer warning some compilers have found [#823]

2.520 2023-10-01 Jim Klimov <jimklimov+nut@gmail.com>

- conf/nut.conf.sample, docs/man/nut.conf.txt, docs/nut.dict, scripts/systemd/nutshutdown.in: Introduce POWEROFF_QUIET for nutshutdown et al
- docs/man/nut.conf.txt: document ALLOW_NO_DEVICE setting
- conf/nut.conf.sample: document other options currently highlighted in the man page
- conf/nut.conf.sample: fixup! conf/nut.conf.sample: update existing comments
- conf/nut.conf.sample: refer to `man nut.conf` for more info
- conf/nut.conf.sample: update existing comments
- scripts/systemd/nutshutdown.in: update indentations and comments
- scripts/systemd/nutshutdown.in: fixup! scripts/systemd/nutshutdown.in: add copyright header, update practical comments
- configure.ac, scripts/systemd/nut-driver-enumerator.path.in, scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver.target, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in, scripts/systemd/nut.target: scripts/systemd/*.in: add short copyright header to unit files
- scripts/systemd/nutshutdown.in: add copyright header, update practical comments

2.521 2023-09-30 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: nut_prepare_search_paths(): use realpath() where available, and so xstrdup()/free() in general [#317]
- NEWS.adoc, common/common.c, include/common.h, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c: common, nut-scanner: Introduce nut_prepare_search_paths() to pre-filter the usable set [#317]
- tools/nut-scanner/nutscan-ip.c: WIN32 builds require WSAStartup() before getaddrinfo() et al
- tools/nut-scanner/nutscan-ip.c: trace getaddrinfo() failures
- tests/NIT/nit.sh: consider an empty output of nut-scanner an error (to retry from one mode to another)
- tools/nut-scanner/nut-scanner.c: typo (lacking newline) in an usage message
- NEWS.adoc, common/common.c: common/common.c: vupslogx(): dynamically adjust the needed buffer size for longer printouts, e.g. PATH in upsdebugx_report_search_paths() [#317]
- common/common.c: vupslog(): stash errno value at start of method, so later calls do not corrupt what we want to report; fix declarations-on-top for windows builds
- common/common.c: fix get_libname_in_pathset() increment of checked-directory counter Be sure to bump the number, not the pointer!
- common/common.c: fix get_libname_in_pathset() mutilating the input pathset string It was unexpected to see just one entry in getenv("PATH") after the first loop...
- configure.ac, common/common.c: search_paths[]: introduce MULTIARCH_TARGET_ALIAS as/if suggested by compiler [#317]
- common/common.c: vupslog(): print timestamp\+buf in one operation
- common/common.c: extend upsdebugx_report_search_paths() to follow actual search order of get_libname() with more locations possibly checked [#317]
- common/common.c: comment about peculiarities of search_paths[] contents [#317]
- NEWS.adoc, UPGRADING.adoc, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c: nut-scanner: use upsdebugx_report_search_paths() [#317] Also bumps public API version of libnutscan due to added symbol.
- common/common.c, include/common.h: common.{c,h}: introduce upsdebugx_report_search_paths() [#317]
- data/driver.list.in: leave a note about Riello Netman "not-plus" SNMP card naming [#1878]

2.522 2023-09-30 Axel Gembe <axel@gembe.net>

- AUTHORS, data/driver.list.in, docs/man/Makefile.am, docs/man/apc_modbus.txt, docs/nut.dict, drivers/Makefile.am, drivers/apc_modbus.c, m4/nut_check_libmodbus.m4, tools/nut-usbinfo.pl: apc_modbus: Support for APC Modbus protocol This adds a new driver called `apc_modbus` to support the APC Modbus protocol over serial ports, TCP connections and USB ports. For USB support to work it needs a [patched `libmodbus` that has support for the APC USB Modbus encapsulation](https://github.com/EchterAgo/libmodbus/commits/rtu_usb). If a `libmodbus` without USB support is detected the driver will build with just the serial and TCP/IP support.

2.523 2023-09-21 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut-names.txt: clarify that the tables of short SPEC names is just a component in longer phase-aware naming scheme
- docs/nut-names.txt: add a section to define and discuss Structured naming
- ci_build.sh: only impose GNU make as default if spellchecking via script

2.524 2023-09-20 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: update dictionary for nut-website changes

2.525 2023-09-20 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: define MAKE=... fallback default in one place
- ci_build.sh: --disable-spellcheck in many default BUILD_TYPE=... scenarios geared towards binary builds and checks (do not waste time on aspell in matrix checking loops) [#2065]
- ci_build.sh: make sure our MAKE envvar is defined and not empty - in all cases [jenkins-dynamatrix#24]

2.526 2023-09-19 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usb-common.c: make sure to have settings like HAVE_LIBREGEX visible when processing other headers [#1369]
- drivers/usbhid-ups.c: fix visibility of vars used only in builds with HAVE_LIBREGEX [#1369]
- docs/developers.txt, docs/nut.dict: clarify that NUT_UNUSED_VARIABLE goes after variable declarations, add chapter headings, revise some text [#2056]
- docs/Makefile.am: fix ChangeLog.adoc preparation for OpenBSD make [#1953]
- conf/Makefile.am, data/Makefile.am, docs/Makefile.am, docs/man/Makefile.am: */Makefile.am: spellcheck targets: differentiate SPELLCHECK_SRCDIR vs. SPELLCHECK_BUILDDIR [#2067]
- docs/Makefile.am: EXTRA_DIST asciidoc-vars.conf [#1953]
- Makefile.am: Introduce LICENSE-DCO into the source codebase [#1994]
- configure.ac: configure: fix handling of --enable-cppcheck
- NEWS.adoc, UPGRADING.adoc, configure.ac, docs/Makefile.am, docs/configure.txt: configure.ac: introduce --enable-spellcheck to have it as part of "make check" where available [#2067]
- configure.ac, m4/nut_check_asciidoc.m4, m4/nut_check_aspell.m4: externalize detection of aspell tool and ability
- m4/nut_check_asciidoc.m4: consider a separate ASPELL_FILTER_SHARE_PATH [#2065]
- appveyor.yml: enable spellchecks [#2065]
- m4/nut_check_asciidoc.m4: if there is no "tex.amf", do not yield a useless ASPELL_FILTER_TEX_PATH (e.g. ".") [#2065]
- docs/man/nut_usb_addvars.txt, docs/nut.dict: docs/man/nut_usb_addvars.txt: clarify where "busport" can be verified in the OS [#2043]
- m4/nut_check_asciidoc.m4, docs/Makefile.am: cater to different ways of packaging aspell with ASPELL_FILTER_TEX_PATH [#2065]

2.527 2023-09-18 Jim Klimov <jimklimov@gmail.com>

- drivers/Makefile.am: Update Makefile.am Steamline use of LIBREGEX_CFLAGS via AM_CFLAGS, same as others.
- tools/nut-scanner/nutscan-display.c: fix report for "same serial in different devices"
- tools/nut-scanner/nutscan-display.c: do not drop out after the first (non-NULL) report, let all complaints be known
- tools/nut-scanner/nutscan-display.c: report trailing blanks in serial numbers
- configure.ac: hush down some more clang "-Wextra" or "-Weverything" warnings that we can not really address [#2055, #823]
- docs/nut.dict: Update with words missing in some platform default dictionaries
- NEWS.adoc, drivers/ever-hid.c: drivers/ever-hid.c: fix "powerfactor" without a namespace

2.528 2023-09-18 Jim Klimov <jimklimov+nut@gmail.com>

- .gitignore: GitIgnore leftover conf1234.file patterns
- m4/nut_check_asciidoc.m4, docs/Makefile.am: detect and use ASPELL_FILTER_PATH where available Thanks to https://github.com/msys2/MSYS2-packages/issues/2088 for hints
- drivers/nutdrv_qx.c, docs/man/nutdrv_qx.txt: list available "protocol" setting values in command-line usage request (--help) [#1369]
- drivers/usbhid-ups.c, docs/man/usbhid-ups.txt: list available "subdriver" setting values in command-line usage request (--help) [#1369]
- docs/man/nutdrv_qx.txt, docs/man/usbhid-ups.txt: update man page notes about subdriver settings [#1369]
- m4/nut_check_libregex.m4: avoid using cached reply for the absent library name, when checking for -lregex
- ci_build.sh: introduce initial clean-up shortcut (used if recipes change)
- .gitattributes: make sure docs/nut.dict is always LF (no CR)

2.529 2023-09-17 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usbhid-ups.c: match_function_subdriver_name(): require (or recommend) vendorid/productid [#1369]
- drivers/usbhid-ups.c: match_function_subdriver_name(): report the name of found USB HID subdriver [#1369]
- drivers/usbhid-ups.c: match_function_subdriver_name(): automate use of regex "somename.*" [#1369]
- NEWS.adoc, docs/man/usbhid-ups.txt, drivers/usbhid-ups.c: drivers/usbhid-ups.c: implement match_function_subdriver_name() for "subdriver" matching option; update docs about it [#1369]
- clients/Makefile.am: build clients against libcommonclient.la (fewer link and run-time deps pulled), not libcommon.la
- common/Makefile.am, common/common.c, drivers/usb-common.c, include/common.h: common.{c,h}: move here general REGEX helper methods from drivers/usb-common.{c,h} [#1369]
- configure.ac, drivers/Makefile.am, m4/nut_check_libregex.m4, m4/nut_check_libusb.m4: m4/nut_check_libregex.m4: move detection from m4/nut_check_libusb.m4; adapt configure.ac and */Makefile.am accordingly
- NEWS.adoc, clients/cgilib.c, clients/upsclient.c, clients/upslog.c, clients/upsmon.c, clients/upsset.c, common/common.c, drivers/adelsystem_cbi.c, drivers/al175.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bestuferrups.c, drivers/blazer_usb.c, drivers/dstate.c, drivers/eaton-pdu-marlin-mib.c, drivers/ever-hid.c, drivers/generic_modbus.c, drivers/hidparser.c, drivers/hpe-pdu-mib.c, drivers/libusb0.c, drivers/mge-hid.c, drivers/mge-utalk.c, drivers/mge-xml.c, drivers/netxml-ups.c, drivers/nut-libfreeipmi.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_ablerex.c, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_mastergu drivers/nutdrv_siemens_sitop.c, drivers/phoenixcontact_modbus.c, drivers/pijuice.c, drivers/richcomm_usb.c, drivers/riello.c, drivers/riello_ser.c, drivers/riello_usb.c, drivers/snmp-ups.c, drivers/socomec_jbus.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upsdrvctl.c, drivers/upsdrvquery.c, server/netssl.c, server/upsd.c, tests/getvaluetest.c, tests/nuttimetest.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Fightwarn: numerous complaints from clang-15 [#823] Surprised that so many of these were not found sooner. Almost all fall into a few simple categories: * method(void) declared without a "void" * declarations after code **NUT_UNUSED_VARIABLE() is code** scoping in switch() cases * a few smartly detected unused variables ⇒ added reasonable use-cases (logging or better)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: detect USB drivers by "busport" among config options [#2043]
- scripts/augeas/nutupsmonconf.aug.in: update for new notification types [#2044 and before]

2.530 2023-09-16 Jim Klimov <jimklimov+nut@gmail.com>

- conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/nut.dict: upsmon(.conf) docs and samples
  - update for new notification types [#2044 and before]
- NEWS.adoc: upsmon now handles OFF and BYPASS states [#2044]
- clients/upsmon.c, clients/upsmon.h: clients/upsmon.{c,h}: enhance with support of OFF and BYPASS state reporting (entry/exit) [#2044]
- clients/upsmon.c, clients/upsmon.h: upsmon: add support for administrative "OFF" state [#2044] Based on patch by "Bomorav" posted at https://github.com/networkupstools/nut/issues/2044#issuecomment-1720752199
- drivers/usbhid-ups.c: initialize BusPort where used [#2043]
- drivers/libshut.h: update with formal support of "busport" (no-op for serial mode) [#2043]
- tools/nut-scanner/scan_usb.c: add support for "busport" discovery where possible [#2043]
- drivers/blazer_usb.c, drivers/libshut.c, drivers/libusb0.c, drivers/libusb1.c, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.c, drivers/usb-common.h, drivers/usbhid-ups.c: USB driver: adjust to WITH_USB_BUSPORT normally being always defined, just not always active [#2043]
- m4/nut_check_libusb.m4: detect if we can support "busport" USB matching value [#2043]
- docs/man/nut_usb_addvars.txt: fix markup for a NOTE about "device" value
- docs/man/nut_usb_addvars.txt: add "busport" info [#2043]
- docs/man/nut_usb_addvars.txt: fix typo about Linux path to usb device info
- NEWS.adoc, docs/nut.dict: NEWS.adoc: document the addition of "busport" config option [#2043]
- drivers/libusb0.c: use logging for bus port consistent with other USB-related libs [#2043]
- drivers/libshut.c: avoid potential small memory leak
- drivers/libshut.c: update with formal support of "busport" (no-op for serial mode) [#2043]
- drivers/usb-common.c: constrain regex_matcher_data_t array size to USBMATCHER_REGEXP_ARRAY_LIMIT too (not a hardcoded number like before) [#2043]
- drivers/blazer_usb.c, drivers/libusb0.c, drivers/libusb1.c, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usbhid-ups.c: USB drivers: bump versions due to new "busport" config option support; free the variables in order of definition (ease maintenance) [#2043]
- drivers/blazer_usb.c, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/usbhid-ups.c: USB drivers: warn if "busport" is configured but will be ignored by current build [#2043]
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: allow configuring "busport" in ups.conf always, just note it may be ignored in certain builds [#2043]
- drivers/libusb1.c: allow configuring "busport" always, just note it may be ignored in certain builds [#2043]
- drivers/libusb0.c: log a notice that BusPort==0 for libusb0 [#2043]
- drivers/blazer_usb.c, drivers/libusb1.c, drivers/nutdrv_qx.c: Revise "ifdef" indentations
- drivers/blazer_usb.c, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.c, drivers/usb-common.h, drivers/usbhid-ups.c: Rename REGEXP_ARRAY_LIMIT⇒USBMATCHER_REGEXP_ARRAY_LIMIT [#2043]
- common/common.c: extend xstrdup() definition to return NULL if input was NULL (and log it) [#2052]
- common/common.c: Revert "common/common.c: extend xbasename(), xstrdup() and xrealloc() definition to return NULL if input was NULL (and log it) [#2052]" This reverts commit 05610d1564c9ea75d7e10780e2c0f8973e5795ab. Seems to cause segfaults on its own, maybe something relied on older behavior (non-NULLs returned in case of bad inputs?) To investigate separately later...

2.531 2023-09-15 fa <wavebvg@gmail.com>

- drivers/blazer_usb.c, drivers/libusb0.c, drivers/libusb1.c, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.c, drivers/usb-common.h, drivers/usbhid-ups.c: Update blazer_usb.c, libusb0.c, and 7 more files...

2.532 2023-09-14 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsclient.c: upscli_splitname(): add explicit checks for empty upsname and/or hostname[:port] parts, to report problems as such [#2052]
- NEWS.adoc: update for issue #2052 fix
- clients/upsclient.c: fix strdup()⇒xstrdup() to not segfault with bad inputs [#2052]
- common/common.c: extend xbasename(), xstrdup() and xrealloc() definition to return NULL if input was NULL (and log it) [#2052]
- docs/developers.txt: update links for SVN to Git migrations Thanks for Tomas Laurinavicius <tomas@saas.group> for the suggestion.

2.533 2023-09-13 Jim Klimov <jimklimov@gmail.com>

- UPGRADING.adoc: Update UPGRADING.adoc

2.534 2023-09-13 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am, docs/Makefile.am: ensure clean-up of (now-)generated README file
- UPGRADING.adoc: highlight changes to documentation source and delivered filenames [#1953]
- README.adoc: Update NUT documentation sources with current docs/asciidoc-vars.conf: 7c5e90132 (2023-09-13)
- docs/asciidoc-vars.conf: fence against re-definitions of website-url and (top_)(src\|build)dir attributes
- docs/asciidoc-vars.conf: fence against duplicate includes
- README.adoc: Update NUT documentation sources with current docs/asciidoc-vars.conf: 36f4f0334 (2023-09-13)
- docs/asciidoc-vars.conf: update maintenance and reasoning comments
- README.adoc: fix xref values for user-manual generation
- .gitignore: GitIgnore /.vscode
- configure.ac: revert AM_INIT_AUTOMAKE foreign option (may disable "portability checks" per GNU docs)
- README.adoc, docs/Makefile.am, docs/asciidoc-vars.conf, docs/nut.dict: docs/nut.dict: update for new docs/asciidoc-vars.conf contents
- README.adoc: Update NUT documentation sources with current docs/asciidoc-vars.conf: 234b70422 (2023-09-13)
- README.adoc, docs/asciidoc-vars.conf: docs/asciidoc-vars.conf: finish the file with newline
- docs/asciidoc-vars.conf: refer to make maintainer-asciidocs
- README.adoc: mangle with "make maintainer-asciidocs"
- .gitignore, Makefile.am, docs/.gitignore: Makefile.am: introduce "make maintainer-asciidocs" recipe
- docs/asciidoc-vars.conf: prepare for GH_MARKUP_1095 workarounds
- README.adoc: prepare for GH_MARKUP_1095 workarounds

- docs/asciidoc-vars.conf: Revert "docs/asciidoc-vars.conf: define our attributes in a different syntactic fashion" This reverts commit 300942904bef0921bba382103c9c4b96cc1c5f04.
- docs/asciidoc-vars.conf: Revert "docs/asciidoc-vars.conf: add a debug NOTE" This reverts commit 07a39b950b40857c8d8e5c806551c
- README.adoc: refer to top_srcdir first, it WILL be defined after the include
- docs/asciidoc-vars.conf: add a debug NOTE
- docs/asciidoc-vars.conf: define our attributes in a different syntactic fashion
- README.adoc: avoid a blank line between document header and include::docs/asciidoc-vars.conf
- docs/asciidoc-vars.conf: reshuffle and make it a single block of markup as far as asciidoc is concerned
- README.adoc: move renderer-dependent attribute definitions into includable docs/asciidoc-vars.conf
- docs/asciidoc-vars.conf: add an includable asciidoc file with renderer-dependent attribute definitions
- docs/ChangeLog.txt, docs/Makefile.am, docs/man/Makefile.am, docs/man/index.txt, docs/man/nutupsdrv.txt, docs/man/upsd.txt, docs/release-notes.txt, docs/user-manual.txt: docs: in asciidoc markup (and relevant Makefile rules) require that the trailing slash is part of `(top_)srcdir` and `(top_)builddir` attributes, so empty values are non-toxic
- Makefile.am: separate EXTRA_DIST for *.adoc and other filename patterns [#1953]
- docs/history.txt: add "Backwards and Forwards Compatibility" chapter evicted from README.adoc

2.535 2023-09-12 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: add (Eaton) IPM
- docs/Makefile.am: adjust for BSD make implementation
- .gitignore: GitIgnore **.adoc**.tmp leftovers, if present [#1953] Probably meaning a broken build, though...
- .gitignore: GitIgnore old NEWS file by name [#1953]
- NEWS.adoc, UPGRADING.adoc, docs/Makefile.am, docs/release-notes.txt: docs/release-notes.txt: include UPGRADING as a chapter - it is also release-related info [#1953]

2.536 2023-09-11 Jim Klimov <jimklimov@gmail.com>

- NEWS.adoc: change asciidoc link tag
- docs/nut.dict: Update nut.dict

2.537 2023-09-11 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: revise asciidoc markup for old-release entries [#1953]
- NEWS.adoc: highlight documentation/recipe changes per #1953
- docs/Makefile.am: specify "builddir" path to generated docinfo.xml, and just ship a copy [follow-up from #2046 and probably before]
- docs/Makefile.am: do not refer to generatable "../*.adoc-parsed" files via hardcoded ".."
- .gitignore, NEWS.adoc, docs/ChangeLog.txt, docs/Makefile.am, docs/documentation.txt, docs/release-notes.txt, docs/user-manual.txt: Introduce buildable (HTML/PDF) release-notes and ChangeLog documents [#1953]
- .gitignore, Makefile.am, NEWS.adoc, docs/Makefile.am, docs/user-manual.txt: Use *.adoc-parsed extension for post-processed asciidoc files used in rendering to HTML/PDF artifacts [#1953]

- Makefile.am, NEWS ⇒ NEWS.adoc, autogen.sh, docs/Makefile.am: Convert NEWS ⇒ NEWS.adoc (basic section structure) and render it as release-notes (HTML, PDF) [#1953]
- docs/Makefile.am: implement DOCBUILD_FILTER_GITHUB_LINKS [#1953]
- .editorconfig, .gitignore, INSTALL.nut ⇒ INSTALL.nut.adoc, Makefile.am, TODO ⇒ TODO.adoc, UPGRADING ⇒ UPGRADING.adoc, docs/Makefile.am, docs/developer-guide.txt, docs/nut.dict, docs/security.txt, docs/user-manual.txt, lib/.gitignore, lib/Makefile.am, lib/{README ⇒ README.adoc}, scripts/Makefile.am, scripts/augeas/.gitignore, scripts/augeas/Makefile.am, scripts/augeas/{README ⇒ README.adoc}, scripts/ufw/.gitignore, scripts/ufw/Makefile.am, scripts/ufw/{README ⇒ README.adoc}, tools/nut-scanner/.gitignore, tools/nut-scanner/Makefile.am, tools/nut-scanner/{README ⇒ README.adoc}: Rename asciidoc-ready documentation sources to *.adoc [#1953 et al] Follows up from #226, #669 and facilitates #1953
- UPGRADING: suggest --enable-option-checking=fatal for packagers
- docs/docinfo.xml.in: populate remaining "refremark" fields up to (prospective) NUT v2.8.1 release [#2046]
- docs/docinfo.xml.in, docs/docinfo.xml.sh: Revert "docs/docinfo.xml.sh: reference the NEWS file (GitHub URL for interactive PDFs) [#2046]" This reverts commit fa8721d98ee3031daed234d50643074e65a9c3a1 and changes for docinfo.xml.in applying it. Referencing the NEWS files for each release proved problematic: the revremark tag does not expect nested tags (like <a href> or even <p>).
- docs/docinfo.xml.in: populate "refremark" fields [#2046]
- docs/docinfo.xml.sh: reference the NEWS file (GitHub URL for interactive PDFs) [#2046]

2.538 2023-09-10 Jim Klimov <jimklimov+nut@gmail.com>

- docs/docinfo.xml.in: update to list releases 2.6.1-2.8.0 missed before [#2046] First use of docinfo.xml.sh - looks decent
- docs/.gitignore, docs/Makefile.am, docs/docinfo.xml.in, docs/docinfo.xml.sh, docs/maintainer-guide.txt: Introduce docs/docinfo.xml.s to help maintain docinfo.xml.in (currently limited to ensuring presence of existing tags) [#2046]
- tools/gitlog2changelog.py.in: bump ©
- configure.ac, docs/docinfo.xml.in: use current NUT_SOURCE_GITREV for doc revision history if available
- configure.ac: update comments
- docs/docinfo.xml.in: update "current version (snapshot)" comment
- docs/developer-guide.txt: update author list
- docs/maintainer-guide.txt: update release procedure
- docs/developers.txt, docs/nut.dict: docs/developers.txt: fix section-level warning, and add AppVeyor CI and CircleCI sections
- docs/new-drivers.txt: cosmetix fix (indent)
- docs/hid-subdrivers.txt, docs/nut.dict: docs/hid-subdrivers.txt: add a "screenshot" of rexx usage

2.539 2023-09-07 Jim Klimov <jim@jimklimov.com>

- drivers/cyberpower-mib.c: Update cyberpower-mib.c Bump version after #2041

2.540 2023-09-06 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/cyberpower-mib.c: restore upsAdvanceControlUpsSleep as "shutdown.return" [follow-up from #2029]

2.541 2023-09-05 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: comment why we do not solve VAR_SENSITIVE for override/default right now [#1891]
- NEWS: formatting fix
- drivers/snmp-ups.c, NEWS: clearer messages for skipped mib2nut mappings New message example: 0.001836 [D2] load_mib2nut: skip the "tripplite" entry from the mapping table which is not "ietf" (and which in turn is not "auto")
- drivers/snmp-ups.c: add a TODO for multi-MIB approach [#2036]
- drivers/blazer.c: fix typo in comment

2.542 2023-09-04 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx.c: dial back down the batt.volt.high guesstimation to 130/120 of the nominal (back from experimental 150/120) [#1652]

2.543 2023-09-02 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/blazer_ser.c, drivers/blazer_usb.c, drivers/nutdrv_qx.c: drivers/blazer_{ser,usb}.c, drivers/nutdrv_qx.c: re-bump driver versions since master versions moved while the PR #1652 was queued

2.544 2023-09-01 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: Add APC SmartUPS 750 (SMT750I) reports [#1261]

2.545 2023-08-31 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: Add APC SmartUPS X 750 (USB) reports [#1261]
- data/driver.list.in: Add APC SmartUPS SUA1000 (SNMP) reports [#1740]
- data/driver.list.in: Add UltraMax 1000SC reports [nut#1634]
- data/driver.list.in: Update PowerCool 1200 report nuances [#1539]
- data/driver.list.in: Add UPSonic IRT-3K 2U [#441]
- data/driver.list.in: Add Ippon Smart Power Pro II 1200/1600/... series [#701]

2.546 2023-08-30 Ross Williams <ross@ross-williams.net>

- drivers/cyberpower-mib.c: Revert "cyberpower-mib: fix instant command declarations" This reverts commit 8bcf255b624e6ba6c89a2a Cyberpower `snmp_info_t` got updated to conform with pre 5d97d07 instant commands layout, but got merged after it. Reverting 8bcf255 so that command values are correctly in `su_info_t->dfl`.

2.547 2023-08-30 Jim Klimov <jimklimov@gmail.com>

- NEWS: fix for cyberpower-mib instcmd definitions [#2029]

2.548 2023-08-30 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: Update Riello SNMP HCL names (no vendor in model name usually)
- data/driver.list.in: Update Riello SER/USB/SNMP HCL per vendor report [#1878]
- data/driver.list.in: Add FSP Fortron UPS Champ 1000VA, 2000VA and 3000VA Towers [nut-ddl#22, nut#1691, nut#1741, nut#1872] Closes: #1691 Closes: #1741 Closes: #1872
- data/driver.list.in: Add APC Smart-UPS 3000 [nut-ddl#24]

2.549 2023-08-25 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/libshut.c: libshut_open(): calculate desc→wDescriptorLength differently (closer to what libusbX.c do and NUT v2.7.4 did); bump driver version [#2022]
- drivers/libshut.c: libshut_open(): populate curDevice→Device to be on par with USB drivers (remember a copy of arg_device_path here)
- drivers/libshut.c: libshut_open(): be sure that arg_device_path is not null
- NEWS: fix for MGE SHUT broken by changes in 2.8.0 [#2022]
- drivers/usbhid-ups.c: upsdrv_initups(): only report "Initializing an USB-connected UPS with library..." when not in SHUT_MODE [#2022]
- drivers/libhid.c: HIDGetEvents(): be sure to not overflow sizeof(buf)
- drivers/hidparser.h, drivers/libhid.c, drivers/libhid.h, drivers/mge-hid.c, drivers/usbhid-ups.c: Reword "#if(n)def SHUT_MODE" clauses, comment their "#else/#endif" parts [#2022]
- drivers/hidparser.c, drivers/mge-hid.c, drivers/usbhid-ups.c: A few cosmetic fixes (typos, indents...)

2.550 2023-08-17 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nutdrv_qx-subdrivers.txt, docs/nut.dict: fix some typos and update the dictionary [#2005]

2.551 2023-08-14 Jim Klimov <jimklimov+nut@gmail.com>

- server/upsd.c: setuptcp(): when informing about possible IPv6/IPv4 "ANY" address listener conflict, consult actual state in "canhaveAnyV6" and not the possibility via "serverAnyV6!=null" [#2013]
- server/upsd.c: setuptcp(): update big comment about "LISTEN *" nuances to match current logic; drop GitHub reference [#2013 review for #2012]
- configure.ac: explicitly check for inet_ntop() support along with both AF_INET and AF_INET6 (we have IPv4 and IPv6 capability everywhere, right?) [#2012]
- NEWS, UPGRADING: finish full sentences with a period [#2012]
- server/upsd.c: setuptcp(): drop the trickery to get IPv4 first just to see if we can, then release it, then get IPv6 and then IPv4 again [#2013 review for #2012]
- server/upsd.c: setuptcp(): drop commented-away optional sleep() [#2012]
- server/upsd.c: simplify `LISTEN *` handling to not fiddle with optionality of `require_IPV6_V6ONLY` for one use-case [#2013 review, #2012]

2.552 2023-08-13 Tomasz Fortuna <bla@thera.be>

- NEWS, docs/nut.dict, docs/nutdrv_qx-subdrivers.txt: drivers/nutdrv_qx.c: Add documentation file. Document various possible transmissions. Might be required to construct testcases one day - adding new UPS shouldn't cause regressions in older ones.

2.553 2023-08-13 Jim Klimov <jimklimov@gmail.com>

- NEWS: cyberpower-mib.c supports more data points now [#1982]
- drivers/cyberpower-mib.c: bump version for new entries

2.554 2023-08-13 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS, UPGRADING, conf/upsd.conf.sample, docs/config-notes.txt, docs/man/upsd.conf.txt, docs/security.txt, scripts/augeas/nutupsdconf.aug.in: Revise doc changes about LISTEN
- support per PR #2013 discussion Notably: * move from "would" to "will" verbiage; * specify IPv6 listening first, IPv4 next, as it goes in code; * lean towards trying to listen on two sockets separately always (unless the OS refuses to avoid IPv4-mapped IPv6 addressing).

2.555 2023-08-12 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS, drivers/apcsmart-old.c, drivers/apcsmart.c: drivers/apcsmart(-old).c: do not abort on bad caps, skip them like before [#2015] Closes: #2015

2.556 2023-08-08 Tomasz bla Fortuna <bla@thera.be>

- drivers/nutdrv_qx.c: Support a quirk in Vultech V2000 UPS. This UPS seems to use null bytes within status bits. This might mean "unsupported". We will treat them as zeroes.

2.557 2023-08-06 Craig Holyoak <craig@helmsdeep.org>

- drivers/cyberpower-mib.c: Moved additional ups.status to ups.alarm

2.558 2023-08-05 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS, UPGRADING, conf/upsd.conf.sample, docs/config-notes.txt, docs/man/upsd.conf.txt, docs/security.txt, scripts/augeas/nutupsdconf.aug.in, server/upsd.c: server/upsd.c and docs/config examples: handle "LISTEN *" deterministically (for both IPv4 and IPv6 if we can) [#2012]
- server/upsd.c, NEWS, UPGRADING: setuptcp(): when asked to LISTEN on IPv6 addresses, try to disable IPv4-mapping support [#2012]
- server/upsd.c: refactor server_free() with a new stype_free() [#2012]
- server/upsd.c: setuptcp(): warn if we bound to one address for a name and end the loop while there seem to be more resolved addresses for it [#2012]
- server/upsd.c: server_load(): log if defaulting to localhost (IPv4/IPv6) due to lack of LISTEN directive [#2012]
- NEWS: typo fix
- server/upsd.c, NEWS, UPGRADING: listen_add(): firstaddr should remain first [#2012]
- drivers/nutdrv_qx.c: convert to ARMAC_READ_SIZE as a macro

2.559 2023-08-04 Jim Klimov <jimklimov+nut@gmail.com>

- common/state.c: in state_delinfo_olderthan() do upsdebugx(6,...) that we are deleting an entry because it is too old [#2007]
- common/state.c: update comment for st_tree_node_compare_timestamp() [#2007]
- drivers/apcupsd-ups.c: fix use of INVALID_FD_SOCK() macro over complex expression [#2007]
- docs/Makefile.am: spellcheck LICENSE-DCO file [#1995 follow-up]
- NEWS: move apcupsd fixes mis-placed into 2.8.0 notes block [#2007]
- NEWS: announce support for state entry timestamping [#2010]
- tests/.gitignore, tests/Makefile.am, tests/nuttimetest.c: Introduce nuttimetest (sanity-check difftime*() methods, etc.) [#2007, #1777]
- configure.ac: fix broken test for clock_gettime(CLOCK_MONOTONIC,ts) [#1777 follow-up]
- common/common.c: fix build scope for calls to timespec_load() and use of got_monoclock in upsnotify() [#1777 follow-up]
- drivers/nutdrv_qx.c: cast signed/unsigned int comparison

2.560 2023-08-03 Jim Klimov <jimklimov@gmail.com>

- drivers/nutdrv_qx.c: Update drivers/nutdrv_qx.c Fix debug printout

2.561 2023-08-03 Jim Klimov <jimklimov+nut@gmail.com>

- common/state.c: initialize "lastset" in "state_setinfo()" when adding a new value
- NEWS: use dstate_delinfo_olderthan() to clean up obsoleted readings AFTER refreshing data from apcupsd daemon [#2007]
- drivers/apcupsd-ups.c: use dstate_delinfo_olderthan() to clean up obsoleted readings AFTER refreshing data from apcupsd daemon [#2007]
- drivers/dstate.c, drivers/dstate.h: drivers/dstate.{c,h}: introduce dstate_delinfo_olderthan()
- drivers/apcupsd-ups.c: refactor getdata() return code paths [#2007]
- common/state.c, include/state.h: introduce state_delinfo_olderthan()
- common/state.c, include/state.h: introduce st_tree_timespec_t and state_get_timestamp() and st_tree_node_compare_timestamp() to track age of state entries
- common/common.c, include/common.h: introduce difftimespec() for completeness
- common/common.c: clarify "nsec" as "numsec" (not "nanosec") in difftimeval()
- NEWS: fix check for POLL_INTERVAL_MIN [#2007, #797 fallout]
- NEWS: fix markup for "new devices" in 2.7.4
- drivers/apcupsd-ups.c: fix check for POLL_INTERVAL_MIN [#2007, #797 fallout]
- tools/nut-ddl-dump.sh: suggest posting the file to nut-ddl repo
- tools/nut-ddl-dump.sh: update generated markup

2.562 2023-08-02 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-ddl-dump.sh: generate the report with use of DEVICE:COMMENT: and DEVICE:COMMENT-BLOCK:FIXME:(UPSRW\|
  sections (and place them after upsc dump) Related-to: https://github.com/networkupstools/nut-ddl/issues/32
- tools/nut-ddl-dump.sh: update scripting style (quotes, comments, etc)

2.563 2023-07-31 Tomasz Fortuna <bla@thera.be>

- NEWS, data/driver.list.in, drivers/nutdrv_qx.c: drivers/nutdrv_qx.c: improve Armac subdriver Based on a debug output from a newer device (*/PF1) we've improved understanding on how: - those devices encode the length of a chunk of data. - how the end of transmission can be marked / detected. Changed: - Empty buffer before sending command to clear any residual data. - Detect end of message by end of line character \r (0x0d). - Refactor "6" into a READ_SIZE constant. - Limit bytes_available nibble to available READ_SIZE.

2.564 2023-07-31 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS, drivers/cyberpower-mib.c, drivers/cyberpower-mib.h, drivers/snmp-ups.c: drivers/cyberpower-mib.c, NEWS: extend support to devices which report the shorter Vendor OID as their sysOID [#1997] Closes: #1997

2.565 2023-07-30 Jim Klimov <jimklimov+nut@gmail.com>

- docs/features.txt: update notes about networked devices and about Windows builds
- docs/user-manual.txt, docs/features.txt: bump manufacturer count
- docs/nut.dict: nut.dict: bump for nut-website changes
- docs/nut.dict: nut.dict: bump for nut-website changes
- docs/nut.dict: nut.dict: bump for nut-website changes

2.566 2023-07-30 Jim Klimov <jim@jimklimov.com>

- COPYING: Update COPYING about LICENSE-DCO file Follow-up to #1995

2.567 2023-07-18 Jim Klimov <jimklimov+nut@gmail.com>

- .github/pull_request_template.md, docs/developers.txt, docs/nut.dict: docs/developers.txt: add a chapter on DCO (Signed-Off-By) [#1994]
- LICENSE-DCO: Introduce LICENSE-DCO into the source codebase [#1994]

2.568 2023-07-09 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: try to ensure that stageName matches the dsbc contents [jenkins-dynamatrix#15]

2.569 2023-07-07 Craig Holyoak <cholyoak@redlands.qld.edu.au>

- drivers/cyberpower-mib.c: Added more variables from the CyberPower MIB

2.570 2023-07-03 Jim Klimov <jimklimov+nut@gmail.com>

- docs/security.txt: fix ASCIIDOC markup [#1976]
- docs/download.txt: chunked-HTML chapter for "security.txt" moved due to daisychain years ago
- scripts/python/Makefile.am: no need to (re)define Makefile variable MSGFMT - already handled by autotools [#1977]

2.571 2023-07-02 Jim Klimov <jimklimov@gmail.com>

- scripts/python/Makefile.am: refactor gettext translations to grep up source (text) file instead the output
- scripts/python/Makefile.am: refactor gettext translations
- scripts/python/Makefile.am: avoid POT-Creation-Date in gettext translations

2.572 2023-07-02 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/Makefile.am: be sure target dirs for MSGFMT exist - regardless of ABS paths
- scripts/python/Makefile.am: be sure target dirs for MSGFMT exist
- docs/config-prereqs.txt: be sure to use pip3 for python3 examples
- scripts/python/Makefile.am: fix msgfmt call syntax for non-GNU makes

2.573 2023-07-01 Jim Klimov <jimklimov+nut@gmail.com>

- . . . /python/app/locale/fr/LC_MESSAGES/NUT-Monitor.mo, scripts/python/app/locale/fr/fr.po: scripts/python/app/locale/fr/*: set custom Project-Id-Version same as in other translations
- . . . /python/app/locale/fr/LC_MESSAGES/NUT-Monitor.mo, . . . /python/app/locale/it/LC_MESSAGES/NUT-Monitor.mo, . . . /python Monitor.mo: scripts/python/app/locale/*/LC_MESSAGES/NUT-Monitor.mo: update binary translation files
- configure.ac, docs/config-prereqs.txt, docs/nut.dict, scripts/python/Makefile.am: scripts/python/Makefile.am, configure.ac, docs/config prereqs.txt: use gettext msgfmt to compile binary translation files

2.574 2023-06-30 Jim Klimov <jimklimov+nut@gmail.com>

- docs/security.txt, docs/nut.dict: add a chapter on checksum file verification [#1963]
- docs/security.txt: add maintainer notes on updating nut-key.gpg [#1963]
- docs/security.txt, docs/nut.dict: update "verifySourceSig" chapter with new GPG key set for "Jim Klimov . . . " DE0184DA7043DCF7 [#1963]
- docs/security.txt: clarify that GPG tool output varied over eons
- AUTHORS, NEWS, README, data/html/header.html.in, data/html/index.html, docs/FAQ.txt, docs/asciidoc.conf, docs/documentation.txt, docs/download.txt, docs/features.txt, docs/hid-subdrivers.txt, docs/history.txt, docs/man/adelsystem_cbi.txt, docs/man/al175.txt, docs/man/apcsmart-old.txt, docs/man/apcsmart.txt, docs/man/apcupsd-ups.txt, docs/man/asem.txt, docs/man/bcmxcp.txt, docs/man/bcmxcp_usb.txt, docs/man/belkin.txt, docs/man/belkinunv.txt, docs/man/bestfcom.txt, docs/man/bestfortress.txt, docs/man/bestuferrups.txt, docs/man/bestups.txt, docs/man/blazer-common.txt, docs/man/clone.txt, docs/man/dummy-ups.txt, docs/man/etapro.txt, docs/man/everups.txt, docs/man/gamatronic.txt, docs/man/generic_gpio.txt, docs/man/generic_modbus.t docs/man/genericups.txt, docs/man/hosts.conf.txt, docs/man/huawei-ups2000.txt, docs/man/isbmex.txt, docs/man/ivtscd.txt, docs/man/libupsclient-config.txt, docs/man/liebert-esp2.txt, docs/man/liebert.txt, docs/man/macosx-ups.txt, docs/man/masterguard.txt, docs/man/metasys.txt, docs/man/mge-shut.txt, docs/man/mge-utalk.txt, docs/man/microdowell.txt, docs/man/microsol-apc.txt, docs/man/netxml-ups.txt, docs/man/nut-driver-enumerator.txt, docs/man/nut-ipmipsu.txt, docs/man/nut-recorder.txt,

docs/man/nut-scanner.txt, docs/man/nut.conf.txt, docs/man/nutdrv_atcl_usb.txt, docs/man/nutdrv_qx.txt, docs/man/nutdrv_siemens_s
docs/man/nutupsdrv.txt, docs/man/oneac.txt, docs/man/optiups.txt, docs/man/phoenixcontact_modbus.txt, docs/man/pijuice.txt,
docs/man/powercom.txt, docs/man/powerman-pdu.txt, docs/man/powerpanel.txt, docs/man/rhino.txt, docs/man/richcomm_usb.txt,
docs/man/riello_ser.txt, docs/man/riello_usb.txt, docs/man/safenet.txt, docs/man/skel.txt, docs/man/snmp-ups.txt, docs/man/-
sockdebug.txt, docs/man/socomec_jbus.txt, docs/man/solis.txt, docs/man/tripplite.txt, docs/man/tripplite_usb.txt, docs/man/trip-
plitesu.txt, docs/man/ups.conf.txt, docs/man/upsc.txt, docs/man/upscmd.txt, docs/man/upscode2.txt, docs/man/upsd.conf.txt,
docs/man/upsd.txt, docs/man/upsd.users.txt, docs/man/upsdrvctl.txt, docs/man/upsdrvsvcctl.txt, docs/man/upsimage.cgi.txt,
docs/man/upslog.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/man/upsrw.txt, docs/man/upssched.conf.txt, doc-
s/man/upssched.txt, docs/man/upsset.cgi.txt, docs/man/upsset.conf.txt, docs/man/upsstats.cgi.txt, docs/man/upsstats.html.txt,
docs/man/usbhid-ups.txt, docs/man/victronups.txt, docs/new-clients.txt, docs/nut-names.txt, docs/security.txt, docs/snmp.txt,
docs/support.txt, docs/user-manual.txt, drivers/apcsmart.c, drivers/blazer.c, drivers/blazer.h, drivers/blazer_ser.c, drivers/blazer_usb.c,
drivers/delta_ups-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/hpe-pdu-mib.c, drivers/libhid.c, drivers/libusb0.c, drivers/libusb1.c,
drivers/nut_libusb.h, drivers/optiups.c, drivers/riello.c, drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c, indent.sh, scripts/Aix/n
aix.spec.in, scripts/Solaris/pkginfo.in, scripts/Windows/build-mingw-nut.sh, scripts/perl/Nut.pm, scripts/python/app/locale/NUT-
Monitor.pot, . . . /app/locale/fr/LC_MESSAGES/NUT-Monitor.mo, scripts/python/app/locale/fr/fr.po, . . . /app/locale/it/LC_MESSAGE
Monitor.mo, scripts/python/app/locale/it/it.po, . . . /app/locale/ru/LC_MESSAGES/NUT-Monitor.mo, scripts/python/app/locale/ru/ru.p
scripts/python/app/ui/aboutdialog1.ui, scripts/python/app/ui/gui-1.3.glade, scripts/python/app/ui/gui-1.3.glade.h, server/netget.c,
server/netmisc.c, tools/nut-ddl-dump.sh, tools/nut-usbinfo.pl: Wholesale update of website URL to "https://www.networkupstools.org"

- drivers/generic_gpio_common.h, drivers/generic_gpio_libgpiod.h: drivers/generic_gpio*.h: style (whitespace) fixes
- drivers/apcsmart.c, drivers/apcsmart.h, drivers/generic_gpio_libgpiod.c, drivers/generic_gpio_libgpiod.h: drivers/generic_gpio_libgpi
drivers/apcsmart.{c,h}: move DRIVER_NAME and DRIVER_VERSION from header to C source file as in other drivers
- drivers/adelsystem_cbi.c, drivers/al175.c, drivers/apcsmart-old.c, drivers/apcsmart.h, drivers/apcupsd-ups.c, drivers/asem.c,
drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/belkin.c, drivers/belkinunv.c, drivers/bestfcom.c, drivers/bestfortress.c, driver-
s/bestuferrups.c, drivers/bestups.c, drivers/blazer_ser.c, drivers/blazer_usb.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dummy-
ups.c, drivers/etapro.c, drivers/everups.c, drivers/gamatronic.c, drivers/generic_gpio_libgpiod.h, drivers/generic_modbus.c, driver-
s/genericups.c, drivers/huawei-ups2000.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/liebert-esp2.c, drivers/liebert.c, drivers/macosx-
ups.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-utalk.c, drivers/microdowell.c, drivers/microsol-apc.c, drivers/netxml-
ups.c, drivers/nut-ipmipsu.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c,
drivers/optiups.c, drivers/phoenixcontact_modbus.c, drivers/pijuice.c, drivers/powercom.c, drivers/powerman-pdu.c, driver-
s/powerpanel.c, drivers/rhino.c, drivers/richcomm_usb.c, drivers/riello_ser.c, drivers/riello_usb.c, drivers/safenet.c, drivers/skel.c,
drivers/snmp-ups.c, drivers/socomec_jbus.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, driver-
s/upscode2.c, drivers/usbhid-ups.c, drivers/victronups.c: Bump all driver versions before NUT v2.8.1 release [#1951] Follow-
up after core driver changes (main.c etc.) with `driver.state` #1767, driver reload command #1903, driver inter-instance
communications via socket #1922 and others. Also convert remaining single-digit X.Y versions to X.<Y\+1>0 double-digits.

2.575 2023-06-29 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nut-scanner.txt, docs/man/snmp-ups.txt: clarify that `secLevel` is required to use non-trivial authentication [#734]

2.576 2023-06-26 Jim Klimov <jimklimov+nut@gmail.com>

- docs/maintainer-guide.txt: stress the release git tag rituals [#1971]

2.577 2023-06-18 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut-names.txt: reference `docs/new-drivers.txt` by name for device status data definitions

2.578 2023-06-17 Blaz Zakrajsek <zakrajsek.blaz@gmail.com>

- drivers/liebert-hid.c: Apply code review fixes - Replace non-standard variable names for Full charge capacity and Design capacity - Prefix with experimental

2.579 2023-06-16 Blaz Zakrajsek <zakrajsek.blaz@gmail.com>

- drivers/liebert-hid.c: Improve liebert-hid driver - Add additional properties by analyzing the HID descriptor of the PowerWalker VI 1200 SHL - Existing properties were kept as they are to avoid breakage with other devices using the same driver

2.580 2023-06-14 Jim Klimov <jimklimov@gmail.com>

- clients/upssched.c: add enter/exit log tracing of sock_read() [#1964]

2.581 2023-06-13 Jim Klimov <jimklimov@gmail.com>

- NEWS: upssched CPU burn fixed [#1965, #1964]
- NEWS, docs/man/upssched.txt, clients/upssched.c: warn that enabled debug remains noisy for daemon part too [#1965]
- clients/upssched.c: start_daemon() loop (POSIX builds): generally throttle in case we have empty sock_read()s [#1964]
- clients/upssched.c: if we consistently get read()==0, abort eventually (even if no formal errors are reported) [#1964]
- clients/upssched.c: do not close STDERR of the daemon (to re-open as /dev/null) when nut_debug_level!=0 (follow-up from [#1879, #1889])
- clients/upssched.c: log-trace when the process (daemon or CLI) exits

2.582 2023-06-13 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upssched.c: improve logging of client connection life cycle
- tests/NIT/nit.sh: typo fix

2.583 2023-06-08 Jim Klimov <jimklimov+nut@gmail.com>

- docs/download.txt: update references to NUT client for VMWare ESXi
  - fix wording [#1961]
- docs/download.txt: update references to NUT client for VMWare ESXi
  - fix asciidoc markup [#1961]
- NEWS: update with reference to NUT client for VMware ESXi" project on GitHub [#1961]
- docs/download.txt: update references to NUT client for VMware ESXi And link to NUT Wiki for further setup suggestions

2.584 2023-06-05 Jim Klimov <jimklimov+nut@gmail.com>

- docs/new-drivers.txt, docs/nut-names.txt: no need for custom anchor for _status_data, change link style instead [#1957]
- docs/man/upslog.txt: refer to documentation on supported variable names [#1957]
- docs/new-drivers.txt: add anchor for _status_data [#1957]

2.585 2023-06-02 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS, UPGRADING: make note that ChangeLog file markup will differ from that in older NUT releases [#1955]
- tools/gitlog2changelog.py.in: update TextWrapper settings to not break up file paths Follows up from #1945

2.586 2023-06-01 Xavier Delaruelle <xavier.delaruelle@cea.fr>

- tools/gitlog2changelog.py.in: tools/gitlog2changelog.py: fix bitwise AND into regular AND Several if conditions where using bitwise AND whereas the intent was to do a regular AND test.

2.587 2023-06-01 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: update with OpenPGP [#1410]
- NEWS, docs/nut.dict: NEWS: published new maintainer GPG key DE0184DA7043DCF7 [#1410]
- configure.ac, include/Makefile.am: constrain use of "git describe" to release tags [#1949, nut-website#35, nut-website#34]

2.588 2023-05-26 Jim Klimov <jimklimov+nut@gmail.com>

- docs/documentation.txt: refer to NUT GitHub Wiki
- docs/documentation.txt: refer to HCL from near DDL
- docs/developers.txt: reword a bit about IDE support

2.589 2023-05-24 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: bump for IntelliJ

2.590 2023-05-23 Jim Klimov <jimklimov+nut@gmail.com>

- docs/developers.txt: typo fix
- docs/developers.txt: add a mention of IntelliJ IDEA
- docs/developers.txt: fix asciidoc table markup; update a few comments for Windows development environments
- Jenkinsfile-dynamatrix: withEnvOptional() was refactored from "infra" to a standalone step

2.591 2023-05-19 Xavier Delaruelle <xavier.delaruelle@cea.fr>

- tools/gitlog2changelog.py.in: tools/gitlog2changelog.py: apply Flake8 suggestions Apply on gitlog2changelog.py most code change suggestions from Flake8 Python style guide enforcement tool.
- tools/gitlog2changelog.py.in: tools/gitlog2changelog.py: apply Black suggestions Apply on gitlog2changelog.py code change suggestions from Black Python code formatter.
- tools/gitlog2changelog.py.in: tools/gitlog2changelog.py: fix expected git log format Update gitlog2changelog.py script to ensure git log format is not influenced by user git configuration.

2.592 2023-05-19 Jim Klimov <jimklimov+nut@gmail.com>

- docs/developers.txt, docs/nut.dict: docs/developers.txt: chapter on VSCode setup
- docs/developers.txt: update notes for IDE setup for debug symbols
- docs/nut.dict: docs/developers.txt: update notes for IDE (specifically NetBeans on Windows) setup
- docs/developers.txt: update notes for IDE (specifically NetBeans on Windows) setup

2.593 2023-05-13 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/Makefile.am: typo fix to not override man8_MANS definition

2.594 2023-05-12 Jim Klimov <jim@jimklimov.com>

- docs/man/sockdebug.txt: Update sockdebug.txt Fix markup (and a progname mention), add original code authors.

2.595 2023-05-11 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/sockdebug.txt: fix formatting; clarify standard state path handling (POSIX builds) [#1936]
- docs/man/index.txt: mention new sockdebug[8] man page
- clients/upssched.c: start_daemon(): transplant STDIN_FILENO/STDOUT_FILENO/STDERR_FILENO handling instead of hardcoded numbers, from common.c [#1879, #1881]
- drivers/upsdrvquery.c: upsdrvquery_read_timeout(): only log subsequent sleep-time diffs if we retried a sleep
- drivers/upsdrvquery.c: upsdrvquery_read_timeout(): fix retry-delays to 0.1sec (100msec, 100000usec)
- drivers/upsdrvquery.c: clearer parentheses and markup
- drivers/upsdrvquery.c: upsdrvquery_prepare(): fix time subtraction
- drivers/upsdrvquery.c: upsdrvquery_oneshot(): bump the sleep for upsdrvquery_read_timeout() PING/PONG
- drivers/upsdrvquery.c: upsdrvquery_read_timeout(): more tracing of time tracking
- drivers/upsdrvquery.c: use difftimeval() and better-precision struct timeval
- common/common.c, include/common.h: introduce a difftimeval()
- drivers/upsdrvquery.c: fix multipliers around tv_usec (10e6 not 10e3)
- drivers/upsdrvquery.c: upsdrvquery_read_timeout(): accept shorter delays, Windows does not guarantee a minimum sleep it seems
- drivers/upsdrvquery.c: fix whitespace
- server/sockdebug.c: address clang warnings

2.596 2023-05-10 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/upsdrvquery.c: fix whitespace
- drivers/upsdrvquery.c: upsdrvquery_prepare(): fix finishing quickly after a PONG
- drivers/upsdrvquery.c: enable a timeout and PING/PONG when preparing the connection
- docs/man/sockdebug.txt: update for unified ability to "make sockdebug" and no longer required fully-qualified path to socket in POSIX builds
- docs/sock-protocol.txt: update for unified ability to "make sockdebug" and no longer required fully-qualified path to socket in POSIX builds
- drivers/upsdrvquery.c: use PING after NOBROADCAST to minimize delays while playing safe [#1928]
- drivers/upsdrvquery.c: whitespace fixes
- server/sockdebug.c: fall back to dflt_statepath() when not using a full path to socket
- server/Makefile.am, NEWS, UPGRADING: install sockdebug if configured --with-dev
- docs/man/Makefile.am, docs/man/sockdebug.txt, docs/nut.dict: Introduce docs/man/sockdebug.txt
- Makefile.am: add a way to "make sockdebug" regardless of target platform

2.597 2023-04-24 Jim Klimov <jimklimov+nut@gmail.com>

- conf/upsset.conf.sample, docs/man/upsset.conf.txt, docs/nut.dict: docs/man/upsset.conf.txt, conf/upsset.conf.sample: document CGI securing syntax for modern Apache Thanks to Phil Stracchino <phils at caerllewys.net> for suggestions: https://alioth-lists.debian.net/pipermail/nut-upsuser/2023-April/013262.html
- drivers/upsdrvctl.c: when starting to send_all_drivers() or send_one_driver(), reset exec_error to 0 [#1927]
- drivers/main.c, drivers/upsdrvctl.c: drivers/upsdrvctl.c, drivers.main.c: use upsdrvquery_oneshot() caller-provided timeouts [#1929] Closes: #1929
- drivers/upsdrvquery.c, drivers/upsdrvquery.h: drivers/upsdrvquery.c: upsdrvquery_oneshot(): support optional caller-provided timeouts [#1929]
- drivers/upsdrvquery.c: upsdrvquery_request(): report how long we wait (and support indefinite waits) [#1914]
- docs/new-drivers.txt, docs/nut.dict: docs/new-drivers.txt: upsdrv_shutdown() must not exit() anymore [#1923]
- drivers/dummy-ups.c: do not ignore return of getcwd() [#1921]
- NEWS: Update about reload ability [#1903, #1914, #1924] and new use of driver.killpower instcmd [#1917, #1923]
- drivers/upsdrvquery.c: typo fix
- drivers/dummy-ups.c: handle "-x port=./path" or "C:\somepath" (WIN32) [#1921] Closes: #1921
- drivers/main.c: try to do_forceshutdown via socket protocol with a running driver first [#1923] Closes: #1923
- drivers/al175.c, drivers/apcupsd-ups.c, drivers/asem.c, drivers/bcmxcp.c, drivers/blazer.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dummy-ups.c, drivers/generic_gpio_common.c, drivers/generic_modbus.c, drivers/genericups.c, drivers/huawei-ups2000.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/liebert.c, drivers/macosx-ups.c, drivers/main.c, drivers/netxml-ups.c, drivers/nut-ipmipsu.c, drivers/nutdrv_qx.c, drivers/phoenixcontact_modbus.c, drivers/powercom.c, drivers/powerman-pdu.c, drivers/riello_ser.c, drivers/riello_usb.c, drivers/safenet.c, drivers/skel.c, drivers/snmp-ups.c, drivers/socomec_jbus.c, drivers/usbhid-ups.c: drivers/*: Avoid exit() and fatalx() in upsdrv_shutdown() handlers; set_exit_flag() instead [#1923]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: clarify in logged messages that we are **reloading or** restarting daemons
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: avoid re-definition of the driver if we can just reload it [#1924] Closes: #1924
- drivers/upsdrvquery.c: upsdrvquery_request(): drop received unrecognized queued replies [#1914]
- drivers/upsdrvquery.c, drivers/upsdrvquery.h: drivers/upsdrvquery.{c,h}: add a way to request new ReadFile() operation on WIN32 [#1914]
- drivers/upsdrvquery.c: update messages [#1914]
- drivers/upsdrvquery.c: rectify timeout processing precision [#1914]

2.598 2023-04-23 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/upsdrvquery.c: upsdrvquery_oneshot(): do not wait for NOBROADCAST to flush, we now support not-bailing on unexpected lines [#1920]
- drivers/upsdrvquery.c: upsdrvquery_read_timeout(): support zeroed-out "tv" as disable of wait
- drivers/upsdrvquery.c: upsdrvquery_prepare(): support zeroed-out "tv" as disable of wait
- drivers/upsdrvctl.c: enable "-c reload-or-error" on WIN32 [#1914, #1903]
- drivers/upsdrvquery.c, drivers/upsdrvquery.h: drivers/upsdrvquery.{c,h}: refactor to pass udq_pipe_conn_t around, and complete WIN32 fixes [#1914]
- docs/developers.txt: expand with a few IDE notes on Windows

- drivers/upsdrvquery.c: fix upsdrvquery_read_timeout() for WIN32 builds [#1903, #1914]
- ci_build.sh: suggest follow-up to poor maintainer-clean handling in autotools
- include/upsconf.h, common/upsconf.c, server/conf.c, server/upsd.c, drivers/main.c, drivers/upsdrvctl.c: change read_upsconf() API so it is not always fatal [#1903]
- drivers/main.c, drivers/main.h: drivers/main.c: enable SIGCMD_RELOAD_OR_ERROR handling for WIN32 [#1914, #1903]
- drivers/main.c: address compiler style warning
- drivers/upsdrvquery.c: upsdrvquery_connect(): copy-paste fixes for WIN32 part [#1903, #1914]
- drivers/main.c: address compiler style warning

2.599 2023-04-22 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nutupsdrv.txt, docs/man/upsdrvctl.txt, drivers/main.c, drivers/main.h, drivers/upsdrvctl.c: drivers/main.{c,h}, upsdrvctl sources and docs: add "reload-or-error" CLI handling [#1903, #1914] Handle SIGCMD_RELOAD_OR_ERROR commands to running drivers via upsdrvquery_oneshot()y
- drivers/Makefile.am, drivers/upsdrvquery.c, drivers/upsdrvquery.h: drivers/upsdrvquery.{c,h}, drivers/Makefile.am: Introduce a socket protocol client for quickshot commands [#1903, #1914]
- docs/man/nutupsdrv.txt: add placeholder for "-c reload-or-restart" CLI argument [#1903]
- drivers/main.c: main_instcmd(): add placeholder for "driver.reload-or-restart" support [#1903, #1914]
- drivers/main.c: main_instcmd(): set_reload_flag() by SIGCMD_* macros, not numbers [#1903, #1914]
- drivers/main.c: add socket-protocol handling for "driver.reload-or-error" INSTCMD [#1903, #1914]

2.600 2023-04-21 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: main(): register "driver.reload(-or-exit)" commands so `upsd` would accept them and `upscmd` can request them [#1903]
- drivers/dstate.c: sock_arg(): if shared main_instcmd()/main_setvar() did recognize and somehow process the request, honour TRACKING if present [#1903, #1920]
- drivers/main.c: un-hide nut_debug_level_args for mock-driver builds aka DRIVERS_MAIN_WITHOUT_MAIN now that it is referenced in main_setvar()⇒assign_debug_level() [#1903, #1285]
- server/pipedebug.c: seems WIN32 needs fflush(stdout)
- docs/sock-protocol.txt: clarify use of sockdebug in WIN32 builds
- common/common.c: vupslog(): only print timestamps to stderr if xbit_test(upslog_flags, UPSLOG_STDERR) at all, not just that the debug is enabled; also mark upslog_start when we first call the method, even if debu is not currently verbose (may change at run time) [#1903]
- common/common.c: vupslog(), nut_report_config_flags(): seems WIN32 needs fflush(stderr)
- drivers/dstate.c: sock_arg() (NO)BROADCAST handling ⇒ POSIX/WIN32 preparation of string: satisfy platforms where snprintf is a macro [#1914]
- drivers/main.c: main_instcmd()/main_setvar() POSIX/WIN32 preparation of string: satisfy platforms where snprintf is a macro [#1914]
- drivers/main.c: un-hide assign_debug_level() for mock-driver builds aka DRIVERS_MAIN_WITHOUT_MAIN now that it is referenced in main_setvar() [#1903, #1285]
- drivers/main.c: set_reload_flag (and SIGUSR1) are currently only for non-WIN32 builds [#1903, #1916]

- server/pipedebug.c: whitespace fixes (indentations et al)
- server/sockdebug.c, server/pipedebug.c: support -h/--help on CLI
- docs/sock-protocol.txt: suggest also server/sockdebug for dev/testing
- server/sockdebug.c: check return of fgets()
- server/sockdebug.c: #include "nut_stdint.h" for PRI* macros

2.601 2023-04-20 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: driver/main.c: main_instcmd() with basic "driver.reload" and "driver.reload-or-exit" support [#1903, #1914]
- drivers/dstate.c, drivers/dstate.h, drivers/main.c, drivers/main.h: driver/(main|dstate).(c\|h): extend main_instcmd()/main_setvar() with knowledge of conn_t involved [#1914]\
- NEWS, docs/nut.dict, docs/sock-protocol.txt, drivers/dstate.c, drivers/dstate.h: docs/sock-protocol.txt, drivers/dstate.{c,h}: extend driver-server socket protocol with (NO)BROADCAST option [#1914]
- docs/man/nutupsdrv.txt, docs/man/upsdrvctl.txt, docs/man/upsmon.txt, docs/man/upssched.txt: docs: update about NUT_*PATH envvars support
- docs/man/upssched.txt: mention UPSNAME and NOTIFYTYPE among supported envvars
- clients/upssched.c: comment how checkconf() is the processing loop
- clients/upssched.c: debugging does not impact backgrounding (update help text)
- NEWS, clients/upsmon.c, clients/upssched.c, docs/man/nutupsdrv.txt, docs/man/upsd.txt, docs/man/upsdrvctl.txt, docs/man/upsmon.t docs/man/upssched.txt, drivers/main.c, drivers/upsdrvctl.c, server/upsd.c: upsd, upsdrvctl, drivers, upsmon, upssched progs and docs, NEWS: introduce NUT_DEBUG_LEVEL envvar support (if no "-D" option(s) among CLI args) [#1915] Closes: #1915
- NEWS, docs/man/ups.conf.txt, drivers/main.c: drivers/main.c, NEWS: constrain INSTCMD "driver.killpower" by "driver.flag.allow_k setting [#1917] Closes: #1917
- drivers/dstate.c: if main_setvar()/main_instcmd() return STAT_*_INVALID, do not proceed to driver handler [#1914]
- NEWS, drivers/main.c: drivers/main.c: add support for INSTCMD "driver.killpower" [#1917]
- NEWS, drivers/main.c: drivers/main.c: introduce a way to show and set "driver.debug" level via socket protocol (upsrw etc.) [#1285] Closes: #1285
- drivers/main.c: debug-trace (and so use) args to main_instcmd() and main_setvar() handlers [#1285, #1914]
- drivers/dstate.c, drivers/main.c, drivers/main.h: drivers/main.{c,h}, drivers/dstate.c: introduce and handle shared main_instcmd() and main_setvar() handlers [#1285, #1914]
- docs/sock-protocol.txt: update with some clarifications
- tests/NIT/nit.sh: report test case names at start of ther methods, to find error reports in log more easily

2.602 2023-04-20 Clappier Eric <ericclappier@eaton.com>

- drivers/snmp-ups.c: Acquisition failed with daisychain epdu G3 with sensors (#1911) * Hot fix for infinite loop during discovery daisychain epdu G3 with sensors * Change log message in guesstimate_template_count function

2.603 2023-04-19 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/upsdrvctl.c: buildability for WIN32 (unused code warnings) [#1903]
- drivers/upsdrvctl.c: fix main loop buildability for WIN32 [#1903]
- drivers/upsdrvctl.c: set_signal_flag(): relax const-ness to save the signal
- drivers/upsdrvctl.c: fix builds for WIN32 [#1903]
- NEWS: clarify nut-driver-enumerator vs. debug_min edits [#1903]
- scripts/systemd/nut-driver@.service.in: exec upsdrvctl to avoid another extra fork
- scripts/Solaris/nut-driver.xml.in: fix refresh to send SIGUSR1 now [#1903]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: use systemd ExecReload for drivers now [#1903]
- scripts/systemd/nut-driver@.service.in: fix ExecReload to send SIGUSR1 now [#1903]
- configure.ac: set SYSTEMD_DAEMON_ARGS_DRIVER="-FF" to avoid excess forking (thanks to #1903)
- drivers/main.c: fix WIN32 buildability
- drivers/upsdrvctl.c: help() exits here, so leave just fatalx() with diagnosis
- drivers/upsdrvctl.c: avoid name shadowing after including main.h (for #1903)
- drivers/main.c: main(): rectify handling of "foreground" variants, fix a typo [#1903]
- NEWS, docs/nut.dict: NEWS: update for signal support with drivers and upsdrvctl [#1903]
- drivers/upsdrvctl.c: recycle drivers that aborted due to SIGCMD_RELOAD_OR_EXIT [#1903]
- drivers/main.c: reload-or-exit: exit with 128\+SIGNUM on POSIX systems [#1903]
- drivers/upsdrvctl.c: actually forward supported signals accumulated by a running upsdrvctl [#1903]
- drivers/upsdrvctl.c: refactor reset_signal_flag() [#1903]
- docs/man/upsdrvctl.txt: update for new signal-sending support [#1903]
- drivers/main.c: handle_reload_flag(): log for which device (help mass-mgmt via upsdrvctl) [#1903]
- drivers/upsdrvctl.c: error out for dangling CLI arguments
- drivers/upsdrvctl.c: implement signal handling and "-c COMMAND" to pass on to drivers [#1903]
- drivers/main.c, drivers/main.h: drivers/main.{c,h}: move SIGCMD_* definitions to header for re-use [#1903]
- server/upsd.c, clients/upsmon.c: optargs: check other command options only if we did not have a hit earlier
- drivers/main.c: do not need a "port=..." to handle a command/signal option (with -s TMPUPSNAME) [#1903]
- drivers/main.c: optargs: only accept command/signal option once [#1903]
- drivers/main.c: optargs: check other command options only if we did not have a hit earlier [#1903] In particular, avoid finding "reload" again in longer command names
- drivers/main.c: set_reload_flag(), optargs: log the command signal posted/received [#1903]
- drivers/main.c: set_reload_flag(): rearrange comments and log messages [#1903]
- docs/man/upsdrvctl.txt, drivers/upsdrvctl.c: drivers/upsdrvctl.c: add "-FF" mode to match driver abilities [#1299]
- docs/man/nutupsdrv.txt, drivers/main.c: drivers/main.c: refactor "background_flag" ⇒ "foreground" and add "-FF" mode to match upsd/upsmon [#1299]

- docs/man/nutupsdrv.txt, drivers/main.c: drivers/main.c: add support for command-line "reload", "reload-or-exit" (reserved "reload-or-restart" not implemented/offered yet), and -P OLDPID options [#1903]
- drivers/main.c: use macros to define SIGCMD_DATA_DUMP (moved from SIGUSR2 to SIGURG/SIGWINCH by default), SIGCMD_RELOAD, SIGCMD_RELOAD_OR_EXIT (and clarify difference from reserved SIGCMD_RELOAD_OR_RESTART) [#1903]
- drivers/main.c: rename temporary "buffer" to "pidfnbuf" for a bit of readability
- server/conf.c: parse_upsd_conf_args(): only warn about ignoring STATEPATH in favor of NUT_STATEPATH if the two strings are not equal [#1908]

2.604 2023-04-18 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: hide nut_debug_level_args as for DRIVERS_MAIN_WITHOUT_MAIN [#1903]
- docs/man/generic_gpio.txt: do not suggest non-standard "description", use "desc" instead [#1892]
- drivers/generic_gpio_common.c, drivers/generic_gpio_libgpiod.c: fix "upsdebugx(LOG_DEBUG,...)" calls We debug with somewhat arbitrarily assigned verbosity numbers. The LOG_* definitions are from syslog (and equivalents for WIN32 event log).
- drivers/main.c: log that a VAR_SENSITIVE value is not saved (and comment that override/default bypasses this) [#1892]
- drivers/generic_gpio_common.c, tests/generic_gpio_utest.c: mfr/model vars are not "sensitive" and "desc(ription)" are not handled via addvar() at all [#1892]
- drivers/main.c, NEWS: support SIGUSR2 to immediately dstate_dump() and move on [#1907]
- server/conf.c: parse_upsd_conf_args(): prefer NUT_STATEPATH envvar to STATEPATH from file [#1908]
- server/upsd.c: trace-log the statepath actually used [#1908]
- server/sstate.c: sstate_connect(): trace-log the paths involved if failed to connect() to a driver pipe [#1908]
- drivers/main.c: testvar_reloadable(): fix logic botched by refactoring [#1903]
- drivers/main.c: test*_reloadable(): trace-log the verdict in all cases [#1903]
- drivers/main.c: move reload_flag support in main loop to be more reactive and refactor as handle_reload_flag() [#1903]
- drivers/main.c: refactor reload_flag support for existing flags (log that skipped) [#1903]
- drivers/main.c: support SIGUSR1 ⇒ reload_flag=2 ⇒ driver may exit() if changed configs that can not be applied on the fly [#1903]
- drivers/main.c: cover assign_debug_level() under DRIVERS_MAIN_WITHOUT_MAIN [#1903]
- common/common.c: #if ⇒ #ifdef\+if [#1903]

2.605 2023-04-17 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: AM_COND_IF macro supported since aclocal-1.11; fall back to raw vars for older tools
- scripts/Solaris/nut-driver.xml.in: define basic SMF "refresh" support to send SIGHUP to a driver [#1903]
- NEWS: Implemented basic support for `ups.conf` reloading in NUT drivers [#1903]
- configure.ac: do fail checks due to unknown tokens with SYSTEMD_ANALYZE_PROGRAM [#1903, #1590]
- configure.ac: do not make noise with SYSTEMD_ANALYZE_PROGRAM [#1903, #1590]
- configure.ac: fix "end-user" square brackets for M4 markup [#1903]

- configure.ac: for common.c::upsnotify(): detect actual support for systemd Type=notify for good measure [#1903, #1590]
- configure.ac: for common.c::upsnotify(): detect support for systemd Type=notify-reload and enable it for nut-driver@.service if applicable [#1903]
- configure.ac: for common.c::upsnotify(): detect support for HAVE_CLOCK_GETTIME and HAVE_CLOCK_MONOTONIC [#1903]
- common/common.c: upsnotify(): support posting MONOTONIC_USEC when RELOADING/READY [#1903]
- scripts/systemd/nut-driver@.service.in: typo fix in comment
- scripts/systemd/nut-driver@.service.in: support ExecReload via "kill -SIGHUP" [#1903]
- drivers/main.c: assign_debug_level(): update messages and comments, report if nut_debug_level_args overrides smaller/unset nut_debug_level_upsconf
- drivers/main.c: fix do_global_args() and main_arg() to not ignore unmodified settings during reload [#1903]
- drivers/main.c: actually read_upsconf() to handle reload (SIGHUP) [#1903]
- drivers/main.c: always setup_signals() if we are not a one-shot run (fore- or back-ground)
- drivers/main.c: upsdebugx() raising the flags due to signals (exit, reload) [#1903]
- drivers/main.c: do_upsconf_args(): fix handling of "driver" value [#1903]
- drivers/main.c: pepper test*_reloadable() and do_upsconf_args() with upsdebugx() [#1903]
- drivers/main.c: testvar_reloadable(): handle known flags conservatively [#1903]
- drivers/main.c: introduce (and honour) nut_debug_level_args [#1903]
- drivers/main.c: refactor assign_debug_level()
- drivers/main.c: do_global_args(), main_arg(): respect reload_flag [#1903]
- drivers/main.c: move pollinterval handling from do_upsconf_args() to main_arg()
- drivers/main.c: testvar_reloadable(), testval_reloadable(): clarify if the driver must be restarted to apply a value change [#1903]
- drivers/main.c, drivers/main.h: drivers/main.{c,h}: make testvar_reloadable(), testval_reloadable(), testinfo_reloadable() a public API in case drivers would need to know [#1903]
- drivers/main.c: add skeleton handling for reload_flag [#1903]
- drivers/main.c, drivers/main.h: driver/main.{c,h}: extend internal API with addvar_reloadable() and vartab_t→reloadable field [#1903]

2.606 2023-04-12 Jim Klimov <jimklimov@gmail.com>

- scripts/usb_resetter/README.md: Update README.md Some more formatting/wording fixes
- scripts/usb_resetter/README.md: Update README.md Reformatted line widths and code examples, incorporated PR discussion notes

2.607 2023-04-04 Jim Klimov <jimklimov@gmail.com>

- drivers/salicru-hid.c: Update salicru-hid.c Whitespace and alphabetic fixes, subdriver version bump

2.608 2023-04-04 David Martinez <dmartinez.martin@atsistemas.com>

- data/driver.list.in, drivers/salicru-hid.c, scripts/upower/95-upower-hid.hwdb: feat: Added support for Salicru SPS 3000 ADV RT2

2.609 2023-04-01 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: adapt to newer website preparations

2.610 2023-04-01 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx_voltronic.c: cover another path to "battery.voltage" with qx_multiply_battvolt()

2.611 2023-03-31 Orsiris de Jong <ozy@netpower.fr>

- scripts/usb_resetter/README.md: usb_resetter: add --list-hubs command example
- docs/FAQ.txt: Add driver disconnected usb_resetter entry
- scripts/usb_resetter/nut-driver.service: Add usb_resetter enabled nut-driver systemd service
- scripts/usb_resetter/README.md: Add usb_resetter instructions

2.612 2023-03-31 Jim Klimov <jimklimov@gmail.com>

- NEWS: integration with usb_resetter documented [#1887]
- docs/nut.dict: Update nut.dict

2.613 2023-03-31 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx.c: should we not use correct battery_voltage_reports_one_pack_considered every loop?
- Makefile.am: MAINTAINERCLEANFILES\+=ar-lib
- common/common.c: background(): use STDIN_FILENO/STDOUT_FILENO/STDERR_FILENO macros instead of hard-coded FD 0-1-2 numbers [#1879, #1881] Closes: #1879 Closes: #1881
- include/common.h: define STDIN_FILENO/STDOUT_FILENO/STDERR_FILENO if absent on the platform
- configure.ac: detect support of dup() and/or dup2() on the platform
- .gitignore: GitIgnore ar-lib tool, if added by automake (see AM_PROG_AR in configure.ac)
- configure.ac: use m4_ifdef for optional AM_SILENT_RULES support
- configure.ac: use AM_PROG_AR if available (quiesce autoreconf portability warning) Inspired by https://github.com/vlm/-asn1c/pull/63/files
- autogen.sh: add "-v" or "export (CI_)DEBUG=true" support

2.614 2023-03-30 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: test C\+\+11 nuances that NUT uses and which fail with older gcc-4.x with intermediate levels of support
- configure.ac: typo fix for "have_cxx11=no," verdict
- clients/nutclient.cpp, clients/nutclient.h: clients/nutclient.h: declare NutException&Co destructors as "noexcept" to match some system headers std::except
- autogen.sh: suggest what to do in case of m4 "ifdef" errors
- docs/config-prereqs.txt: typo and markup fixes
- docs/ci-farm-lxc-setup.txt: split container installation and setup into visible sub-chapters
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: clarify use of expired keys for ancient Debian releases

2.615 2023-03-23 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS, drivers/baytech-mib.c: drivers/baytech-mib.c: update baytech_outlet_status_info[] valid values [#1871]

2.616 2023-03-22 Evgeny Klimov <jimklimov+nut@gmail.com>

- drivers/upsdrvctl.c: avoid another warning (WIN32 builds)

2.617 2023-03-21 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/upsdrvctl.c: fix build warnings
- drivers/upsdrvctl.c: only check for child process PIDs on POSIX platforms
- drivers/upsdrvctl.c: track if any of launched foreground-mode drivers exited, and then abort the whole bundle (so it can be consistently restarted)
- drivers/upsdrvctl.c: fix some WIN32 code style
- drivers/upsdrvctl.c: track started foregrounded driver PID(s) to stop when exiting on signal
- drivers/upsdrvctl.c: fix logged message markup and TODO comments for foregrounded mode
- docs/man/upsdrvctl.txt, NEWS: update info about upsdrvctl foregrounding mode support
- drivers/upsdrvctl.c: update logged messages about foregrounding mode
- drivers/upsdrvctl.c: do not exit the tool if foregrounding was requested
- drivers/upsdrvctl.c: log when the tool is exiting
- drivers/upsdrvctl.c: count the UPSes we would command; foregrounding behavior depends on that number
- drivers/upsdrvctl.c: complete the fix for upsdrvctl explicit fore-/back-grounding mode [#1806 follow-up]
- tests/NIT/nit.sh: double-quote the driverpath value so it is properly parsed

2.618 2023-03-14 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: fixup! NEWS: libdummy_mockdrv.la added [#1855]

2.619 2023-03-13 Jim Klimov <jimklimov@gmail.com>

- tests/Makefile.am: simplify recipe for gpiotest
- NEWS: libdummy_mockdrv.la added [#1855]
- drivers/generic_gpio_common.c, drivers/generic_gpio_common.h, tests/Makefile.am, tests/generic_gpio_utest.c: tests/generic_gpio_u tests/Makefile.am: avoid "include generic_gpio_common.c generic_gpio_liblocal.c generic_gpio_libgpiod.c" in test code
- tests/generic_gpio_utest.c, tests/Makefile.am: avoid sourcing "main.c" and "dstate.c" right into test code
- drivers/Makefile.am, drivers/main.c, drivers/main.h: drivers/main.{c,h} drivers/Makefile.am: introduce libdummy_mockdrv.la (and DRIVERS_MAIN_WITHOUT_MAIN)
- tests/generic_gpio_utest.c, tests/Makefile.am: EXTRA_DIST and use for out-of-tree builds the generic_gpio_test.txt resource file
- tests/Makefile.am: refer to "tests/" as include-dir for gpiotest
- tests/generic_gpio_utest.c: add a declaration of ignore() to override the original main() from included main.c
- drivers/dstate.c: sock_fail(): rename "struct passwd *user" to avoid clash with global varname in main.c (due to tests/-generic_gpio_utest.c construction)
- drivers/generic_gpio_common.h, tests/generic_gpio_liblocal.c, tests/generic_gpio_utest.c: Define NUT_GPIO_SUBTYPEBUF and NUT_GPIO_CHIPNAMEBUF for consistency, avoid local/global varname clashes for chipName
- drivers/generic_gpio_libgpiod.c: rename "num_lines" to avoid global varname clash (in tests)
- tests/Makefile.am, tests/generic_gpio_liblocal.c, tests/generic_gpio_utest.c, tests/generic_gpio_utest.h: Introduce tests/generic_gpio_u
- tests/Makefile.am: drivers/Makefile.am: relocate "endif" lines so sources of tests are always redistributed
- drivers/generic_gpio_libgpiod.c: rename "(gpio)upsfd" method arguments to avoid shadowing global varnames
- drivers/generic_gpio_common.c: rename "(gpio)upsfd" method arguments to avoid shadowing global varnames
- drivers/generic_gpio_common.c, drivers/generic_gpio_common.h, drivers/generic_gpio_libgpiod.h: drivers/generic_gpio*.h: move "extern struct gpioups_t *gpioupsfd" to generic_gpio_common.h
- tests/.gitignore: GitIgnore tests/gpiotest* artifacts

2.620 2023-03-13 Jim Klimov <jimklimov+nut@gmail.com>

- tests/Makefile.am: clean away symlinked gpiotest sources
- tests/Makefile.am, tests/.gitignore: refer to generic_gpio_libgpiod.c/generic_gpio_common.c differently for portability
- tests/Makefile.am: relocate "endif" lines back, with a different way for sources of tests are always redistributed
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: suggest Zadig tool to handle UPS with WinUSB (for WIN32 builds)

2.621 2023-03-11 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: do not require --with-gpio=yes for builds --with-all even on Linux: only the newer distros support the tech
- NEWS, UPGRADING, docs/configure.txt: clarify that libgpiod is for Linux released after \~2018
- docs/config-prereqs.txt: add installation of (lib)gpio(d)-dev(el) where feasible
- docs/configure.txt: update prereq note for GPIO drivers
- configure.ac, m4/nut_check_libgpiod.m4: fix actual --with-gpio handling

- drivers/Makefile.am: add generic_gpio*.h to dist_noinst_HEADERS
- configure.ac: relocate all "NUT_ARG_WITH(build and install GPIO driver)" to other drivers, so they are nearby in configure --help
- m4/nut_check_pkgconfig.m4: fix AS_HELP_STRING (program name; not optional)
- configure.ac: relocate all "NUT_ARG_WITH(build and install ... driver)" together, so they are nearby in configure --help
- NEWS, UPGRADING, docs/configure.txt, docs/packager-guide.txt: mention new category of GPIO drivers
- configure.ac: currently --with-gpio defaults are platform-dependent

2.622 2023-03-07 modrisb <modrisb@apollo.lv>

- drivers/generic_gpio_libgpiod.c: fixed debug print in common
- tests/Makefile.am, tests/generic_gpio_liblocal.c, tests/generic_gpio_test.txt, tests/generic_gpio_utest.c: added tests for gpio
- drivers/generic_gpio_libgpiod.c: libgpiod formatting
- drivers/generic_gpio_libgpiod.c, m4/nut_check_libgpiod.m4: adding 2 missed commits

2.623 2023-03-07 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: add rudimentary support for "./ci_build.sh spellcheck-interactive"
- docs/developers.txt, docs/nut.dict: docs/developers.txt: add a chapter on IDEs

2.624 2023-03-06 modrisb <modrisb@apollo.lv>

- drivers/generic_gpio_common.c: 2n round of refactoring after test

2.625 2023-03-06 Jim Klimov <jimklimov@gmail.com>

- tools/nut-scanner/scan_xml_http.c: Update scan_xml_http.c

2.626 2023-03-06 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: nut-scanner: reformat "Cannot load ... library" reports, fix varname for libneon

2.627 2023-03-05 modrisb <modrisb@apollo.lv>

- drivers/generic_gpio_common.c: fixes after extensive rules& states calc tests

2.628 2023-03-05 Jim Klimov <jimklimov@gmail.com>

- drivers/libusb1.c: Update libusb1.c Change to conventional error-message format

2.629 2023-03-05 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: become_user(): "pw" is not NUT_UNUSED_VARIABLE() anymore
- drivers/libusb1.c: report text of libusb_error when libusb_kernel_driver_active() fails
- ci_build.sh: try to ensure a TMPDIR

2.630 2023-03-04 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: become_user(): fix behavior with NULL arg
- tools/nut-scanner/nutscan-init.c: pepper with upsdebugx(1,...) to track overview progress of library loading (or not)
- tools/nut-scanner/nutscan-init.c: first search for contemporary libupsclient DLL on Windows
- tools/nut-scanner/nutscan-init.c: fix searching for libneon and libnetsnmp on Windows
- common/common.c: fix checking for DLLs in "../lib" relative to EXE location
- common/common.c: be sure to check for DLLs in EXE location (even if it is not "." workdir)
- drivers/main.c: use common nut_report_config_flags() to debug-log details of the driver build
- common/common.c: reword stderr printout as upsdebugx(1,...) pattern
- common/common.c: externalize (and rename) struct timeval upslog_start so other methods can use the same accounting

2.631 2023-03-02 modrisb <modrisb@apollo.lv>

- drivers/generic_gpio_common.c, drivers/generic_gpio_libgpiod.c: removed test code and finalized styling

2.632 2023-03-01 modrisb <modrisb@apollo.lv>

- drivers/generic_gpio_libgpiod.c: removed define for debug

2.633 2023-03-01 Jim Klimov <jimklimov+nut@gmail.com>

- docs/scheduling.txt: align example timeouts in different paragraphs
- configure.ac: extend search for RUN_AS_USER in upsmon.conf [#1859]
- configure.ac: reshuffle for --enable-inplace-runtime=reenter support; detect sysconfdir/user/group in one place where we care for "inplace" mode [#1859]
- configure.ac: fix re-entry of the script when handling --enable-inplace-runtime [#1859]
- configure.ac: comment that in some systems, the upsd in PATH is a shell wrapper [#1859] e.g. in Debian packaging where it is tied into "MODE" of nut.conf

2.634 2023-02-28 Jim Klimov <jimklimov+nut@gmail.com>

- docs/developers.txt: update coding style guide about braces after if/while/for/... even for a single line
- clients/upssched.c: parse_at(): add upsdebugx() tracing [#1858]
- clients/upsc.c, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, server/upsd.c, tools/nut-scanner/nut-scanner.c: Fix help()/usage() in many programs to suggest "-h" and/or "-V" options
- clients/upssched.c: enable command-line argument handling [#1863] Closes: #1863
- clients/upssched.c: Revert "clients/upssched.c: main(): find use for argc" This reverts commit dca2315fa8fb9a80528726cbc235310f19 Not needed anymore, and actually added a bug (prog not remembered).
- m4/ax_realpath.m4: comment about recursion involved [#1859]
- configure.ac: disable UNITTEST_AX_REALPATH and the exit afterwards [#1859]
- m4/ax_realpath.m4: AX_REALPATH(): quote reported pathnames consistently [#1859]
- m4/ax_realpath.m4: AX_REALPATH(): report if resolved pathname differs from input value [#1859]
- m4/ax_realpath.m4: AX_REALPATH(): try AX_REALPATH_SHELL_RECURSIVE even if file is not found initially; fix how we decide it is not found [#1859]
- m4/ax_realpath.m4: AX_REALPATH_SHELL_RECURSIVE() AX_REALPATH_SHELL_ONELEVEL(): drop support for LVL (shell vars misbehave here so not interesting) [#1859]
- m4/ax_realpath.m4: split AX_REALPATH_SHELL_RECURSIVE() into a loop and its called method [#1859]
- m4/ax_realpath.m4: UNITTEST_AX_REALPATH(): relocate shell logic into AX_REALPATH_SHELL_RECURSIVE() [#1859]
- m4/ax_realpath.m4: UNITTEST_AX_REALPATH(): reword a test description [#1859]
- m4/ax_realpath.m4: UNITTEST_AX_REALPATH(): avoid using /tmp directly if possible [#1859]
- m4/ax_realpath.m4: format messages in UNITTEST_AX_REALPATH() and UNITTEST_AX_REALPATH_EXPECT() in a friendlier fashion [#1859]
- m4/ax_realpath.m4: refactor UNITTEST_AX_REALPATH() with UNITTEST_AX_REALPATH_EXPECT() helper [#1859]
- configure.ac: TEMPORARY: add call to UNITTEST_AX_REALPATH and exit after it [#1859]
- m4/ax_realpath.m4: introduce UNITTEST_AX_REALPATH [#1859]

2.635 2023-02-27 modrisb <modrisb@apollo.lv>

- m4/nut_check_libgpiod.m4: naming change for PKG_CONFIG - dev version
- configure.ac, drivers/Makefile.am, m4/nut_check_libgpiod.m4: added m4 file for driver

2.636 2023-02-27 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update docs/nut.dict

2.637 2023-02-27 Jim Klimov <jimklimov+nut@gmail.com>

- m4/ax_realpath.m4: add some error-checking for unresolved paths [#1859]
- configure.ac, m4/ax_realpath.m4: configure.ac: refactor realpath_m4() into m4/ax_realpath.m4 [#1859]
- configure.ac: introduce realpath_m4() [#1859]

2.638 2023-02-26 modrisb <modrisb@apollo.lv>

- docs/man/Makefile.am, docs/man/{gpio.txt ⇒ generic_gpio.txt}, drivers/Makefile.am, drivers/generic_gpio_common.c, drivers/generic_gpio_common.h, drivers/generic_gpio_libgpiod.c, drivers/generic_gpio_libgpiod.h: PR review #1 (no m4)

2.639 2023-02-26 Jim Klimov <jimklimov@gmail.com>

- INSTALL.nut: update instructions for parallel make all \+ check

2.640 2023-02-25 modrisb <modrisb@apollo.lv>

- docs/man/gpio.txt, drivers/Makefile.am, drivers/{gpio.c ⇒ generic_gpio_common.c}, drivers/{gpio.h ⇒ generic_gpio_common.h}, drivers/generic_gpio_libgpiod.c, drivers/generic_gpio_libgpiod.h: renamed source code files

2.641 2023-02-23 modrisb <modrisb@apollo.lv>

- drivers/gpio.c, drivers/gpio.h: refactored to better split generic code from gpio library specific code
- docs/man/gpio.txt, docs/nut.dict: man page spellcheck fixes

2.642 2023-02-22 modrisb <modrisb@apollo.lv>

- drivers/gpio.c: removed local test define
- docs/man/Makefile.am, docs/man/gpio.txt, drivers/gpio.c: PR preparation fixes
- drivers/gpio.h: .h updates
- docs/man/gpio.txt, drivers/gpio.c: preparing for PR
- docs/man/gpio.txt: added draft man page

2.643 2023-02-22 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: nut_report_config_flags(): avoid warnings about unreachable code
- common/common.c: nut_report_config_flags(): make it clear (and safe for in-place mode) when no CONFIG_FLAGS were customized for a NUT build
- m4/nut_report_feature.m4: fix NUT_REPORT_TARGET() for multi-token values of CC_VERSION etc.
- configure.ac: fixup! configure.ac: report CC_VERSION (also into config.h)
- m4/nut_report_feature.m4: fix printf() reporting of potentially "funny" strings
- common/common.c: nut_report_config_flags(): report CC_VERSION if available
- configure.ac: report CC_VERSION (also into config.h)
- configure.ac, m4/nut_compiler_family.m4: minimize executions of "CC --version" etc, make it LANG-agnostic, cache as CC_VERSION etc.
- common/common.c, configure.ac: configure.ac: actually, we should not forcefully export NUT_SOURCE_GITREV into config.h
- common/common.c, configure.ac: configure.ac, common/common.c nut_report_config_flags(): track and report NUT_SOURCE_GIT if available (even where nut_version.h imposes strict version)

2.644 2023-02-20 modrisb <modrisb@apollo.lv>

- drivers/gpio.h: initial for GPIO(2)
- configure.ac, drivers/Makefile.am, drivers/gpio.c: initial for gpio driver support

2.645 2023-02-13 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: options *-a id* and *-s id* are mutually exclusive and single-use only
- configure.ac: --enable-inplace-runtime should not disregard sysconfdir which the build user may not read

2.646 2023-02-12 Jon Gilmore <jon@gilmore.cloud>

- drivers/tripplite-hid.c, scripts/upower/95-upower-hid.hwdb: add support for minuteman device a0a0

2.647 2023-02-12 Jim Klimov <jimklimov@gmail.com>

- drivers/tripplite-hid.c: Update tripplite-hid.c Update subdriver version along with content bump

2.648 2023-02-11 Yifeng Li <tomli@tomli.me>

- drivers/huawei-ups2000.c: huawei-ups2000: fix broken timeout recovery behavior in Issue #1846. Occasionally, the UPS takes longer than 1 second to respond and finish transmitting a message. This causes a timeout in modbus_read_registers(), and the driver is supposed to retry the request and recover from the failure. Unfortunately, when the driver retries, instead of getting the result of the current request, the leftover bytes from the previous read is received from the serial buffer, creating invalid messages. It causes all following reads to also fail, often with an "Invalid CRC" error, and the driver can never recovery from the failure. This commit fixes the bug by flushing the buffer using function modbus_flush() before invoking modbus_read_registers(). The libmodbus timeout value is also bumped to 2 seconds to avoid unnecessary timeouts and subsequent retries. Finally, the version number is also bumped to reflect the existence of this fix.

2.649 2023-02-07 Jim Klimov <jimklimov+nut@gmail.com>

- INSTALL.nut: fix link to Config Prereqs in generated HTML version

2.650 2023-02-05 Jim Klimov <jimklimov+nut@gmail.com>

- INSTALL.nut, docs/nut.dict: INSTALL.nut: update with "in-place" rebuilds chapter [#1826]

2.651 2023-02-03 Jim Klimov <jimklimov+nut@gmail.com>

- .github/FUNDING.yml: Introduce .github/FUNDING.yml metadata

2.652 2023-02-02 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: add OSC and opencollective

2.653 2023-02-01 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: rearrange progress message for "whether to build binaries with tighter systemd integration support"
- configure.ac: quiesce python checks for modules

2.654 2023-01-28 Jim Klimov <jimklimov@gmail.com>

- docs/man/riello_usb.txt: Update riello_usb.txt
- NEWS: Update NEWS
- docs/man/riello_usb.txt: Update riello_usb.txt

2.655 2023-01-26 Jim Klimov <jimklimov+nut@gmail.com>

- appveyor.yml: avoid redirect to /dev/null on Windows
- appveyor.yml: bolt ccache location to avoid wasting space on Appveyor for older vs newer layouts
- appveyor.yml: avoid amperesand in YAML
- ci_build.sh: in the end, query ccache compression stats if supported
- appveyor.yml: stash another possible ccache location
- appveyor.yml: in the end, query ccache compression stats if supported
- appveyor.yml: set ccache config options
- tests/NIT/nit.sh: have a sense of time in the log_*() messages When tests fail on CI farm, this should help see timeouts due to farm under too much stress vs. "real" reasonable problems.
- ci_build.sh: separate [build] and [check] failures (and successes) in BUILD_TYPE=default-all-errors reports

2.656 2023-01-24 Jim Klimov <jimklimov@gmail.com>

- NEWS: bestfortress shutdown timeout fixed [#1820]

2.657 2023-01-23 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: suggest CI_REQUIRE_GOOD_GITIGNORE="false" in error message
- ci_build.sh: fix condition and shorten the printed lines for install-sh warning
- configure.ac: fix condition and shorten the printed lines for install-sh warning
- ci_build.sh: try workarounds for old and broken install-sh [#1831]
- configure.ac: suggest workarounds for old and broken install-sh, visibly just before the end [#1831]

2.658 2023-01-22 Jim Klimov <jimklimov@gmail.com>

- drivers/bestfortress.c: Update bestfortress.c Fix prints of `(s)size_t` variables

2.659 2023-01-22 Jim Klimov <jimklimov+nut@gmail.com>

- tools/Makefile.am: give delivery of GENERATED_USB_OS_FILES more chances to succeed
- docs/Makefile.am, docs/man/Makefile.am, scripts/Solaris/Makefile.am: */Makefile.am: replace "mkdir -p" by MKDIR_P autotools macro
- tools/Makefile.am: do not fail (just warn) if any of GENERATED_USB_OS_FILES are missing or empty [#1831]
- autogen.sh: ensure that nut-usbinfo.pl runs if any of its products are missing, not just a few (and comment how to keep the list updated) [#1831]
- tools/Makefile.am: streamline "rebuilds" of GENERATED_USB_OS_FILES if needed [#1831] An alternative solution to #1832
- tools/Makefile.am: comment GENERATED_SNMP_FILES\+GENERATED_USB_FILES vs. GENERATED_USB_OS_FILES lifecycles [#1831]
- scripts/augeas/Makefile.am: fix EXTRA_DIST for nutupsconf.aug.in [#1831]
- scripts/Makefile.am, tools/Makefile.am: scripts/Makefile.am: fix EXTRA_DIST for upower/95-upower-hid.hwdb [#1831]
- scripts/devd/Makefile.am: fix EXTRA_DIST for nut-usb.conf.in [#1831]
- scripts/udev/Makefile.am: fix EXTRA_DIST for nut-usbups.rules.in [#1831]
- scripts/hotplug/Makefile.am: fix EXTRA_DIST for libhid.usermap [#1831]
- ci_build.sh: help find end of NUT_x_VARIANT=... failed build (before cleanup noise) in CI logs
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: suggest MKDIRPROG hack for installing on NetBSD [#1834]
- configure.ac, m4/nut_report_feature.m4: move KEEP_NUT_REPORT definition to before AC_OUTPUT [#1826]
- UPGRADING: document --enable-keep_nut_report_feature and that the file can be installed [#1826, #1708]
- docs/configure.txt: debug-report of CONFIG_FLAGS is now shorter
- docs/configure.txt: document --enable-keep_nut_report_feature and that the file can be installed [#1826]
- configure.ac: NUT_REPORT() the PACKAGE_VERSION (and GITREV if any) valid at the time of configure run [#1826]
- configure.ac: report GITREV (if any) valid at the time of configure run
- m4/nut_report_feature.m4, Makefile.am: install config.nut_report_feature.log if kept [#1826]
- m4/nut_report_feature.m4: standardize indentation, more M4 AS_IFs [#1826]
- drivers/richcomm_usb.c, drivers/nutdrv_atcl_usb.c, drivers/bcmxcp_usb.c: sync naming changes with drivers/libusb1.c [#1819, #1763, #1764]
- drivers/libusb1.c: bump version for libusb_get_device_address() vs. libusb_get_port_number() [#1819]
- tools/nut-scanner/scan_usb.c: sync naming and method changes with drivers/libusb1.c [#1819]
- drivers/libusb1.c: align device_addr/devnum printing (back) with their int types [#1819]

2.660 2023-01-21 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: fix systemd-tmpfiles detection from AC_CHECK_PROGS to AC_PATH_PROG for full pathname [#1822]
- configure.ac: set --prefix, --sbindir or --bindir into CONFIG_FLAGS according to older binaries found (if not provided otherwise) [#1826, #1709]
- configure.ac: do not pollute "SBINDIR" variable with tests for nut_enable_inplace_runtime, try PATH beside PREFIX, and generalize to try upsc if upsd is not found [#1826]
- configure.ac: typo fix for CONFIG_FLAGS [#1826]
- configure.ac: report determining CONFIG_FLAGS [#1709, #1826]
- configure.ac: track NUT_VERSION_DEPLOYED which we inherit from with --enable-inplace-runtime [#1826]
- configure.ac: update comments for systemd/nut-common-tmpfiles.conf.in
- common/common.c: refactor nut_report_config_flags() to allow for longer option lists for purposes of "configure --enable-inplace-runtime" [#1826]
- clients/Makefile.am, tools/nut-scanner/Makefile.am: Refactor nut_report_config_flags() from many programs into common.c [#1826, #1709] - bump libs version-info
- clients/upsc.c, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, common/common.c, drivers/main.c, include/common.h, server/upsd.c, tools/nut-scanner/nut-scanner.c: Refactor nut_report_config_flags() from many programs into common.c [#1826, #1709]
- configure.ac: do not track in CONFIG_FLAGS that we --disable-runtime-support, and only track once that we --enable-runtime-support [#1826]
- lib/libupsclient-config.in: comment that NUT_VERSION_MACRO in binaries may differ from PACKAGE_VERSION in the script [#1826]

2.661 2023-01-20 Neil Romig <neilromig@gmail.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: Update nut-driver-enumerator.sh.in Remove backslash from grep expression at line 836 to avoid grep warning of stray backslash.

2.662 2023-01-20 Greg Troxel <gdt@lexort.com>

- drivers/bestfortress.c: bestfortress: Switch logging to *func* Add a few comments about needed future work, but no code changes. Adjust to (surprising to me) non-POSIX file descriptor types.

2.663 2023-01-19 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: prepare nut-common-tmpfiles.conf.in subdir for @STATEPATH@/upssched, and update comments

2.664 2023-01-18 Jim Klimov <jimklimov+nut@gmail.com>

- autogen.sh, configure.ac, docs/config-prereqs.txt: Bump commented suggestions to automake-1.13 or newer Follow-up to #1821
- scripts/python/module/PyNUT.py.in: update for dual Py2/Py3 citizenship

- scripts/python/app/NUT-Monitor-py2gtk2.in, scripts/python/app/NUT-Monitor-py3qt5.in, scripts/python/module/PyNUT.py.in, scripts/python/module/README, scripts/python/module/test_nutclient.py.in: scripts/python/*: import definition and use-case of CheckUPSAvailable() from Fedora packaging patches Py2: https://src.fedoraproject.org/rpms/nut/blob/3c9fea3a359db592e3c7d25f f/nut-2.6.5-unreachable.patch Py3: https://src.fedoraproject.org/rpms/nut/blob/48685366900985696be8371d8deea6494ae36c43/-f/nut-2.6.5-unreachable.patch by Michal Hlavinka
- configure.ac, scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.se scripts/systemd/nut-server.service.in: scripts/systemd/*.service.in: parameterize systemd-tmpfiles program location
- scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in: scripts/systemd/*.service.in: ExecStartPre systemd-tmpfiles to facilitate install/upgrade with less fuss Inspired by Fedora Rawhide patches at https://src.fedoraproject.org/rpms/nut/blob/0a29e563e374f274f801270bce8eaab9 f/nut-2.6.3-tmpfiles.patch
- ci_build.sh: shuffle quotes in NUT_*_VARIANT=... reports for easier search in logs
- ci_build.sh: make maintainer-clean less noisy in CI if V=0 (automake clean.m4 echoes unconditionally)
- Makefile.am, clients/Makefile.am, common/Makefile.am, docs/Makefile.am, docs/man/Makefile.am, drivers/Makefile.am, include/Makefile.am, scripts/python/Makefile.am, server/Makefile.am, tests/Makefile.am, tests/NIT/Makefile.am, tools/nut-scanner/Mak */Makefile.am: use AM_V_at for optionally-quieter cleanup
- ci_build.sh: for developer builds, disable silent rules to see all problems better
- ci_build.sh: make cleanup less noisy
- ci_build.sh: make verbose builds actually verbose
- configure.ac: default to automake-"silent" rules for builds

2.665 2023-01-17 Edgar Fuß <ef@math.uni-bonn.de>

- drivers/libusb1.c: Use libusb_get_device_address(), not libusb_get_port_number() In USB device enumeration, when setting curDevice→Device, use libusb_get_device_address(), not libusb_get_port_number(). While there, rename bus to bus_num to avoid ambiguity. When printf()ing devnum (a size_t), use %zd, which is POSIX, not PRIuSIZE, which is not.

2.666 2023-01-16 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/app/nut-monitor.appdata.xml: nut-monitor.appdata.xml: add launchable=nut-monitor.desktop Inspired by https://salsa.d debian/nut/-/blob/a009ca10a327d7db383f5d7726091050ceb4d60f/debian/patches/appdata-launchable.patch from @bigon but adjusted for general version-agnostic dispatcher (py2 or py3, whatever is installed for this end-user deployment)
- tools/nut-scanner/scan_nut.c: simplify check for "port" similar to scan_avahi.c [#1815]
- tools/nut-scanner/scan_avahi.c: comments similar to scan_nut.c
- tests/NIT/nit.sh: verify that port number is suffixed by nut-scanner when needed [#1815]
- tools/nut-scanner/scan_nut.c: comment about "nutclient" driver value
- tools/nut-scanner/scan_nut.c: suffix non-standard port numbers to "port" in config [#1815]
- tools/nut-scanner/scan_nut.c: use uint16_t port to align with upsclient.c [#1815]
- tests/NIT/nit.sh: fix LD_LIBRARY_PATH for testcase_sandbox_nutscanner_list()
- tests/NIT/nit.sh: simplify bail-out pattern for nut-scanner to match on more OSes
- configure.ac: CONFIG_FLAGS: older ksh dislikes doublequotes inside backticks, all doublequoted outside ⇒ use $(...)

2.667 2023-01-15 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: fix support for CONFIG_FLAGS with spaces
- configure.ac: log the CLI options for restarted run when nut_enable_inplace_runtime
- tests/NIT/nit.sh: testcase_sandbox_nutscanner_list(): excuse lack of libupsclient.so/dll in path
- configure.ac, docs/configure.txt: configure.ac: consult CONFIG_FLAGS_DEPLOYED and CONFIG_FLAGS when --enable-inplace-runtime mode is used
- drivers/main.c: report CONFIG_FLAGS always when debugging [#1789]
- clients/upsc.c, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, docs/configure.txt, drivers/main.c, server/upsd.c, tools/nut-scanner/nut-scanner.c: NUT programs should report CONFIG_FLAGS for help/version requests with debug enabled Related-to: #1789
- configure.ac: lib/libupsclient-config is a SCRIPTFILE
- lib/libupsclient-config.in: report CONFIG_FLAGS
- lib/libupsclient-config.in: double-quote shell expansions
- tools/nut-scanner/scan_avahi.c: when bailing out of Avahi scan, do so comprehensibly for readers of error messages
- tests/NIT/nit.sh: add rudimentary nut-scanner tests
- tools/nut-scanner/nutscan-display.c: weave nutdevX numbering for different scan types when generating ups.conf with sanity-check warnings with a global var [#1810]

2.668 2023-01-15 Greg Troxel <gdt@lexort.com>

- drivers/bestfortress.c: driver/bestfortress: Fix serious shutdown bug and improve shutdown code - Move setting "ups.shutdown.delay" earlier so that it is available for `upsdrvctl shutdown`. This results in using that delay, instead of 1s. - Change shutdown delay to 20s from 10s, because that seems more common, and 10s feels too tight. - Add logging about shutdown. When run with `-k`, `ups.delay.shutdown` has apparently not been initialized. Fall back to 20, rather than 1, and log better.
- drivers/bestfortress.c: drivers/bestfortress: Rationalize and improve debugging - Define a debug logging plan - Add debug log calls - Adjust several existing calls This commit does not intend to modify behavior other than logging.

2.669 2023-01-14 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nutscan-display.c: nutscan_display_sanity_check_serial(): fix failsafe condition [#1810]
- tools/nut-scanner/nutscan-display.c: nutscan_display_sanity_check_serial(): if not null, one device entry exists [#1810]
- tools/nut-scanner/nutscan-display.c: nutscan_display_sanity_check_serial(): trace progress through logic [#1810]
- tools/nut-scanner/nutscan-display.c: trace entry into the display methods [#1810]
- NEWS, UPGRADING, docs/man/Makefile.am, docs/man/nut-scanner.txt, docs/man/nutscan.txt, docs/man/nutscan_add_option_to_de docs/man/nutscan_cidr_to_ip.txt, docs/man/nutscan_display_parsable.txt, docs/man/nutscan_display_sanity_check.txt, docs/-man/nutscan_display_sanity_check_serial.txt, docs/man/nutscan_display_ups_conf.txt, . . . /nutscan_display_ups_conf_with_sanity_c docs/man/nutscan_free_device.txt, docs/man/nutscan_get_serial_ports_list.txt, docs/man/nutscan_init.txt, docs/man/nutscan_new_dev docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_eaton_serial.txt, docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http_range.txt, tools/nut-scanner/nut scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-display.c: nut-scanner: report bogus and duplicate serial numbers [#1810]
- NEWS, docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: document notes about a build for Solaris 8 [#1736, #1738]
- NEWS: mention instructions for CentOS 6 native NUT 2.8.x builds [#1804]

2.670 2023-01-12 Jim Klimov <jimklimov+nut@gmail.com>

- .editorconfig: Revert ".editorconfig: try to neuter additional IntelliJ IDEA formatter [#894]" This reverts commit f9b195a4650766ef81c
- .editorconfig, AUTHORS, INSTALL.nut, NEWS, README, TODO, UPGRADING, docs/.editorconfig, docs/acknowledgements.txt, docs/cables/apc.txt, docs/cables/ge-imv-victron.txt, docs/cables/mgeups.txt, docs/cables/powerware.txt, docs/cables/repotec.txt, docs/config-prereqs.txt, docs/maintainer-guide.txt, docs/man/.editorconfig, docs/man/apcsmart.txt, docs/man/apcupsd-ups.txt, docs/man/asem.txt, docs/man/bcmxcp.txt, docs/man/bcmxcp_usb.txt, docs/man/belkinunv.txt, docs/man/bestfortress.txt, docs/man/blazer-common.txt, docs/man/blazer_usb.txt, docs/man/generic_modbus.txt, docs/man/liebert-esp2.txt, docs/man/macosx-ups.txt, docs/man/nut-ipmipsu.txt, docs/man/nut-scanner.txt, docs/man/nut_usb_addvars.txt, docs/man/nutdrv_qx.txt, docs/man/nutdrv_siemens_sitop.txt, docs/man/powerman-pdu.txt, docs/man/socomec_jbus.txt, docs/man/tripplite_usb.txt, docs/man/ups.conf.txt, docs/man/upsclient.txt, docs/man/upslog.txt, docs/nut.dict, docs/snmp-subdrivers.txt, docs/solaris-usb.txt, scripts/RedHat/README, scripts/Windows/DriverInstaller/README.txt, scripts/Windows/README, scripts/augeas/README, scripts/devd/README, scripts/hotplug/README, scripts/python/README, scripts/systemd/README, scripts/udev/README, scripts/ufw/README, tests/NIT/README, tools/nut-scanner/README: Apply .editorconfig driven cleanup to docs [#894]
- docs/man/nut_usb_addvars.txt: update comment for allow_duplicates [#1756]
- docs/man/nut_usb_addvars.txt: update comment for nut-scanner [#1790]
- .editorconfig: exempt itself from trailing whitespace (possibly needed for block-comment definitions) [#894]
- .editorconfig: try to neuter additional IntelliJ IDEA formatter [#894]
- docs/developers.txt, docs/nut.dict: docs/developers.txt: mention editorconfig [#894]
- .editorconfig: Elaborate on .editorconfig some more [#894]
- .editorconfig: Elaborate on .editorconfig [#894]
- .editorconfig: Introduce a basic .editorconfig file [#894]
- configure.ac: drop double-quotes from NUT_REPORT*() args [#1708]
- NEWS, docs/man/upsdrvctl.txt, drivers/upsdrvctl.c: drivers/upsdrvctl.c: add "-F"/"-B" args for drivers to be fore/back-grounded explicitly [#1759]
- drivers/upsdrvctl.c: whitespace fix in usage()
- docs/config-prereqs.txt: clarify lack of libusb-1.0 in CentOS 6
- autogen.sh: ensure quieter perl on system with invalid locale

2.671 2023-01-11 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac, m4/ax_check_compile_flag.m4: relax minimum autoconf to 2.63 (checked on CentOS6)
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: update for CentOS6
- scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in: network-online.target dependency [#749]
- UPGRADING, docs/nut.dict: UPGRADING: clarify improvements for "duplicate" USB device handling in NUT 2.8.1 [#1763, #1766, #1756, #1790]
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: clarify expected/got byte amounts (fix typo) [#1797]
- configure.ac: evaluate pkgconfigdir into a real pathname Have an needs further evaluation
- configure.ac: report enabling SMF support (consistent vs. reporting systemd already) [#1708]
- configure.ac: report installation paths for optional third-party integrations [#1708, #1668]
- configure.ac: simplify reporting of Python site-packages location [#1787, #1708]

- configure.ac: rearrange Python interpreter and path reporting [#1787, #1708]
- m4/nut_report_feature.m4: introduce NUT_REPORT_PATH_INTEGRATIONS and NUT_REPORT_SETTING_PATH_INTEGRAT chapter [#1708]
- m4/nut_check_python.m4: fix copy-paste typo in autoconf m4 markup [#1787]
- m4/nut_check_python.m4: use stricter conditions to check if PYTHONx values are invalid [#1787]
- drivers/apc-hid.c: comment 0xff86007c as "APCDelayBeforeReboot" vs "APCForceShutdown" uncertainty [#1796]
- data/driver.list.in: update for APC CS500 (from 2004) [#1776]

2.672 2023-01-10 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: report Python choices (if installing anything of it) [#1787]
- m4/nut_check_python.m4: if resolved versioned interpreter filename is not a strict expected pattern, fall back to search [#1787]
- m4/nut_check_python.m4: warn if using "PYTHON" via "/usr/bin/env" and not exact path [#1787]
- m4/nut_check_python.m4: if major version is known and expected, try to resolve the versioned interpreter starting from any initial name (check sanity afterwards, not before) [#1787]
- m4/nut_check_python.m4: add python 3.10 to searching list [#1787]
- m4/nut_check_python.m4: use pythonX-config if available to find the interpreter path [#1787]
- m4/nut_check_python.m4: add comments (and warning) about interpreter names without an exact version (2.* or 3.*) [#1787]
- docs/configure.txt: warn about delivering for both Pythons if two are present [#1787]
- ci_build.sh: copy-paste typo fix for CANBUILD_NIT_TESTS handling
- NEWS, drivers/libusb0.c, drivers/libusb1.c, tools/nut-scanner/scan_usb.c: nut-scanner: report same USB matching values as seeked by libusb{0,1}.c [#1790]
- NEWS, drivers/powercom.c: powercom driver should try harder to refresh data from device [#356]
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: bump version for allow_duplicates [#1756]

2.673 2023-01-09 Jim Klimov <jimklimov+nut@gmail.com>

- docs/configure.txt: warn about naming "relaxed" python interpreter versions [#1787]
- m4/nut_check_python.m4: for args like --with-python=python3 try to find build environment dictated pathname first, fall back to "env" second [#1787] Note: this does not apply to --with-python="prog args" as a bit too complex for now
- m4/nut_check_python.m4, docs/configure.txt: detect not-specified PYTHON2/PYTHON3 from PYTHON first (if version is suitable) [#1787]
- m4/nut_check_python.m4: if --with-python2/3 are not specified, use exact path from --with-python (if available) to match its site-packages [#1787]
- docs/configure.txt: clarify that autogen.sh and configure may default to different PYTHON versions [#1787]
- m4/nut_check_python.m4: actually fail if a Python version was required but not found [#1787]
- configure.ac, m4/nut_check_python.m4: refactor with NUT_CHECK_PYTHON_DEFAULT [#1518]
- docs/configure.txt: current configure script does not use "PYTHON{,2,3}" envvars [#1787]
- docs/configure.txt: document python, pynut and nut_monitor related options and autogen.sh fuss about it [#1787]
- docs/configure.txt: whitespace fixes
- docs/configure.txt: hint for builds of git checkouts [#1750]

2.674 2023-01-08 Greg Troxel <gdt@lexort.com>

- conf/upsd.conf.sample: upsd.conf.sample: Clarify LISTEN/firewall comments

2.675 2023-01-07 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: fix if/ifdef for configure-detected methods [#1590, #1739]
- NEWS, clients/upsclient.h, clients/upsmon.c, clients/upsmon.h, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/nut.dict: upsmon: Introduce POLLFAIL_LOG_THROTTLE_MAX [#506]
- clients/upsmon.c: cosmetic fixes
- NEWS, docs/FAQ.txt, docs/config-notes.txt, docs/man/upsd.txt: fixup! scripts/systemd/nut-server.service.in, scripts/systemd/nut-monitor.service.in: provide an Alias for convenience (upsd, upsmon)
- docs/configure.txt: document --with-libsystemd related options [#1590]
- common/common.c: optionally define DEBUG_SYSTEMD_WATCHDOG to ignore upsnotify_reported_watchdog_systemd hush-flag when troubleshooting [#1590]
- common/common.c: set WATCHDOG_PID along with MAINPID and re-enable not-posting the pings if expected PID is not ours [#1590]
- common/common.c, m4/nut_check_libsystemd.m4: use sd_notify_barrier() if available after reporting MAINPID to systemd [#1590]
- configure.ac, docs/man/upsd.txt: configure.ac: run systemd/nut-server.service both with a PID file and without forking [#1781]
- scripts/systemd/nut-server.service.in, scripts/systemd/nut-monitor.service.in: use Restart=on-failure so that clean intentional exit (e.g. by signal handling) does not revive it [#1781]

2.676 2023-01-06 Yifeng Li <tomli@tomli.me>

- drivers/huawei-ups2000.c: huawei-ups2000.c: log error code/string for Modbus failures Currently, failures in modbus_read_registers() or modbus_write_registers() do not show any error code or message in the log, making it difficult to debug. This commit logs the error code, errno, and modbus_strerror() if an error occurs. Furthermore, the log level of a fatal warning has been changed from LOG_WARNING to LOG_ERR (LOG_WARNING was previously used due to an oversight).

2.677 2023-01-06 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: upsnotify(): opportunistically post sd_notify() even if "WATCHDOG_PID" mismatches [#1590]
- common/common.c: upsnotify(): log checking "WATCHDOG_USEC" and "WATCHDOG_PID" (once) [#1590]
- common/common.c: upsnotify(): log setting MAINPID [#1590]
- common/common.c: upsnotify(): hush watchdog-related logging further [#1590]
- configure.ac, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in: Suggest default systemd NotifyAccess settings for upsd, upsmon and drivers [#1590]
- common/common.c: upsnotify(): revise "snprintf needed more than..." messages [#1590]
- configure.ac: comment a TODO: consider calling "systemd-notify" if have no sd_notify() [#1590]
- configure.ac, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in: Suggest default systemd watchdog settings for upsd, upsmon and drivers [#1590]
- NEWS, UPGRADING, docs/nut.dict: NEWS, UPGRADING: added libsystemd notification support [#1590]

- NEWS, UPGRADING: cosmetic fixes
- configure.ac, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in: configure.ac, scripts/systemd/*.in: optionally support Type=notify for upsd, upsmon and drivers [#1590]
- scripts/systemd/nut-server.service.in, scripts/systemd/nut-monitor.service.in: provide an Alias for convenience (upsd, upsmon)
- drivers/main.c: make use of new upsnotify() [#1590]
- server/upsd.c: make use of new upsnotify() [#1590]
- clients/upslog.c: make use of new upsnotify() [#1590]
- clients/upsmon.c: make use of new upsnotify() [#1590]
- common/common.c: parsepid(): handle NULL input reasonably on all platforms [#1590]
- drivers/libusb1.c: handle non-zero libusb port numbers as valid [#1774]

2.678 2023-01-06 Greg Troxel <gdt@lexort.com>

- docs/man/upsmon.txt: Explain POWERDOWNFLAG Document that it is removed at successful startup

2.679 2023-01-05 Jim Klimov <jimklimov+nut@gmail.com>

- common/Makefile.am, common/common.c, include/common.h: common/common.c: add upsnotify() method into libcommon.la (but not libcommonclient) [#1590]
- configure.ac, drivers/Makefile.am: use LIBI2C_LIBS to avoid pulling -li2c everywhere
- configure.ac, docs/config-prereqs.txt, m4/nut_check_libsystemd.m4: m4/nut_check_libsystemd.m4, configure.ac: On systemd aware OSes, optionally integrate with sd_notify() [#1590]
- NEWS: mention update of NUT COPYING file [#1758]
- NEWS, docs/man/nut_usb_addvars.txt, drivers/libusb0.c, drivers/libusb1.c: Introduce an `allow_duplicates` flag for common USB matching options [#1756]
- drivers/libusb0.c, drivers/libusb1.c, drivers/usb-common.c: drivers/libusb{0,1}.c, drivers/usb-common.c: update comments in device matcher code
- drivers/usb-common.h: update amount of supported possibly unique fields to try for device matching
- drivers/libusb0.c, drivers/libusb1.c, drivers/usb-common.c: drivers/libusb{0,1}.c, drivers/usb-common.c: update comments in device matcher code

2.680 2023-01-05 Greg Troxel <gdt@lexort.com>

- docs/man/upsdrvctl.txt: docs/man: Clarify upsdrvctl shutdown
- docs/man/bestfcom.txt, docs/man/bestfortress.txt, docs/man/bestups.txt: docs/man: Clarify Best driver support for Fortress LI660
- MAINTAINERS: add pkgsrc

2.681 2023-01-05 Edgar Fuß <ef@math.uni-bonn.de>

- drivers/libusb1.c: Set curDevice→Device during USB enumeration During USB enumeration, set curDevice→Device. Try to use libusb1's port number obtained by libusb_get_port_number(), but that seems useless at least on NetBSD. So, use devnum (the enumeration loop variable), which at least makes two identically looking USB UPSen distinguishable again. Maybe we want to add a Port property set to what libusb_get_port_number() reports? Previously missed during refactoring to libusb1.
- drivers/nutdrv_qx_masterguard.c: Add experimental prefix missed in 7ef2874e81 drivers/nutdrv_qx_masterguard.c: Add "experimental." prefix in masterguard_claim(). Needed because that prefix had been added (in 7ef2874e81952fac532014a8840a217cf1d63 to the variable names in the masterguard_qx2nut[] table.

2.682 2023-01-04 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS: announce new "driver.state" feature [#1767]
- docs/nut-names.txt, drivers/adelsystem_cbi.c, drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/generic_modbus.c, drivers/main.c, drivers/nutdrv_qx.c, drivers/powerman-pdu.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usbhid-ups.c: driver/*.c: report reconnection attempts as a "driver.state" [#1767]
- drivers/main.c: report where driver.state changes from init.* to just before regular work [#1767]
- docs/nut-names.txt, docs/nut.dict, drivers/main.c: drivers/main.c, docs/nut-names.txt: introduce "driver.state" tracking [#1767]
- docs/nut-names.txt: update with final RFC 9271 reference
- docs/nut-names.txt: update WITH_UNMAPPED_DATA_POINTS [#1699, #1742]
- drivers/richcomm_usb.c: hide from help() the USB matching settings that are not currently handled by the driver [#1768]
- docs/man/richcomm_usb.txt: hide from docs the USB matching settings that are not currently handled by the driver [#1768]
- docs/man/nut_usb_addvars.txt: document usb_set_altinterface setting (from libusb{0,1}.c)
- NEWS: man pages refactored for USB matching options description [#1766]
- docs/man/usbhid-ups.txt: refactor to include nut_usb_addvars.txt
- docs/man/nut_usb_addvars.txt: update with reasoning for nut_usb_addvars settings from usbhid-ups.txt
- docs/man/tripplite_usb.txt: refactor to include nut_usb_addvars.txt
- docs/man/nut_usb_addvars.txt: update with references to lsusb and regex from tripplite_usb.txt
- docs/man/richcomm_usb.txt, docs/man/riello_usb.txt: refactor to include nut_usb_addvars.txt [#1763]
- docs/man/nutdrv_qx.txt: refactor to include nut_usb_addvars.txt
- docs/man/nut_usb_addvars.txt: pick up "port" mention from nutdrv_qx.txt and expand on it
- drivers/nutdrv_atcl_usb.c: report device_match_func() failure and refer to nutdrv_qx more prominently
- docs/man/nutdrv_atcl_usb.txt: this driver uses a very custom device-matcher with only a vendor string
- NEWS, drivers/Makefile.am, drivers/nutdrv_atcl_usb.c: Revert "drivers/nutdrv_atcl_usb.c: upsdrv_makevartable(): refer to nut_usb_addvars() [#1754]" This reverts commit 3b1b921669da9ca7f360cbcfa9645fa6816f66ed. This driver uses a very custom device-matcher.
- docs/man/bcmxcp_usb.txt: mention lack of support for common nut_usb_addvars [#1764]
- docs/man/Makefile.am, docs/man/blazer-common.txt, docs/man/nut_usb_addvars.txt, docs/nut.dict: Introduce docs/man/nut_usb_add (initial content from blazer-common.txt with updated formatting)
- NEWS: mention the fix for USB matching options fix for some drivers

- drivers/riello_usb.c: upsdrv_makevartable(): refer to nut_usb_addvars() [#1754]
- drivers/Makefile.am, drivers/richcomm_usb.c: drivers/richcomm_usb.c: upsdrv_makevartable(): refer to nut_usb_addvars() [#1754]
- drivers/Makefile.am, drivers/nutdrv_atcl_usb.c: drivers/nutdrv_atcl_usb.c: upsdrv_makevartable(): refer to nut_usb_addvars() [#1754]
- drivers/blazer_usb.c, drivers/nutdrv_qx.c: upsdrv_makevartable(): cosmetic fixes
- drivers/bcmxcp.h: fix include-fencing macros
- configure.ac: make default POWERDOWNFLAG configurable [#529] - escape more for autotools
- configure.ac, scripts/Makefile.am, scripts/RedHat/.gitignore, scripts/RedHat/ups, scripts/RedHat/ups.in, scripts/RedHat/upsd, scripts/RedHat/upsd.in, scripts/RedHat/upsmon, scripts/RedHat/upsmon.in: scripts/Redhat/*: drop older scripts with hardcoding, modernize .in templates for POWERDOWNFLAG and similar config options
- configure.ac: revise configuration of NUT path location variables and their substitutions

2.683 2023-01-03 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/belkinunv.txt: modernize about "upsmon -K" and POWERDOWNFLAG or explicit /etc/killpower [#529]
- docs/FAQ.txt: modernize about "upsmon -K" and POWERDOWNFLAG or explicit /etc/killpower [#529]
- NEWS, conf/upsmon.conf.sample.in, configure.ac, docs/configure.txt, docs/nut.dict: configure.ac and many others: make default POWERDOWNFLAG configurable [#529] Closes: #529
- server/conf.c, server/conf.h, server/upsd.c: server/upsd.c, server/conf.c: remember debug level specified in command line args, may be useful in reload [#1761] Closes: #1761
- clients/upsmon.c: do not report initial debug level twice
- clients/upsmon.c: remember debug level specified in command line args, may be useful in reload [#1761]
- clients/upsmon.c: "upsmon -K" should not die if daemon is running [#1680] Closes: #1680
- clients/upsmon.c: debug-trace notification activity [#1760]

2.684 2023-01-02 Jim Klimov <jimklimov+nut@gmail.com>

- COPYING, docs/nut.dict: COPYING: update to acknowledge codebase picked up from BSD, curl and CC BY-SA sources over time
- docs/man/ups.conf.txt, docs/man/upsdrvctl.txt, docs/man/upsdrvsvcctl.txt, drivers/upsdrvctl.c, scripts/systemd/nut-driver@.service.in: drivers/upsdrvctl.c, scripts/systemd/nut-driver@.service.in: add support for NUT_IGNORE_NOWAIT [#1753]
- UPGRADING: highlight nut-common.tmpfiles(.in) ⇒ nut-common-tmpfiles.conf(.in) rename and other changes since NUT v2.8.0 release
- autogen.sh, configure.ac, scripts/systemd/.gitignore, scripts/systemd/Makefile.am: Rename generated nut-common.tmpfiles(.in) ⇒ nut-common-tmpfiles.conf(.in) to install a *.conf pattern [#1754] Follow-up for #1030, #1037, #1117 May be related to #1712
- NEWS, docs/nut.dict: NEWS: reference arcane installation know-how for Solaris 8 [#1736]
- NEWS: Clarified documentation in codebase according to end-user feedback for NUT v2.8.1 release
- INSTALL.nut: clarify that the instruction is for tarballs (hint for builds of git checkouts) [#1750]
- docs/man/upsmon.txt: clarify that FSD latches until upsd is restarted [#1721]

- docs/man/upsmon.txt: rearrange paragraphs with related content [#1721]
- tools/nut-scanner/nutscan-init.c: adjust WIN32 shared library detection for SNMP and NEON [#1735] At least as of Appveyor CI builds and their DLL naming both on MSYS2 MinGW "semi-native" builds, and linux mingw (libneon).
- tools/nut-scanner/nutscan-init.c: annotate blocks for shared library detection

2.685 2022-12-28 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: testcase_upsd_allow_no_device(): give VERY laggy systems (e.g. build farm swapping) another chance
- ci_build.sh: apply CCACHE PATH discovery to mingw builds
- ci_build.sh: cosmetic fix
- ci_build.sh: report PATH and CCACHE decisions in build host settings

2.686 2022-12-26 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/augeas/Makefile.am: clean away nutupsconf.aug.in.AUTOGEN_WITHOUT if it appears
- configure.ac: if default "python" was not found, use py2 or py3; avoid keeping "no" as an answer [#1736]
- m4/nut_check_python.m4: recognize python-3.6 too
- include/common.h: size_t
- tests/NIT/nit.sh: avoid "sed -i" - safer approach [#1736]

2.687 2022-12-25 Jim Klimov <jimklimov+nut@gmail.com>

- tools/gitlog2changelog.py.in: tools/gitlog2changelog.py: avoid prefixing file list to messages whose commit comment starts with equivalent list
- tools/gitlog2changelog.py.in: tools/gitlog2changelog.py: support Python 3.6 (and older 3.x) regarding UTF-8 content of git changelog
- drivers/belkin-hid.c, drivers/cps-hid.c, drivers/ever-hid.c, drivers/idowell-hid.c, drivers/liebert-hid.c, drivers/powercom-hid.c, drivers/tripplite-hid.c: drivers/*-hid.c: fence WITH_UNMAPPED_DATA_POINTS [#1699]
- drivers/apc-ats-mib.c, drivers/apc-epdu-mib.c, drivers/apc-mib.c, drivers/apc-pdu-mib.c, drivers/compaq-mib.c, drivers/delta_ups-mib.c, drivers/eaton-ats16-nm2-mib.c, drivers/eaton-ats16-nmc-mib.c, drivers/eaton-ats30-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/eaton-pdu-nlogic-mib.c, drivers/emerson-avocent-pdu-mib.c, drivers/hpe-pdu-mib.c, drivers/hpe-pdu3-cis-mib.c, drivers/huaw mib.c, drivers/raritan-px2-mib.c: drivers/*-mib.c: fence WITH_UNMAPPED_DATA_POINTS [#1699]
- NEWS, configure.ac, docs/configure.txt, docs/hid-subdrivers.txt, docs/snmp-subdrivers.txt, scripts/subdriver/gen-snmp-subdriver.sh, scripts/subdriver/gen-usbhid-subdriver.sh: configure.ac, scripts/subdriver/gen-*.sh: introduce WITH_UNMAPPED_DATA_POINTS flag [#1699]
- tools/gitlog2changelog.py.in: tools/gitlog2changelog.py: avoid prefixing file list to messages whose commit comment starts with equivalent list
- tools/gitlog2changelog.py.in: tools/gitlog2changelog.py: support Python 3.6 (and older 3.x) regarding UTF-8 content of git changelog

2.688 2022-12-22 Jim Klimov <jimklimov@gmail.com>

- common/common.c, common/snprintf.c, configure.ac, drivers/mge-hid.c: configure.ac: fix AC_CHECK_FUNCS ⇒ AC_CHECK_DE where we care for includes [#1738]

2.689 2022-12-22 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac, tests/.gitignore, tests/Makefile.am: configure.ac, tests/Makefile.am: introduce and check for REQUIRE_NUT_STRARG flag [#1736, #1737]
- tests/nutlogtest.c: reword message so we see it even if libc printf("%s", NULL) does a null-dereference [#1736]
- tests/NIT/nit.sh: avoid PYTHON=no [#1736]
- tests/NIT/nit.sh: avoid "sed -i" [#1736]
- tests/NIT/nit.sh: dumb down shell syntax for older Solaris interpreter [#1736]
- tools/nut-usbinfo.pl: old typo fix (overlaid file variable and file name)
- configure.ac, tools/nut-scanner/Makefile.am: if we HAVE_SEMAPHORE, some systems may need additional SEMLIBS [#1736]
- tools/Makefile.am: avoid spurious error messages when PYTHON=no [#1736]
- scripts/augeas/Makefile.am: avoid spurious error messages when PYTHON=no [#1736]
- drivers/mge-hid.c: provide a fallback round() [#1736]
- tests/getvaluetest.c: do not directly include stdint.h (not ubiquitous) [#1736]
- drivers/pijuice.c: do not directly include stdint.h (not ubiquitous) [#1736]
- drivers/eaton-pdu-marlin-helpers.c: do not directly include stdint.h (not ubiquitous) [#1736]
- drivers/adelsystem_cbi.h: drivers/adelsystem_cbi.c: do not directly include stdint.h (not ubiquitous) [#1736]
- common/strptime.c: do not always directly include stdint.h (not ubiquitous) [#1736]
- drivers/riello.c, drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c: drivers/riello*.{c,h}: do not directly include stdint.h (not ubiquitous) [#1736]
- common/strnlen.c: untie from freeBSD specifics [#1736]
- common/Makefile.am, common/strnlen.c, configure.ac: configure.ac, common/strnlen.c: Detect and provide a fallback strnlen() if needed [#1736]
- common/common.c: fix pragmas for systems without a UINTPTR_MAX defined [#1736]
- NEWS: autogen.sh support for CONFIG_SHELL [#1736]
- autogen.sh: support CONFIG_SHELL envvar to embed into generated configure script (and syntax-check with it) [#1736]

2.690 2022-12-21 Jim Klimov <jimklimov+nut@gmail.com>

- autogen.sh: enhance report of failed syntax checks [#1736]
- autogen.sh: dumb syntax down for xpg/ksh88 or older [#1736]
- tools/nut-usbinfo.pl: dumb syntax down for perl 5.005 (Solaris 8 compat) [#1736]

2.691 2022-12-20 Clappier, Eric <EricClappier@eaton.com>

- drivers/eaton-pdu-nlogic-mib.c: Fix discovery issue with Eaton pdu nlogic

2.692 2022-12-08 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: update dict

2.693 2022-12-02 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c: refactor probing/signaling old instance into one handling/reporting codebase [#1721]
- server/upsd.c: refactor probing/signaling old instance into one handling/reporting codebase [#1721]
- clients/upsmon.c: generic report if we "Failed to signal the currently running daemon" [#1721]
- server/upsd.c: generic report if we "Failed to signal the currently running daemon" [#1721]

2.694 2022-12-01 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: clarify inability to find OS user info (vs. NUT user) [#1721]
- docs/FAQ.txt, docs/config-notes.txt, docs/man/upsd.txt: docs/*.txt: clarify "upsd -c reload" vs. PID file (and systemd) [#1721]
- conf/upsmon.conf.sample.in: clarify RUN_AS_USER as OS-defined account for upsmon [#1721]
- conf/ups.conf.sample, conf/upsd.users.sample, conf/upsmon.conf.sample.in: conf/*.sample: standardize on "monuser" as example NUT-defined account for upsmon [#1721]
- clients/upsmon.c: consider HAVE_SYSTEMD to report if PID file was missing [#1721]
- server/upsd.c: consider HAVE_SYSTEMD to report if PID file was missing [#1721]
- configure.ac: refactor definition of HAVE_SYSTEMD so we can use it in C code [#1721]
- scripts/systemd/nut-server.service.in: re-document use of PID file, for reloads to work [#1721]
- common/common.c: become_user(): cosmetic/messaging: discern starting as not-root vs. already the requested user [#1718] Closes: #1718
- NEWS, UPGRADING: reference GitHub PR numbers for snmp-ups updates [#1715, #1716]

2.695 2022-12-01 Jim Klimov <jim@jimklimov.com>

- .github/workflows/codeql.yml: Update codeql.yml Drop python for now
- .github/workflows/codeql.yml: Create codeql.yml LGTM.com is being deprecated in favor of equivalent GitHub Action by same team * https://github.blog/2022-08-15-the-next-step-for-lgtm-com-github-code-scanning/ * https://docs.github.com/en/code-security/code-scanning/automatically-scanning-your-code-for-vulnerabilities-and-errors/setting-up-code-scanning-for-a-repository#setting-up-code-scanning-manually

2.696 2022-11-28 Tiph <titi__13@hotmail.com>

- drivers/mge-hid.c: Update mge-hid.c fixed conversion issue

2.697 2022-11-27 Florian Weimer <fweimer@redhat.com>

- m4/ax_c_pragmas.m4: Fix several issues with the AX_C_PRINTF_STRING_NULL check Adjust quoting in the AX_C_PRINTF_ST definition. Switch to strstr and include <string.h> instead of <strings.h>. Add missing braces and parentheses. Use double-quote for string literals. The test now reports success on glibc, as expected.
- m4/ax_c_*attribute*.m4: Fix AX_C_*ATTRIBUTE* configure check to call the right function The function foo is defined in the C fragment, but the func function is undeclared. This avoids relying on an implicit function declaration, a C language feature that was removed in 1999.

2.698 2022-11-25 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: comment about nut_inplace_user detection from *.pc files [#1714]
- configure.ac: fix inplace sysconfdir detection [#1714]
- configure.ac: clarify "checking requested X" ⇒ default/specified vs "checking setting X" ⇒ final value [#1714]
- configure.ac: try to detect nut_inplace_group and nut_inplace_user from existing configs [#1714]
- configure.ac: avoid changing permissions of */tmp and /dev/shm with nut-common.tmpfiles
- configure.ac: use PIDPATH="/run" if it is so on the build system
- NEWS, UPGRADING: document @ALTPIDPATH@ vs. @PIDPATH@ (and removal of @PIDPATH@/nut ambiguity) [#1712]
- scripts/Aix/nut.init.in, scripts/HP-UX/postinstall.in, scripts/Solaris/nut-server.xml.in, scripts/Solaris/postinstall.in, scripts/Solaris/postremove.in, scripts/Solaris/svc-nut-monitor.in, scripts/Solaris/svc-nut-server.in: Reference init-script and packaging templates: eradicate "@PIDPATH@/nut" ambiguity in favor of "@ALTPIDPATH@" (and explicitly ensure "@PIDPATH@" where applicable) [#1712]
- configure.ac: AC_SUBST(ALTPIDPATH)
- configure.ac: report "$prefix"
- m4/nut_report_feature.m4: fix detection of chapter "1" and other nuances
- m4/nut_report_feature.m4: align reports with tabulation
- configure.ac: use NUT_REPORT_TARGET [#1708]
- m4/nut_report_feature.m4: add NUT_REPORT_TARGET [#1708]
- m4/nut_report_feature.m4: fix comments
- m4/nut_report_feature.m4: refactor NUT_REPORT_FILE() for second-level headings and less file-openings
- configure.ac, docs/configure.txt: configure.ac: clarify that PIDPATH **is** for NUT directly (privileged daemons) [#123, #1712]
- configure.ac: refactor to use NUT_REPORT_SETTING_PATH() to summarize separately from other toggles [#1708 follow-up]
- m4/nut_report_feature.m4: add separate chapter for NUT_REPORT_PATH() and NUT_REPORT_SETTING_PATH() to populate it
- .gitignore, Makefile.am, m4/nut_report_feature.m4: m4/nut_report_feature.m4: refactor to hold and append different summary chapters in different files [#1708 follow-up]
- m4/nut_report_feature.m4: change markup of usage() comments to avoid m4 surprises
- ci_build.sh: in case of success for default build, remind the chosen config.nut_report_feature.log settings
- Makefile.am: install-win-bundle-thirdparty: fix indentations
- configure.ac: use NUT_REPORT_SETTING() for various path tunables
- configure.ac: fix generation of systemd/nut-common.tmpfiles Should have no "nut" subdir for STATEPATH and ALTPIDPATH Follow-up for #1030, #1037, #1117 May be related to #1712
- configure.ac: NUT_REPORT_SETTING() for RUN_AS_USER and RUN_AS_GROUP
- configure.ac: change AS_HELP_STRINGs and some other comments/messages for STATEPATH and PIDPATH to clarify
- m4/nut_report_feature.m4: introduce NUT_REPORT_SETTING() . . . and comment arguments for NUT_REPORT_FEATURE()
- NEWS, ci_build.sh: NEWS: add `./ci_build.sh inplace` operation shortcut [#1714]

- ci_build.sh: add support for INPLACE_RUNTIME=true
- configure.ac: move checking for better default user/group based on current system circumstances down, to just before we use them
- configure.ac: report if checking for better sysconfdir/user/group and how it went
- NEWS: update for `configure --enable-inplace-runtime` [#1714]
- docs/configure.txt, docs/nut.dict: docs/configure.txt: update for `--enable-inplace-runtime` [#1714]
- configure.ac: impact default sysconfdir by --enable-inplace-runtime
- configure.ac: change AS_HELP_STRINGs for hotplugdir, udevdir and devddir to report current defaults (not arbitrary suggestions)
- configure.ac: introduce --enable-inplace-runtime and impact default RUN_AS_USER and RUN_AS_GROUP by that
- configure.ac: move final processing of --with-user and --with-group to end of script
- configure.ac: comment initial settings for RUN_AS_* and PIDPATH

2.699 2022-11-25 Arnaud Quette <ArnaudQuette@eaton.com>

- NEWS, drivers/snmp-ups.c: snmp-ups: fix "Warning: excessive poll failures" Fix that long standing issue, which was tied to non-existent OIDs, not well handled in some part of the driver Closes: #743

2.700 2022-11-24 Arnaud Quette <ArnaudQuette@eaton.com>

- docs/nut.dict: Spelling dictionnary completion
- NEWS, UPGRADING, docs/man/snmp-ups.txt, drivers/Makefile.am, drivers/{powerware-mib.c ⇒ eaton-ups-pwnm2-mib.c}, drivers/eaton-ups-pwnm2-mib.h, drivers/eaton-ups-pxg-mib.c, drivers/{powerware-mib.h ⇒ eaton-ups-pxg-mib.h}, drivers/snmp-ups.c: snmp-ups: split Eaton pw and pxgx_ups implementation To better manage the slight nuances (especially in ups.status), between Eaton UPSs, implementation file was split in 2 files, and mib name were renamed from *pw* to *eaton_pw_nm2*, and from *pxgx_ups* to *eaton_pxg_ups* Thanks to Quentin Renard (Eaton) for discovering the bug

2.701 2022-11-22 Jim Klimov <jimklimov@gmail.com>

- NEWS: added "hpe-pdu3-cis-mib" snmp-ups subdriver [#1713]

2.702 2022-11-22 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/hpe-pdu3-cis-mib.c: fix reference to WITH_UNMAPPED_DATA_POINTS This feature was only proposed, not yet implemented in main codebase
- docs/nut.dict: update for #1713

2.703 2022-11-22 Arnaud Quette <ArnaudQuette@eaton.com>

- data/driver.list.in, drivers/Makefile.am, drivers/hpe-pdu3-cis-mib.c, drivers/hpe-pdu3-cis-mib.h, drivers/snmp-ups.c: snmp-ups: add support for HPE G2 Metered & Switched PDU This support is unitary (no daisychain support yet). Also note that, due to SNMP v1 implementation limitations on this device, you should prefer SNMP v3 to get both read and write rights

2.704 2022-11-21 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS: update for snmp-ups fix with wrong sysOID responses [#1710]

2.705 2022-11-21 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/snmp-ups.c: Fix sysOID retrieval on non-compliant device Some SNMP agent (device) wrongly return the sysOID value as a string instead of an OID. This breaks the initial sysOID matching system of the driver

2.706 2022-11-16 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac, m4/nut_report_feature.m4: m4/nut_report_feature.m4: report configure invocation args
- NEWS, docs/nut.dict: NEWS: snmp-ups added "eaton-pdu-nlogic-mib" subdriver [#1698]

2.707 2022-11-15 Jim Klimov <jimklimov@gmail.com>

- Makefile.am: Update Makefile.am maintainer-clean the config.nut_report_feature.log

2.708 2022-11-15 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/eaton-pdu-nlogic-mib.c: provide default (NULL) for "device.part"
- appveyor.yml: publish config.nut_report_feature.log artifact
- m4/nut_report_feature.m4: NUT_REPORT_COMPILERS: separate cosmetic colon from reported values
- scripts/Windows/build-mingw-nut.sh: parameterize ARCH_PREFIX
- scripts/Windows/build-mingw-nut.sh, ci_build.sh: --enable-keep_nut_report_feature in CI builds
- ci_build.sh: --enable-keep_nut_report_feature in CI builds
- m4/nut_report_feature.m4: make config.nut_report_feature.log contents more asciidoc-friendly
- m4/nut_report_feature.m4: start config.nut_report_feature.log with title, not empty line
- m4/nut_report_feature.m4, configure.ac: introduce --enable-keep_nut_report_feature
- m4/nut_report_feature.m4, configure.ac: separate NUT_REPORT_COMPILERS from NUT_PRINT_FEATURE_REPORT
- m4/nut_report_feature.m4: update headings in generated config.nut_report_feature.log sections
- configure.ac: fix behavior for customized paths in systemdsystemunitdir/systemdshutdowndir/systemdtmpfilesdir
- configure.ac: fix mis-diagnosed "--with-systemdsystemunitdir=yes was requested, but PKG_CONFIG..." when it was not requested in fact
- .gitignore, m4/nut_report_feature.m4: m4/nut_report_feature.m4: Rename conf_nut_report_feature artifact to config.nut_report_featu
- m4/nut_report_feature.m4: save compiler settings into "conf_nut_report_feature" too
- docs/nut.dict: update for nut-website::projects.txt
- docs/nut.dict: update dict
- docs/nut.dict: update for nut-website::projects.txt

2.709 2022-11-15 Arnaud Quette <arnaud.quette@gmail.com>

- drivers/eaton-pdu-nlogic-mib.c: Update eaton-pdu-nlogic-mib.c Fix a typo in data flags

2.710 2022-11-12 Jim Klimov <jimklimov+nut@gmail.com>

- appveyor.yml: disable required forced rebuilds of netsnmp (and debug of build-mingw-prereqs.sh) [#1475]

2.711 2022-11-11 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/build-mingw-prereqs.sh: use curl if wget fails from sourceforge [#1475]
- appveyor.yml: temporarily force rebuild of netsnmp
- scripts/Windows/build-mingw-prereqs.sh: handle possibly missing SUDO differently [#1475]
- appveyor.yml: use scripts/Windows/build-mingw-prereqs.sh [#1475]
- scripts/Windows/build-mingw-prereqs.sh: Add scripts/Windows/build-mingw-prereqs.sh [#1475]
- appveyor.yml: fix typo
- appveyor.yml: fix comment for config.log artifact
- appveyor.yml: try to ensure presence of net-snmp in MSYS2 MinGW builds [#1475]
- scripts/Windows/README: update DLDIR and WSDIR definitions
- scripts/Windows/README: update *sudo* suggestions for Windows MSYS2 builds [#1475]
- scripts/Windows/README: update envvar setting suggestions for Windows MSYS2 builds [#1475]

2.712 2022-11-10 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README, docs/config-prereqs.txt: document missing bits for net-snmp in MSYS2 [#1475]
- scripts/Windows/README: do not hardcode /usr/$ARCH when we have $PREFIX
- docs/nut-names.txt: clarify "unmapped.x.y" not-quite-namespace

2.713 2022-11-09 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/augeas/gen-nutupsconf-aug.py.in: skip a false-positive from Augeas driver options

2.714 2022-11-09 Clappier, Eric <EricClappier@eaton.com>

- data/driver.list.in: Add eaton (nLogic) pdu in driver.list
- drivers/Makefile.am, drivers/eaton-pdu-nlogic-mib.c, drivers/eaton-pdu-nlogic-mib.h, drivers/snmp-ups.c: Integrate nLogic pdu (snmp)

2.715 2022-11-06 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: update freeipmi -largp install for OpenBSD (6.4 \+ 6.5 checked)

2.716 2022-11-03 Jim Klimov <jimklimov@gmail.com>

- drivers/riello_usb.c: Update riello_usb.c Log that guesstimation will be used instead of device readings (if any)
- docs/man/riello_usb.txt: Update riello_usb.txt Use "guesstimate" as common NUT term for future searches
- docs/nut.dict: Update nut.dict
- NEWS: Update NEWS

2.717 2022-11-03 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/riello_usb.c: testvar("localcalculation") only once, use cached int in the loop [#1692]
- drivers/riello_usb.c: do not set bogus "ups.temperature" as 0, log low-prio message instead [#1692]
- drivers/riello_usb.c: only log once about possibly missing battery.charge and battery.runtime [#1692]
- NEWS, docs/man/riello_usb.txt: fix "docs/man/riello_usb.txt" description [#1692]
- drivers/riello_usb.c: deduplicate message about possibly missing battery.charge and battery.runtime [#1692]
- drivers/riello_usb.c: fix indentation [#1692]

2.718 2022-11-02 Jim Klimov <jimklimov@gmail.com>

- NEWS: we log uid/gid/chroot changes since 2.8.1 [#1694]

2.719 2022-11-01 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: expand permissions for NUT_CONFPATH/*.conf if started as root (tested daemons cannot read them otherwise)
- common/common.c: chroot_start(): log entering chroot jail (or inability to do so)
- common/common.c: become_user(): log change of UID/GID (or inability to do so)

2.720 2022-10-31 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict
- docs/nut.dict: Update nut.dict
- docs/man/riello_usb.txt: Update riello_usb.txt Added localcalculation flag description
- NEWS: added localcalculation flag for riello_usb

2.721 2022-10-30 amikot <3470285+amikot@users.noreply.github.com>

- drivers/riello_usb.c: Update riello_usb.c Added driver setting flag `localcalculation`. When enabled, driver will calculate values of battery.runtime and battery.load locally. This is for some Riello models (iPlug and iDialog series) that provides incorrect values. Local calculation is done according to nominal battery capacity, nominal battery voltage, actual battery charge, maximum and actual UPS load. Added condition to filter off situation when battery temperature variable is incorrectly set to variable type maximum (255) - which is typical issue of some Riello models (iPlug and iDialog series). If incorrect value is detected temperature is set to 0.

2.722 2022-10-21 Yifeng Li <tomli@tomli.me>

- docs/man/huawei-ups2000.txt: huawei-ups2000.txt: document another UPS2000-G-1KRTS. This is another newer "UPS2000-G" variant encountered by a user in the wild and reported [1] to me. [1] Personal communication, thanks for reporting.
- docs/man/huawei-ups2000.txt: huawei-ups2000.txt: document another UPS2000-A-1KTTS. This commit adds UPS2000-A-1KTTS with another firmware version (V2R1C1SPC50) to the list of tested UPS models. Thanks @ultinous-dancsa for reporting it [1]. [1] https://github.com/networkupstools/nut/issues/1017#issuecomment-1020013055

2.723 2022-10-21 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: fix more "egrep" ⇒ "grep -E" cases in the older branch

2.724 2022-10-20 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_python.m4: clarify message for "Version reported ... not suitable""
- NEWS: fix for snmp-ups type error handling [#1682]
- drivers/snmp-ups.c: apply comments from PR review to make code better understandable [#1682]

2.725 2022-10-18 Clappier, Eric <EricClappier@eaton.com>

- drivers/snmp-ups.c: Fix walk issue with snmpv3 (**add type error execption**)

2.726 2022-10-14 Jim Klimov <jimklimov@gmail.com>

- drivers/snmp-ups.c: Update snmp-ups.c Avoid potential NULL pointer dereference in a debug printout

2.727 2022-10-13 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict
- AUTHORS: Update AUTHORS

2.728 2022-10-13 Clappier, Eric <EricClappier@eaton.com>

- drivers/apc-epdu-mib.c: Fix bad traduction in code
- drivers/apc-epdu-mib.c: Fix outlets display Add global current
- drivers/snmp-ups.c: Fix index computed issue when OID is absent

2.729 2022-10-12 zakx <zakx@users.noreply.github.com>

- AUTHORS, data/driver.list.in, docs/man/snmp-ups.txt: Documentation update regarding Network-M2 card The Eaton Gigabit Network Card (Network-M2) is already well-supported by the powerware driver. This patch updates the documentation to reflect this.

2.730 2022-10-12 Jim Klimov <jimklimov@gmail.com>

- NEWS: apc-epdu-mib added for NUT v2.8.1

2.731 2022-10-10 Clappier, Eric <EricClappier@eaton.com>

- drivers/Makefile.am, drivers/apc-epdu-mib.c, drivers/apc-epdu-mib.h, drivers/snmp-ups.c: Add SNMP apc easy pdu support

2.732 2022-10-05 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README: update mingw libneon build instructions

2.733 2022-09-25 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx.c: qx_initbattery(): adjust initially known "battery.voltage" right away, if we know the batt.packs and that battery_voltage_reports_one_pack [#1279]
- tests/NIT/nit.sh: make use of NUT_QUIET_INIT_SSL
- NEWS, clients/upsclient.c, docs/man/upscli_init.txt: clients/upsclient.c, docs, NEWS: support NUT_QUIET_INIT_SSL envvar to hide "Init SSL without certificate database" message [#1662]
- clients/upsclient.c: fix typo in message

2.734 2022-09-22 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx.c: qx_multiply_battvolt(): init temporary "s" to 0 (so if sscanf() somehow fails/skips, we have a non-toxic outcome)
- drivers/nutdrv_qx.c: fix getval("battery_voltage_reports_one_pack") for the driver option flag [#1279]

2.735 2022-09-21 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_hunnox.c, drivers/nutdrv_qx_mecer.c, drivers/nutdrv_qx_megatec-old.c, drivers/nutdrv_qx_megatec.c, drivers/nutdrv_qx_mustek.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_qs.c, drivers/nutdrv_qx_voltronic.c, drivers/nutdrv_qx_zinto.c: drivers/nutdrv_qx*: rename multiply_battvolt() to qx_multiply_battvo to remain specific about the code source

2.736 2022-09-19 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS: reflect extended default ranges for max battery voltage when guessing [#1279]
- drivers/blazer_ser.c, drivers/blazer_usb.c: drivers/blazer_{usb,ser}.c: bump DRIVER_VERSION due to changes in blazer.c [#1279]
- drivers/nutdrv_qx.c: qx_initbattery(): extend default batt.volt.high range when guessing battery.packs count [#1279]
- drivers/blazer.c: blazer_packs(): extend default batt.volt.high range when guessing battery.packs count [#1279]
- drivers/nutdrv_qx.c: qx_initbattery(): report if we autodetected number of battery packs [#1279]
- drivers/nutdrv_qx.c: qx_initbattery(): extend default batt.volt.high range [#1279]
- NEWS, docs/man/nutdrv_qx.txt, docs/nut.dict, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_hunnox.c, drivers/nutdrv_qx_mecer.c, drivers/nutdrv_qx_megatec-old.c, drivers/nutdrv_qx_megatec.c, drivers/nutdrv_qx_mustek.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_voltronic.c, drivers/nutdrv_qx_zinto.c nutdrv_qx: introduce a "battery_voltage_reports_one_pack" driver option [#1279]
- drivers/nutdrv_qx.c: bump DRIVER_VERSION for issue #1279 changes
- drivers/eaton-pdu-pulizzi-mib.c: standardize on "guesstimate", "guesstimation" spelling
- drivers/snmp-ups.c: standardize on "guesstimate", "guesstimation" spelling
- drivers/blazer.c: standardize on "guesstimate", "guesstimation" spelling
- docs/man/upscode2.txt, docs/nut.dict: docs/man/upscode2.txt, nut.dict: standardize on "guesstimate", "guesstimation" spelling

2.737 2022-09-14 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: comment that _GNU_SOURCE may be needed for strptime() detection
- configure.ac: comment that _GNU_SOURCE may be needed for strptime() detection
- ci_build.sh, docs/Makefile.am, docs/man/Makefile.am, indent.sh, scripts/subdriver/gen-snmp-subdriver.sh, scripts/subdriver/gen-usbhid-subdriver.sh, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tools/nut-scanner/scan_snmp.c: Replace "egrep" by "grep -E" in shell code - modern systems frown on the former
- configure.ac: move detection of TIME_WITH_SYS_TIME to before we use it This should help find strptime() in particular on systems that have both time.h and sys/time.h files, and one does not include the other (e.g. Arch Linux).
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: detail Arch Linux package installation for a build agent
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: detail getting "pacman" and related tools on a Debian Linux host
- tests/NIT/nit.sh: add a BASH way to check port availability
- tests/NIT/nit.sh: typo fix looking in /proc/net/tcp
- tests/NIT/nit.sh: cosmetic: fix indentations botched by IDEs

2.738 2022-09-12 Jim Klimov <jimklimov+nut@gmail.com>

- docs/documentation.txt: refer to NUT Configuration Examples book
- docs/nut.dict: update for nut-website::projects.txt refresh
- NEWS, drivers/apc-hid.c, scripts/upower/95-upower-hid.hwdb: drivers/apc-hid.c, NEWS, 95-upower-hid.hwdb: Support VID:PID = 0x051d:0x0004 [#1429]

2.739 2022-09-08 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: avoid wasting time on spellcheck attempts in broken environment
- NEWS: indent nested bullets of NUT for Windows items
- NEWS: nutdrv_qx subdriver voltronic_qs_protocol accepts "V" and "H" dialects [#1623]
- drivers/nutdrv_qx_voltronic-qs.c: add support for "H protocol" [#1623] Thanks go to research and PoC by @saper-2 at https://github.com/networkupstools/nut/issues/1623#issuecomment-1236329499

2.740 2022-09-06 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: retain "driver.parameter.override.XXX" (and ".default.XXX") for troubleshooting [#1279]
- drivers/libhid.c: log if we hit the "paranoia check" with inconsistent Max vs Min [#1512]
- drivers/nutdrv_qx.c: qx_initbattery(): initialize battery.packs and battery.voltage.low/high/nom if known always (not just if battery.charge or battery.runtime are not served) [#1279]
- drivers/main.c: retain "driver.parameter.override.XXX" (and ".default.XXX") for troubleshooting [#1279]
- drivers/libhid.c: log if we hit the "paranoia check" with inconsistent Max vs Min [#1512]

2.741 2022-09-03 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: enable linux\+mingw cross builds as part of NUT baseline

2.742 2022-09-02 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS, drivers/powercom-hid.c: drivers/powercom-hid.c: fix UPS.Battery.ManufacturerDate to map to battery.mfr.date . . . (not battery.date which is the maintenance/replacement date) Closes: #1644
- drivers/cps-hid.c: prefer mapping battery.mfr.date from UPS.Battery.ManufacturerDate if available [#437]
- drivers/usbhid-ups.c: date_conversion_fun(): comment the PDC standard formula for reference
- common/Makefile.am, common/strsep.c, configure.ac, include/str.h: Add fallback strsep() implementation (for Windows mingw builds) after PR #1639
- include/Makefile.am: fix merge error (duplicate code)

2.743 2022-09-01 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upslog.c: adjust to Windows branch after PR #1639

2.744 2022-08-31 Jim Klimov <jimklimov+nut@gmail.com>

- UPGRADING: refer to collectd PR about int/size_t/time_t adaptation for NUT API consumers
- tools/nut-scanner/nut-scan.h: ensure useconds_t is defined
- NEWS, UPGRADING: note public API header revision for NUT v2.8.1
- include/parseconf.h: ensure size_t is defined
- clients/upsclient.h: ensure time_t is defined
- clients/Makefile.am, include/Makefile.am, tools/nut-scanner/Makefile.am: {tools/nut-scanner,include,clients}/Makefile.am: comment include_HEADERS as "Optionally deliverable as part of NUT public API"

2.745 2022-08-29 Jim Klimov <jimklimov@gmail.com>

- drivers/usb-common.h: Update usb-common.h Detect configure script error: Neither HAVE_USB_H nor HAVE_LUSB0_USB_H is set for the WITH_LIBUSB_0_1 build
- tools/nut-usbinfo.pl: Update nut-usbinfo.pl Detect configure script error: Neither HAVE_USB_H nor HAVE_LUSB0_USB_H is set for the WITH_LIBUSB_0_1 build
- tools/nut-usbinfo.pl: Update nut-usbinfo.pl Typo fix for `ifdef HAVE_USB_H` (libusb-0.1 header)
- drivers/usb-common.h: Update usb-common.h Typo fix for `ifdef HAVE_USB_H` (libusb-0.1 header)
- scripts/subdriver/gen-usbhid-subdriver.sh: Update gen-usbhid-subdriver.sh Old `-x generic` suggestion apparently became `-x explore` later in this timeline (also `-d1` to dump and exit after one data collection loop, without requiring a valid `NUT_STATEPATH`).

2.746 2022-08-29 Jim Klimov <jimklimov+nut@gmail.com>

- docs/hid-subdrivers.txt: remind about wire byte order vs. computer multi-byte word layout
- docs/hid-subdrivers.txt: document USB HID report descrptor troubleshooting [#1618] Great thanks to @nbriggs for putting this together and practicing many times!
- docs/hid-subdrivers.txt: mention disable_fix_report_desc troubleshooting [#1566]
- docs/hid-subdrivers.txt: add chapter on "Updating a subdriver"
- docs/hid-subdrivers.txt: update chapter on gen-usbhid-subdriver.sh
- docs/nut.dict: Update nut.dict for hid-subdrivers.txt

2.747 2022-08-29 Cy Schubert <cy@FreeBSD.org>

- clients/upslog.c: upslog: Messages should go to syslog Messages to stderr are unreliable when output to the console and mesg is n (0600). For example, the following will disallow console output to UID uucp. # mesg < /dev/console is n # mesg < /dev/ttyv0 is n # ls -l /dev/console /dev/ttyv0 crw------- 1 root wheel 0x7 Aug 29 14:03 /dev/console crw------- 1 root wheel 0x46 Aug 29 12:32 /dev/ttyv0 #

2.748 2022-08-28 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-usbinfo.pl: build against mingw-w64-x86_64-libusb-win32 as libusb-0.1 variant
- drivers/usb-common.h: build against mingw-w64-x86_64-libusb-win32 as libusb-0.1 variant
- m4/nut_check_libusb.m4: detect mingw-w64-x86_64-libusb-win32 as libusb-0.1 variant
- scripts/subdriver/gen-usbhid-subdriver.sh: only ask for VENDORID and PRODUCTID interactively if not provided via CLI args
- scripts/subdriver/gen-usbhid-subdriver.sh: update instructions
- docs/nut.dict: add "sstate"
- m4/nut_check_libusb.m4: when on Windows, prefer libusb-0.1 [#1507]
- configure.ac, drivers/libusb0.c: fix detection of strlwr() and fallback strcasestr() implem
- NEWS: sstate should always PING a driver (even if last known as stale) [#1626]
- server/sstate.c: sstate_dead(): always PING a driver (even if last known as stale) [#1626]

2.749 2022-08-27 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: get_libname_in_dir(): check for exact filename match (not just common start of string)
- drivers/usbhid-ups.c: cosmetic fixes
- drivers/usbhid-ups.c: account interrupt_pipe_EIO_count for suggestions when reconnecting [#1295]
- drivers/usbhid-ups.c: if reconnecting with use_interrupt_pipe mode, suggest to use pollonly [#1295]
- drivers/usbhid-ups.c: only report "Closing comm_driver previous handle" when we do so, and invalidate it too [#1627]
- drivers/dstate.c, server/sstate.c: server/sstate.c: log DATAOK/DATASTALE processing

2.750 2022-08-25 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update with key words from NUT for Windows effort for nut-website

2.751 2022-08-25 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README: document building shared "libnetsnmp-40.dll" Thanks to Denis Serov for the hints posted at https://alioth-lists.debian.net/pipermail/nut-upsdev/2016-April/007171.html
- tests/NIT/nit.sh: do not fail "make check-NIT" started by root just because daemons drop privileges [#1568]
- docs/config-prereqs.txt: update to OpenBSD 6.5 due to JDK 11\+ for Jenkins agents, and update other OS instructions

2.752 2022-08-24 Jim Klimov <jimklimov@gmail.com>

- scripts/python/module/PyNUT.py.in: Update PyNUT.py.in Add a note on `PyNUTError("Always a string")` to file-heading changelog

2.753 2022-08-24 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/module/test_nutclient.py.in: allow testing against UPSD on a remote host
- scripts/python/module/test_nutclient.py.in: fail if we could RunUPSCommand/SetUPSVar/DeviceLogin when we should not have [#1589]
- scripts/python/module/README: typo fixes
- scripts/python/module/PyNUT.py.in, scripts/python/module/README: scripts/python/module/PyNUT.py.in: raise PyNUTError() from strings not byte arrays [#1589]

2.754 2022-08-24 Jim Klimov <jim@jimklimov.com>

- NEWS: RFC 9271 published 2022-08-10

2.755 2022-08-23 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/module/test_nutclient.py.in: ListClients-dummy-after: check b"dummy" (not a string) as dict key [#1589]
- scripts/python/module/test_nutclient.py.in: thanks to "ex = str(sys.exc_info()[1])" we should check strings, not byte arrays [#1589]
- scripts/python/module/test_nutclient.py.in: account unexpected failures to detect actual errors [#1589]
- scripts/python/module/PyNUT.py.in: raise PyNUTError() with standard protocol strings; leave layman text to debug printouts [#1589]
- scripts/python/module/PyNUT.py.in: raise PyNUTError() with standard protocol strings; leave layman text to debug printouts [#1589]
- tools/nut-scanner/nut-scan.h: avoid including private "timehead.h" in public header [#1593]
- tools/nut-scanner/nut-scan.h: prefer co-located "nutscan-*.h" in public header [#1593]
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c: tools/nut-scanner/nut-scan.h: avoid including private "nut_stdint.h" in public header [#1593]
- scripts/Windows/build-mingw-nut.sh: report completion of configure/build/install phases
- include/Makefile.am, clients/Makefile.am: rectify distributon of parseconf.h [#1593]
- tools/nut-scanner/nut-scan.h: avoid including private "config.h" in public header [#1593] In-tree consumers of this file include "common.h" first which in turn includes "config.h" first.
- tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h: tools/nut-scanner/nutscan-ip.{c,h}: avoid including private "common.h" in public header [#1593]
- docs/new-drivers.txt, docs/nut.dict: docs/new-drivers.txt: update documentation for TYPE_FD_SER [#1593]
- tools/nut-scanner/nut-scan.h: avoid including private "timehead.h" in public header [#1593]
- tools/nut-scanner/nut-scan.h: prefer co-located "nutscan-*.h" in public header [#1593]
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c: tools/nut-scanner/nut-scan.h: avoid including private "nut_stdint.h" in public header [#1593]

- include/Makefile.am, clients/Makefile.am: rectify distributon of parseconf.h [#1593]
- tools/nut-scanner/nut-scan.h: avoid including private "config.h" in public header [#1593] In-tree consumers of this file include "common.h" first which in turn includes "config.h" first.
- tools/nut-scanner/nutscan-ip.c: tools/nut-scanner/nutscan-ip.{c,h}: avoid including private "common.h" in public header [#1593]
- clients/nutclientmem.cpp: include config.h first
- drivers/serial.c, drivers/serial.h: drivers/serial.{h,c}: relocate ser_flush_io() to ser_flush_in() to match logical relation and documentation ordering [#1593]
- clients/nutclientmem.cpp: include config.h first

2.756 2022-08-22 Jim Klimov <jimklimov@gmail.com>

- clients/nutclient.cpp: Update nutclient.cpp include "config.h" first

2.757 2022-08-21 Jim Klimov <jimklimov+nut@gmail.com>

- clients/Makefile.am: separate delivery of C+\+ headers - do it only if we deliver the libs [#1598]
- tests/NIT/nit.sh: warn to have prepared a listening NUT_PORT before asking for individual test cases
- ci_build.sh: refactor with autogen_get_CONFIGURE_SCRIPT and configure_CI_BUILDDIR for better out-of-tree builds
- appveyor.yml: shorter lines in install proto area report
- scripts/Windows/dllldd.sh: less ominous warning message
- appveyor.yml: fix shell syntax for YAML transport
- scripts/Windows/dllldd.sh: consult COMPILER_PATHS for C+\+ libs [#1603]
- m4/nut_check_libnetsnmp.m4, tools/nut-scanner/Makefile.am: tools/nut-scanner/Makefile.am: fix referencing of libnetsmp (static) build flags, so shared libnutscan.dll can be built [#1603]
- ci_build.sh: pass PARMAKE_FLAGS to build-mingw-nut.sh
- ci_build.sh: require successful autogen for cross-mingw builds
- ci_build.sh: refactor with autogen_get_CONFIGURE_SCRIPT and configure_CI_BUILDDIR for better out-of-tree builds
- tools/nut-scanner/Makefile.am: enable shared DLL builds for C+\+ libraries [#1603]
- clients/Makefile.am: enable shared DLL builds for C+\+ libraries [#1603]
- Jenkinsfile-dynamatrix: failure is no longer an option in linux\+mingw Windows cross-builds
- appveyor.yml: "find" all filenames we would archive to 7z artifact from the install proto area
- scripts/Windows/build-mingw-nut.sh: use different CXXFLAGS from CFLAGS (append vs external settings)
- appveyor.yml: archive any NUT-for-Windows*.7z tarballs
- clients/Makefile.am: separate delivery of C+\+ headers - do it only if we deliver the libs [#1598]
- common/snprintf.c: added a FIXME for dopr("%p") on some platforms
- include/timehead.h: fence with "extern C"
- clients/nutclientmem.cpp: avoid (mingw) conflict for C+\+ builds with fallback gmtime_r() etc that C\+ code does not even use [#1594]

- clients/nutclient.cpp: avoid (mingw) conflict for C+\+ builds with fallback gmtime_r() etc that C\+ code does not even use [#1594]
- clients/Makefile.am: add libnutclient.la to lib_LTLIBRARIES also on Windows now so it gets installed [#1594, #1598] Closes: #1598
- clients/Makefile.am: bump semver of libnutclient due to added TcpClient::setDebugConnect(bool) [#1594]
- clients/nutclient.cpp, clients/nutclient.h: clients/nutclient.cpp: internal::Socket::connect(): make debug noise optional
- tests/NIT/nit.sh: warn to have prepared a listening NUT_PORT before asking for individual test cases

2.758 2022-08-21 Cy Schubert <cy@FreeBSD.org>

- NEWS, clients/upslog.c, docs/man/upslog.txt: upslog: Add support for multiple UPSs upslog is a utility that logs UPS status at regular intervals, specified by the -i option. Unfortunately upslog supports only one UPS. For sites that need to monitor multiple UPSs the options are to cobble an rc script for each or doctor up the nut_upslog.in script to support cloning of the script. Unfortunately an rc script capable of being cloned would become the source of more PRs and would require significanly more tehcnical documentation that by itself might become confusing for the average system administrator. Therefore a new -m option is added to support multiple UPSs using the same invocation of upslog. The patch parses a -m option, polling each ups listed.

2.759 2022-08-20 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/Makefile.am: check-NIT-devel: become EXEEXT-aware
- tests/NIT/nit.sh: report if skipping cppnit because absent
- clients/nutclient.cpp: Socket::connect(): add debug
- tests/NIT/Makefile.am: check-NIT-devel: become EXEEXT-aware
- tests/NIT/nit.sh: report if skipping cppnit because absent
- tests/Makefile.am: Revert "tests/Makefile.am: make POSIX style short names aliases for HAVE_WINDOWS .exe targets" This reverts commit b3d36d9a81f42ca6e2cae15e04e54f5ce6ec80f6.
- tests/Makefile.am: make POSIX style short names aliases for HAVE_WINDOWS .exe targets
- clients/nutclient.cpp: Socket::connect(): add debug
- clients/nutclient.cpp: port W32_NETWORK_CALL_OVERRIDE code from upsclient.c

2.760 2022-08-19 Kubisz Mariusz <mmzk987@gmail.com>

- drivers/blazer.c: Blazer: Accept the value of "idleload" equal to zero It allows setting the "idleload" parameter equal to zero

2.761 2022-08-19 Jim Klimov <jimklimov@gmail.com>

- appveyor.yml: Update appveyor.yml Add mingw-w64-x86_64-cppunit to check `cppnit` et al

2.762 2022-08-19 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: NUT_REPORT_FEATURE the HAVE_CXX11 and HAVE_CPPUNIT aspects
- clients/nutclient.cpp: port connect() WIN32 code from upsclient.c
- docs/config-prereqs.txt: document how to get cppunit in Windows MSYS2 [#1594]
- appveyor.yml: tarball built NUT binaries marked as x86_64 (maybe do i686 later?)
- configure.ac: NUT_REPORT_FEATURE the HAVE_CXX11 and HAVE_CPPUNIT aspects
- configure.ac, m4/nut_check_libnetsnmp.m4, tools/nut-scanner/Makefile.am: introduce WITH_SNMP_STATIC flag
- drivers/riello_ser.c: fix whitespace in WIN32 codepath
- server/conf.c: pedantically handle a case of VALID_FD
- server/conf.c: pedantically handle a case of ERROR_FD
- drivers/netxml-ups.c: pedantically handle a case of ERROR_FD
- drivers/dstate.c: no need to cast sockfd to int anymore, we adhere to TYPE_FD (or fail build if not)
- clients/nutclient.cpp: err on the safe side, check "ifdef" before we "define" WINAPI-compatibility macros
- clients/nutclient.cpp: err on the safe side, check "ifdef" before we "define" WINAPI-compatibility macros
- drivers/apcupsd-ups.c: convert to use of TYPE_FD_SOCK and its macros
- common/Makefile.am: only add wincompat.{c,h} to libcommon* if HAVE_WINDOWS in the build
- clients/upssched.c: try_connect(): further reduce discrepancy of WIN/non-WIN codepaths
- clients/upsmon.h: clients/upsmon.{c,h}: rename ST_CONNECTED to ST_CLICONNECTED - WIN32 cleanup
- clients/upsmon.c, clients/upsmon.h: clients/upsmon.{c,h}: rename ST_CONNECTED to ST_CLICONNECTED ST_CONNECTED is defined for WIN32 DDE (Dynamic Data Exchange) in ddeml.h Renaming avoids the conflict in easiest manner
- clients/upsmon.c, clients/upsmon.h: clients/upsmon.{c,h}: rename ST_CONNECTED to ST_CLICONNECTED ST_CONNECTED is defined for WIN32 DDE (Dynamic Data Exchange) in ddeml.h Renaming avoids the conflict in easiest manner
- NEWS: group "NUT for Windows" bullet points

2.763 2022-08-18 Jim Klimov <jimklimov@gmail.com>

- appveyor.yml: Update appveyor.yml Hush back down the bundle-install
- Makefile.am: Update Makefile.am Fix detection of cgiexecdir; comments on dirs involved here.
- appveyor.yml: Update appveyor.yml
- appveyor.yml: Update appveyor.yml archive config.log pass filename version differently

2.764 2022-08-18 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: restructure error-catching in default BUILD_TYPE="" case
- drivers/snmp-ups.c: err on the safe side with "long" value and "int" arg of nut_snmp_walk()
- scripts/Windows/dllldd.sh: ignore zero-sized files under DESTDIR (bad copies etc)
- scripts/Windows/dllldd.sh: one hit under DESTDIR suffices
- scripts/Windows/build-mingw-nut.sh: tell DESTDIR to dllldd() search code
- scripts/Windows/dllldd.sh: ignore some more known system DLLs
- Makefile.am: tell scripts/Windows/dllldd.sh to check under DESTDIR [#1492]
- Makefile.am: Revert "Makefile.am: install freshly built libups*.dll libnut*.dll into non-binary dirs from the bin [#1492]" This reverts commit b39e3a3d2d1652ef23e82bee2c2dc4d638751b5a.
- scripts/Windows/dllldd.sh: rearrange to probe for each file in all possible locations; check under DESTDIR if provided
- scripts/Windows/dllldd.sh: comment about not-searching for our own build products
- m4/nut_check_python.m4: inform if python version was not suitable [#1583]
- m4/nut_check_python.m4: take "no" for an answer [#1583]
- m4/nut_check_python.m4: simplify PYTHON*_VERSION_REPORT to avoid brackets from m4 code [#1583]
- m4/nut_check_python.m4: constrain python{,2,3} versions - check that what is found is in range [#1583]
- scripts/Windows/dllldd.sh: typo fix
- scripts/Windows/build-mingw-nut.sh: handle cgi-bin dir too
- appveyor.yml: typo fix
- Makefile.am: install freshly built libups*.dll libnut*.dll into non-binary dirs from the bin [#1492]
- m4/nut_check_python.m4: inform if python version was not suitable [#1583]
- m4/nut_check_python.m4: take "no" for an answer [#1583]
- m4/nut_check_python.m4: simplify PYTHON*_VERSION_REPORT to avoid brackets from m4 code [#1583]
- m4/nut_check_python.m4: try to fix Windows MSYS2 "buggy" path for python{,2,3} site-packages [#1584]
- m4/nut_check_python.m4: comment about Windows MSYS2 "buggy" path for python{,2,3} site-packages [#1584]
- m4/nut_check_python.m4: constrain python{,2,3} versions - check that what is found is in range [#1583]
- Makefile.am: install-win-bundle-thirdparty: fix again detection of presence of cgiexecdir [#1492]
- appveyor.yml: archive installed artifacts with 7z (zip format does not do sym/hard-links)
- INSTALL.nut: update notes of NUT for Windows building/installing - that CI would publish at least archives
- appveyor.yml: reword install step so cmd⇒bash likes it
- INSTALL.nut: update notes of NUT for Windows building/installing - current state of the art
- ci_build.sh, scripts/Windows/build-mingw-nut.sh: ci_build.sh \+ scripts/Windows/build-mingw-nut.sh: suggest use of INSTALL_WIN_BUNDLE to call "make install-win-bundle"
- ci_build.sh: suggest use of "make install-win-bundle" in default BUILD_TYPE="" case
- ci_build.sh: restructure error-catching in default BUILD_TYPE="" case
- appveyor.yml: build meaningful base dirname into downloadable zip bundle

2.765 2022-08-18 Jim Klimov <jim@jimklimov.com>

- appveyor.yml: Update appveyor.yml Display ccache stats after tarballing, to see them better. And still after build in case tests fail. (TODO: on any outcome - postprocessing tag?) Do not shell-trace tarballing routine.

2.766 2022-08-18 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/snmp-ups.c: snmp-ups: fix alarm processing only walk the number of present alarms, instead of INT_MAX, to avoid potential blocking

2.767 2022-08-17 Jim Klimov <jimklimov@gmail.com>

- appveyor.yml: no `time`! No `time`: it outputs `/\^sys/` - fatal for powershell (or appveyor?) console scanner
- appveyor.yml: try harder to avoid AppVeyor/Powershell induced faults
- appveyor.yml: try to avoid AppVeyor/PowerShell complaints about presence of stderr output

2.768 2022-08-17 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: introduce CI_SKIP_CHECK support to help split CI jobs into stages
- ci_build.sh: comment away DMF-specific check_gitignore() calls for now - they refer to BUILD_TGT not (yet) defined in this codepath
- ci_build.sh: clarify report of "Using ccache via PATH..."
- Makefile.am: install-win-bundle-thirdparty: cgiexecdir may be not installed (others too technically... but unlikely a valid situation) [#1492]
- scripts/Windows/dllldd.sh: drop diff markup chars
- Makefile.am: install-win-bundle-thirdparty: mute the big logic block [#1492]
- Makefile.am: install-win-bundle-thirdparty: handle cgiexecdir if present [#1492]
- Makefile.am: force-hardlink installed DLLs into secondary dirs (overwrite if older link/copy exists)
- scripts/Windows/dllldd.sh: cripts/Windows/dllldd.sh: optimize by filtering away more well-known Windows-provided DLLs
- scripts/Windows/dllldd.sh: refactor dlllddir() to only look at any DLL once (MSYS2 has a huge inter-dependency tree)
- scripts/Windows/dllldd.sh: optimize to check if base dir for planned listing exists
- scripts/Windows/dllldd.sh: not all shells seen auto-expand "{bin,lib}" notation
- scripts/Windows/dllldd.sh: prefer objdump over ldd as more reliable (especially when many files are queried and one hit suffices for script logic)
- scripts/Windows/dllldd.sh: optimize by feeding many PE files to same ldd/objdump command (where supported)
- scripts/Windows/dllldd.sh: optimize by filtering away well-known Windows-provided DLLs
- scripts/Windows/dllldd.sh: subshell dllldd() with C locale [#1492]
- scripts/Windows/dllldd.sh: refactor dlllddir() [#1492]
- appveyor.yml: make check and install quieter
- appveyor.yml: "make install-win-bundle" and save artifacts with Bundle of binary files and FOSS dependencies of NUT for Windows [#1492, #1552]

- scripts/Windows/build-mingw-nut.sh: refactor to "make install-win-bundle" target recipe [#1492]
- Makefile.am: define "make install-win-bundle" target recipe [#1492]
- scripts/Windows/build-mingw-nut.sh, scripts/Windows/dllldd.sh: scripts/Windows/dllldd.sh: transplant dlllddir() from build-mingw-nut.sh [#1492]
- scripts/Windows/dllldd.sh: fallback support for MSYS2 path search [#1492]
- scripts/Windows/build-mingw-nut.sh, scripts/Windows/dllldd.sh: Split scripts/Windows/dllldd.sh as a separately usable shell tool or lib [#1492]
- appveyor.yml: introduce CI_SKIP_CHECK support to help split CI jobs into stages
- ci_build.sh: introduce CI_SKIP_CHECK support to help split CI jobs into stages
- ci_build.sh: comment away DMF-specific check_gitignore() calls for now - they refer to BUILD_TGT not (yet) defined in this codepath
- appveyor.yml: try harder to save ccache for next builds
- appveyor.yml: add after_build stage to report ccache stats
- NEWS, docs/nut.dict: NEWS: Proclaim AppVeyor CI tests of NUT for Windows [#1552]
- ci_build.sh: clarify report of "Using ccache via PATH..."
- appveyor.yml: Assorted stats: "du" just the MSYS tree, without looking in other filesystems like /proc
- appveyor.yml: dispose of "ps" in favor of "cmd" to invoke MSYS2 shell scripts (too much hassle with wording on stderr)
- appveyor.yml: pre-create /var/cache/pacman/pkg on newly made workers [#1552]
- appveyor.yml: Only cache packages with appveyor.yml [#1552]
- appveyor.yml: Introduce appveyor.yml to automate NUT for Windows builds [#1552]

2.769 2022-08-16 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS: fall back to /usr/local/... if libltdl was not found by default [#1577]
- m4/nut_check_libltdl.m4: fall back to /usr/local/... if no custom CFLAGS were specified and libltdl was not found by default [#1577]
- scripts/python/module/README: typo fix
- scripts/python/module/README: document GetUPSNames() [#746, #549]
- scripts/python/module/README: clarify about "str" vs "byte" strings (hassle of Python 3) [#746]

2.770 2022-08-15 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/module/PyNUT.py.in: refactor with GetUPSNames() for py2/py3 compatibility [#549, #746]
- scripts/python/module/PyNUT.py.in: fix exception in SetRWVar(): strip EOL
- tests/NIT/nit.sh: rearrange handling (and messaging) for DEBUG_SLEEP

2.771 2022-08-14 Jim Klimov <jimklimov@gmail.com>

- NEWS: snmp-ups updated for invalid negative values [#1558]

2.772 2022-08-14 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: consider --with-nut-scanner option [#1560]
- docs/packager-guide.txt: add suggestions for nut-scanner [#1560]
- UPGRADING: recommend packagers to "configure --with-all" by default
- NEWS, UPGRADING: announce "configure --with-nut-scanner" [#1560]
- configure.ac, tools/nut-scanner/Makefile.am: configure.ac: add --with-nut-scanner (also as part of --with-all) Closes: #1560
- m4/nut_arg_with.m4: escape dashes into underscores for valid shell var names
- configure.ac: clarify --with-all help message
- docs/config-prereqs.txt: mention that "MinGW UCRT x64" environment seems to also work for NUT builds
- docs/man/usbhid-ups.txt: update with known illumos support
- docs/man/usbhid-ups.txt: add a toggle to disable_fix_report_desc [#1566]
- drivers/apc-hid.c, drivers/cps-hid.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: usbhid-ups, cps-hid, apc-hid: add a toggle to disable_fix_report_desc [#1566]
- NEWS: openssl-3.0.x supported with openssl-1.1.0 support code from NUT v2.8.0 [#1547]
- include/common.h: update comments to document TYPE_FD* macros [#1556]
- drivers/dstate.c: whitespace and typo fixes (cosmetic) [#1556]
- UPGRADING: document changes for TYPE_FD* in headers (Windows branch) [#1556]
- clients/upssched.c: start_daemon(): firther refactor to simplify code [#1556]
- INSTALL.nut: refer to GitHub project regarding NUT for Windows [#5]

2.773 2022-08-14 Jim Klimov <jim@jimklimov.com>

- scripts/python/app/NUT-Monitor-py3qt5.in: fix __find_icon_file()... ...to look also for package-installed icons (in OS location) Thanks to @Perlovka for noticing and proposing a fix, and to @lukejr for confirming it as correct. Closes: #1567
- scripts/Solaris/nut-driver.xml.in, scripts/Solaris/nut-server.xml.in, scripts/Solaris/svc-nut-server.in: scripts/Solaris/nut-server*, nut-driver.xml: create NUT_RUN_DIR before starting the driver (e.g. at boot) [#1564]
- configure.ac, scripts/Solaris/Makefile.am: introduce WITH_SOLARIS_INIT and depend WITH_SOLARIS_SMF on whether we want packaging for Solaris/illumos [#1554]
- NEWS: update for Solaris/illumos packaging and SMF service support [#1554, #1564]

2.774 2022-08-13 Jim Klimov <jim@jimklimov.com>

- NEWS, docs/nut.dict: NEWS: client/nutclient{,mem}.{cpp,h}: add listDeviceClients() and deviceGetClients(dev)
- tests/cpputest-client.cpp: cover device login and getting list of clients
- clients/nutclient.cpp, clients/nutclient.h, clients/nutclientmem.cpp, clients/nutclientmem.h: client/nutclient{,mem}.{cpp,h}: add listDeviceClients() and deviceGetClients(dev)

2.775 2022-08-12 Jim Klimov <jimklimov+nut@gmail.com>

- include/common.h, server/nut_ctype.h, server/stype.h, server/upsd.c: Introduce also TYPE_FD_SOCK for sockets [#1556]
- clients/upssched.c, clients/upssched.h, common/common.c, drivers/apcsmart.c, drivers/belkinunv.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/dstate.h, drivers/dummy-ups.c, drivers/libshut.c, drivers/main.c, drivers/main.h, drivers/serial.c, include/common.h, server/sstate.c, server/sstate.h, server/stype.h, server/upsd.c, server/upstype.h, tools/nut-scanner/scan_eaton_ Refactor TYPE_FD [#1556]
- drivers/serial.c: refactor ser_set_*() and ser_get_*() to define once, implement per target (WIN32 or not)
- include/common.h: separate definitions of TYPE_FD, ERROR_FD, VALID_FD() macros for usual file descriptors vs. types for serial port work [#1556]
- common/common.c, drivers/belkinunv.c, drivers/libhid.h, drivers/libshut.h, drivers/serial.c, drivers/serial.h, include/common.h, server/upsd.c, tools/nut-scanner/scan_eaton_serial.c: Rename platform-abstracted serial/SHUT file descriptor macro TYPE_FD ⇒ TYPE_FD_SER [#1556]
- server/upsd.c: ups_available(): fix reporting "Data stale" for an UPS that never connected (WIN32 only) [#1477]
- server/upsd.c: mainloop(): report that we retry connecting to driver socket and what the outcome was (at all - WIN32)
- server/upsd.c: mainloop(): report that we retry connecting to driver socket and what the outcome was more clearly
- drivers/serial.c: convert from ERROR_FD equality to !VALID_FD()
- tools/nut-scanner/scan_xml_http.c: fix whitespace
- tools/nut-scanner/scan_usb.c: tools/nut-scanner/scan_snmp.c: ifdef-scope nut_usb_get_busses() vs nut_usb_busses for WIN32 or not
- tools/nut-scanner/scan_eaton_serial.c: convert from ERROR_FD equality to VALID_FD()

2.776 2022-08-12 Jim Klimov <jim@jimklimov.com>

- docs/net-protocol.txt: typo fix "LIST CLIENTS" ⇒ "LIST CLIENT" [#549]
- NEWS, docs/nut.dict: NEWS: report fixed PyNUT::ListClients() [#549] and added DeviceLogin()
- scripts/python/module/test_nutclient.py.in: report end of script aka PyNUT instance teardown
- tests/NIT/nit.sh: test python DeviceLogin() and ListClients() methods with upsmon-role credentials
- scripts/python/module/PyNUT.py.in: extend PASSWORD handling for values with spaces
- scripts/python/module/test_nutclient.py.in: add DeviceLogin() method
- scripts/python/module/README: add DeviceLogin() method
- scripts/python/module/PyNUT.py.in: add DeviceLogin() method
- scripts/python/module/PyNUT.py.in: bump version for fixed ListClients()
- scripts/python/module/test_nutclient.py.in: confirm that ListClients() fails for unknown device
- scripts/python/module/test_nutclient.py.in: report more visibly if we have a real result or an exception
- scripts/python/module/test_nutclient.py.in: test ListClients() [#549]
- scripts/python/module/PyNUT.py.in: fix ListClients() * to call the right protocol command Closes: #549 * handle the begin/end messages correctly to work at all * make ListClients() usable with "ups==None" * parse "CLIENT ups host" in correct order

2.777 2022-08-12 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/ietf-mib.c: snmp-ups: flag invalid negative values for IETF MIB

2.778 2022-08-11 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nutscan-ip.h: fix type of include file/markup
- server/upsd.c: fix whitespace
- server/sstate.c: fix whitespace
- drivers/belkinunv.c: convert from ERROR_FD equality to !VALID_FD()
- drivers/apcsmart.c: convert from ERROR_FD equality to !VALID_FD()
- INSTALL.nut: clarify that **currently** Win32 packages are not made regularly
- common/snprintf.c: whitespace fix
- configure.ac: fix whitespace
- configure.ac: initially set LIBREGEX_LIBS="" so it is defined
- scripts/Windows/README: document current (unfinished) prerequisite cross-build for avahi
- common/common.c: allow to find libraries via PATH (WIN32 only) [#1482]

2.779 2022-08-10 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README: uncomment iconv as useful for libgd directly
- scripts/Windows/README: document hiccup with libgd in 32-bit mode
- scripts/Windows/build-mingw-nut.sh: export valid CXX for good measure
- scripts/Windows/README: move net-snmp instruction to be after openssl, to take advantage of its presence
- scripts/Windows/README: clarify that xmlto (asciidoc) is needed for full libneon build, or how to skip installing docs
- scripts/Windows/README: un-hide xz and libxml2 (needed for libneon) instructions
- scripts/Windows/build-mingw-nut.sh: install WIN32 libs near relevant executable after all [#1482]
- docs/nut.dict: Update docs/nut.dict
- NEWS: changed get_libname() behavior and extended use-case in nut-scanner for NUT v2.8.1
- docs/nut.dict: Update docs/nut.dict
- tools/nut-scanner/nutscan-init.c: fallback to plain "libusb" in either case (0.1 or 1.0 not found)
- tools/nut-scanner/nutscan-init.c: fall back to nutscan_load_*() unresolved paths to library names, native implem of lt_dlopen() may do a better job [#805]
- common/common.c: get_libname(): prefer LD_LIBRARY_PATH_(32\|64) firstmost [#805]
- common/common.c: get_libname(): prefer LD_LIBRARY_PATH first [#805]
- common/common.c: fix whitespace
- NEWS: changed get_libname() behavior and extended use-case in nut-scanner for NUT v2.8.1

- tools/nut-scanner/nutscan-init.c: fall back to nutscan_load_*() unresolved paths to library names, native implem of lt_dlopen() may do a better job [#805] - for WIN32
- tools/nut-scanner/nutscan-init.c: fall back to nutscan_load_*() unresolved paths to library names, native implem of lt_dlopen() may do a better job [#805]
- tools/nut-scanner/nutscan-init.c: fallback to plain "libusb" in either case (0.1 or 1.0 not found)
- scripts/Windows/build-mingw-nut.sh: we now allow to find libraries near the current NUT executable (../lib) on WIN32, so install all third-party deps there once [#1482]
- common/common.c, include/common.h: common/common.c: allow to find libraries near the current NUT executable (../lib) on WIN32 with PATH_LIB [#1482]
- common/common.c: allow to find libraries near the current NUT executable (../lib) on WIN32 [#1482]
- common/common.c: get_libname(): prefer LD_LIBRARY_PATH_(32\|64) firstmost [#805]
- common/common.c: get_libname(): prefer LD_LIBRARY_PATH first [#805]
  - for WIN32 (with ";" separator)
- common/common.c: get_libname(): prefer LD_LIBRARY_PATH first [#805]
- common/common.c: fix whitespace

2.780 2022-08-09 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Solaris/Makefile.am: do not install Solaris init files uninvited [#1488]
- scripts/Windows/build-mingw-nut.sh: typo fix
- Jenkinsfile-dynamatrix: allow 32-bit builds for cross-windows-mingw-32
- scripts/Solaris/Makefile.am: fix automake conditional syntax
- clients/upssched.c: avoid type comparison warnings on 32-bit WIN32 builds [#1478]
- common/strptime.c: avoid type range limit warnings on 31-bit builds
- scripts/Windows/build-mingw-nut.sh: implement recursive find-and-copy of DLLs needed by NUT binaries into the nut_install tree [#1492]
- scripts/Solaris/Makefile.am: do not install Solaris init files uninvited [#1488]
- scripts/Windows/README: rearrange chapter on building NUT itself; mention ci_build.sh integration
- scripts/Windows/README: document cross-building openssl for NUT and for libneon
- scripts/Windows/README: clarify build vs install of zlib(-devel)
- scripts/Windows/README: keep two blank lines between component-recipe chapters

2.781 2022-08-06 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh, scripts/Windows/README: ci_build.sh: refactor BUILD_TYPE=cross-windows-mingw* support

2.782 2022-08-05 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README: document custom cross-build of libneon
- scripts/Windows/README: define ARCH-dependent PKG_CONFIG_PATH by default
- scripts/Windows/README: comments about building in WSL2-provided Ubuntu environment
- scripts/Windows/README: clarify comments for pthread custom build (not needed with modern mingw delivery)
- scripts/Windows/README: document the mess of static-only netsnmp builds (typo fix)
- scripts/Windows/README: fix prompt markup to friendlier copy-paste; use variables for ARCHLESS-download and ARCH-build locations

2.783 2022-08-01 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: testcase_upsd_allow_no_device(): noisy listing should not be default At least, it is likely the root cause of faults was the busy NUT_PORT and not some missing content in the config file, after all.
- tests/NIT/nit.sh: testcase_upsd_allow_no_device(): noisy listing should not be default At least, it is likely the root cause of faults was the busy NUT_PORT and not some missing content in the config file, after all.

2.784 2022-08-01 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/mge-mib.c: Fix case for EATON manufacturer This must be upper case to avoid duplicate discoveries Closes: IPMPROG-4489 (cherry picked from commit a10f5967154e6c6d2dfa53975de6f874b9966804)

2.785 2022-07-31 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict Add MinGW spelling for a quote

2.786 2022-07-30 Jim Klimov <jimklimov@gmail.com>

- tests/NIT/nit.sh: isBusy_NUT_PORT() should not block tests when /proc/net/tcp{,6} is usable and says port is free
- tests/NIT/nit.sh: isBusy_NUT_PORT() should not block tests when tools to check occupied ports are not available
- tests/NIT/nit.sh: consult isBusy_NUT_PORT() to pick an available port
- tests/NIT/nit.sh: add isBusy_NUT_PORT()
- tests/NIT/nit.sh: typo fix in report_NUT_PORT()
- tests/NIT/nit.sh: troubleshoot testcase_upsd_allow_no_device() - tell exit-code of upsd
- tests/NIT/nit.sh: troubleshoot testcase_upsd_allow_no_device()
- server/upsd.c: report "Found %d UPS defined in ups.conf" upon start
- tests/NIT/nit.sh: isBusy_NUT_PORT() should not block tests when /proc/net/tcp{,6} is usable and says port is free
- tests/NIT/nit.sh: isBusy_NUT_PORT() should not block tests when tools to check occupied ports are not available
- tests/NIT/nit.sh: consult isBusy_NUT_PORT() to pick an available port
- tests/NIT/nit.sh: add isBusy_NUT_PORT()
- tests/NIT/nit.sh: typo fix in report_NUT_PORT()
- tests/NIT/nit.sh: troubleshoot testcase_upsd_allow_no_device() - tell exit-code of upsd
- tests/NIT/nit.sh: troubleshoot testcase_upsd_allow_no_device()
- server/upsd.c: report "Found %d UPS defined in ups.conf" upon start

2.787 2022-07-29 Jim Klimov <jimklimov+nut@gmail.com>

- .gitignore: GitIgnore configure-script test sources
- .gitignore: GitIgnore coredumps
- tools/nut-scanner/scan_xml_http.c: fix some comments and whitespace
- tools/nut-scanner/scan_usb.c: fix some comments and whitespace
- tools/nut-scanner/scan_snmp.c: fix some comments
- tools/nut-scanner/scan_nut.c: fix some whitespace
- tools/nut-scanner/scan_ipmi.c: fix some whitespace
- tools/nut-scanner/scan_avahi.c: fix some whitespace
- tools/nut-scanner/nutscan-serial.c: fix some whitespace
- server/upsd.c: fix some whitespace
- include/str.h: fix some whitespace
- drivers/al175.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/gamatronic.c, drivers/optiups.c, drivers/powercom.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/snmp-ups.c, drivers/tripplite_usb.c, drivers/upsdrvctl.c, server/netssl tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http. Fix "%j*" and "%z*" printing to PRI[xidu](SIZE\|MAX): avoid dangling "" concatenation in format strings
- drivers/al175.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/gamatronic.c, drivers/optiups.c, drivers/powercom.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/snmp-ups.c, drivers/tripplite_usb.c, drivers/upsdrvctl.c, server/netssl tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http. Fix "%j*" and "%z*" printing to PRI[xidu](SIZE\|MAX): avoid dangling "" concatenation in format strings
- tools/nut-scanner/scan_xml_http.c: fix some comments and whitespace
- tools/nut-scanner/scan_usb.c: move "Clear any existing error" up where it makes sense
- tools/nut-scanner/scan_usb.c: fix some comments and whitespace
- tools/nut-scanner/scan_snmp.c: fix some comments
- tools/nut-scanner/scan_nut.c: fix some whitespace
- tools/nut-scanner/scan_ipmi.c: fix some whitespace
- tools/nut-scanner/scan_avahi.c: fix some whitespace
- tools/nut-scanner/nutscan-serial.c: fix some whitespace
- server/upsd.c: fix some whitespace
- server/netssl.c: typo fixes "inialize" ⇒ "initialize", and some whitespace
- include/str.h: fix some whitespace
- drivers/al175.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/gamatronic.c, drivers/optiups.c, drivers/powercom.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/snmp-ups.c, drivers/tripplite_usb.c, drivers/upsdrvctl.c, server/netssl tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http. Fix "%j*" and "%z*" printing to PRI[xidu](SIZE\|MAX): avoid dangling "" concatenation in format strings
- tests/NIT/nit.sh: fix CRLF/LF handling for UPSC multiline output parsing [#1477]
- include/wincompat.h: suggest why inet_ntop() may be not detected on WIN32 (antivirus)
- .gitignore: GitIgnore configure-script test sources

- .gitignore: GitIgnore coredumps
- server/upsd.c: whitespace/comment fixes
- configure.ac: suggest why inet_ntop() may be not detected on WIN32 (antivirus)
- common/wincompat.c: extend fallback inet_ntop() to support IPv6
- server/upsd.c: improve tracing and range-handling of polled FDs for WIN32
- docs/config-prereqs.txt: make note of MSYS2 terminal pre-sets
- server/sstate.c: update some comments
- server/sstate.c: use VALID_FD more liberally
- server/sstate.c: comment where sstate_connect() continued for both platforms
- server/netssl.c: fix some whitespace
- m4/nut_check_libltdl.m4: improve detection of "libltdl-7.dll" on WIN32 MSYS2
- server/netssl.c: typo fixes "inialize" ⇒ "initialize", and some whitespace
- tools/nut-scanner/scan_usb.c: move "Clear any existing error" up where it makes sense

2.788 2022-07-28 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usbhid-ups.c: fix some whitespace
- drivers/snmp-ups.c: fix some whitespace
- drivers/libshut.c: fix whitespace
- drivers/libhid.h: fix whitespace
- drivers/isbmex.c: fix whitespace
- drivers/genericups.c: drop blank line
- drivers/clone-outlet.c: fix some whitespace
- drivers/blazer_usb.c: adjust whitespace
- include/nut_stdint.h: be consistent - define PRI[di] (both) for MAX and SIZE
- drivers/usbhid-ups.c: fix some whitespace
- drivers/snmp-ups.c: fix some whitespace
- drivers/serial.h: include "common.h" for possibly fallback suseconds_t
- drivers/libshut.c: fix whitespace
- drivers/libhid.h: fix whitespace
- drivers/isbmex.c: fix whitespace
- drivers/genericups.c: drop blank line
- drivers/dummy-ups.c: update comments
- drivers/clone-outlet.c: fix some whitespace
- drivers/blazer_usb.c: adjust whitespace
- include/nut_stdint.h: be consistent - define PRI[di] (both) for MAX and SIZE

- drivers/usbhid-ups.c: fix some whitespace
- drivers/libusb1.c: Fix "%ji", "%jd" and "%ju" printing to PRI[du]MAX
- drivers/isbmex.c: fix whitespace
- drivers/genericups.h: adjust formatting style
- drivers/dstate.h: comment why we include "main.h" (also dstate is for drivers anyway, should not conflict)
- drivers/clone.c: update some comments
- drivers/clone.c: use VALID_FD more liberally
- drivers/clone-outlet.c: update some comments
- drivers/clone-outlet.c: use VALID_FD more liberally
- drivers/belkinunv.c: adjust whitespace
- drivers/apcupsd-ups.c: getdata(): fd_flags should be "int" not "long"
- docs/config-prereqs.txt: add libltdl for WIN32 MSYS2

2.789 2022-07-27 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: fix word order
- clients/upsmon.c: comment "use_pipe"
- clients/upssched.c: sendcmd(): fix "pipefd" definition formatting Minimize diffs vs. Windows branch
- common/common.c: update formatting and comments Minimize diffs vs. Windows branch
- common/snprintf.c: comment #endif HAVE_* reasons
- docs/man/ups.conf.txt: formatting fix (line per sentence)
- clients/upsmon.c: main(): fix "cmd" definition formatting Minimize differences vs. Windows branch
- clients/upsmon.c: fix some whitespace
- clients/upsclient.c: fix some whitespace
- docs/nut.dict: fix word order
- docs/man/ups.conf.txt: formatting fix (line per sentence)
- configure.ac: typo fix (cosmetic)
- common/snprintf.c: comment #endif HAVE_* reasons
- common/common.c: refactor confpath() and dflt_statepath()
- common/common.c: check_unix_socket_filename(): optimize use of len and max
- common/common.c: update formatting and comments Minimize diffs vs. Windows branch
- clients/upssched.c: sendcmd(): fix "pipefd" definition formatting Minimize diffs vs. Windows branch
- clients/upsmon.c: main(): fix "cmd" definition formatting Minimize differences vs. Windows branch
- clients/upsmon.c: comment "use_pipe"
- clients/upssched.c: clients/upssched.c send_to_one(): reword message for "write failed … disconnecting"
- clients/upsmon.c: fix some whitespace

- clients/upsclient.c: fix some whitespace
- docs/man/ups.conf.txt: formatting fix (line per sentence) with Windows
- common/snprintf.c: drop duplicate variable declarations
- common/common.c: make noise about unimplemented select_write() on WIN32
- common/common.c: comment about call of dflt_statepath() from altpidpath()
- common/common.c: do not clutter xmalloc()/xcalloc() with memset(0) on non-WIN32 platforms Very unsure if this is needed on WIN32 either, assuming callers of these methods know the difference and that they do work as advertised on the platform
- common/common.c: simplify writepid() code style
- clients/upssched.c: sendcmd(): fix "pipefd" definition formatting
- clients/upsmon.c: main(): fix "cmd" definition formatting
- clients/upsmon.c: comment "use_pipe"
- .gitattributes: treat *.hwdb files as in Unix/Linux format only
- clients/upsmon.c: simplify runparent(): it is completely non-WIN32
- clients/upslog.c: refactor CLI arg processing for WIN32
- clients/upsmon.c: simplify an #ifdef WIN32 block
- include/common.h: move WIN32 additions inside the "#ifdef __cplusplus" braces
- common/common.c: refactor confpath() and dflt_statepath()
- configure.ac: typo fix (cosmetic)

2.790 2022-07-26 Evgeny Klimov <klimov@provys.com>

- clients/Makefile.am: Link libupsclient with libcommon on all platforms Restores the achievements of commit fdcd1efaa4b5c911ce7d4 vs. contents of Windows branch that split off from master before it.

2.791 2022-07-24 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README: try to link net-snmp shared (does not help though)
- scripts/Windows/README: document the mess of static-only netsnmp builds
- m4/nut_check_libnetsnmp.m4: if we fail to find init_snmp() on mingw, retry with static-linking assumption for net-snmp
- ci_build.sh: be sure to use fresh configure script for cross-mingw builds too
- ci_build.sh: fix indentation

2.792 2022-07-23 Yifeng Li <tomli@tomli.me>

- drivers/huawei-ups2000.c: huawei-ups2000.c: rename NULL macros, close #1474. Originally, in the struct array ups2000_cmd[], a REG_NONE macro was used as a short-hand for a nonexistent register value. Unfortunately it was in conflict with a Windows NT macro of the same name (previously not found because it was only tested on Unix systems). Thus, this commit renames it to REG_NULL. To avoid visual confusions with the function pointer field (which also uses C's NULL for its nonexistence), this commit also replaces it with a new macro FUNC_NULL, which is a simple alias to C's NULL. It's not exactly the best practice, a "UPS2000_" prefix should've been used in principle. However, using it in this case creates exceedingly long lines and makes the struct array definition more difficult to read, which defeats the very purpose of defining these macros to begin with. Considering that it's only an one-off use, it's unlikely to cause further problems.

2.793 2022-07-23 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README: document libmodbus
- scripts/Windows/build-mingw-nut.sh: propagate correct PKG_CONFIG_PATH
- scripts/Windows/build-mingw-nut.sh: avoid installing augeas lenses into system location autoconf fudges paths for DESTDIR if they are there
- scripts/Windows/README: document latest state of experiment with fontconfig for libgd (fails due to ICU so far)
- scripts/Windows/README: update libgd build with freetype prerequisites
- scripts/Windows/README: suggest ccache
- scripts/Windows/README: update libgd build with zlib and libpng prerequisites
- scripts/Windows/README: update with libgd build
- scripts/Windows/README: update some more comments

2.794 2022-07-22 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README: reference mailing list details from 2016 about more prereq builds
- scripts/Windows/README: update setting envvars for prereq builds
- scripts/Windows/README: update some notes
- tests/NIT/nit.sh: stop_daemons() before exit-handling to not cause end-of-life error code
- tests/NIT/nit.sh: stop_daemons(): forget daemon PIDs to avoid mix-ups
- tests/NIT/nit.sh: stop_daemons(): do not trigger an error by term/exit code from stopped daemons
- scripts/Windows/build-mingw-nut.sh: avoid installing PyNUT into OS paths while testing

2.795 2022-07-21 Jim Klimov <jimklimov@gmail.com>

- ci_build.sh: log BITS* vars
- ci_build.sh: cross-windows-mingw: guess bitness from *FLAGS if no BITS are exported explicitly
- scripts/Windows/build-mingw-nut.sh: avoid concatenating *FLAGS into invalid strings
- ci_build.sh: log BITS* vars

2.796 2022-07-21 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: when starting UPSD, log_debug() which PID_UPSD we track (troubleshoot)
- tests/NIT/nit.sh: in stop_daemons() wait for killed daemons to return an exit-code
- tests/NIT/nit.sh: introduce best-effort report_NUT_PORT() to where we fail if UPSD is not running
- tests/NIT/nit.sh: when starting UPSD, log_debug() which PID_UPSD we track (troubleshoot)
- tests/NIT/nit.sh: in stop_daemons() wait for killed daemons to return an exit-code
- tests/NIT/nit.sh: introduce best-effort report_NUT_PORT() to where we fail if UPSD is not running

2.797 2022-07-20 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: log ARCH* vars

2.798 2022-07-19 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: testcase_sandbox_start_upsd_after_drivers(): avoid hardcoded wait time in favor of more flexibility
- tests/NIT/nit.sh: testcase_upsd_allow_no_device(): avoid hardcoded wait time in favor of more flexibility
- Makefile.am: `make distcheck` should test installability of NUT-Monitor and PyNUT (even if as a co-bundle)
- scripts/python/.gitignore: GitIgnore scripts/python/NUT-Monitor wrapper if generated
- configure.ac: only require --with-pynut from --with-all (if Python is detected); do not require --with-nut_monitor (GUI) here
- ci_build.sh: do not choke on absence of desktop-related modules in Python - just install (no fatal sanity check)
- ci_build.sh: do not choke on absence of desktop-related modules in Python
- m4/nut_check_python.m4: use better portable quoting
- tests/NIT/nit.sh: fix back the CMDERR handling

2.799 2022-07-18 Jim Klimov <jimklimov@gmail.com>

- tests/NIT/nit.sh: testcase_sandbox_start_drivers_after_upsd(): log_warn() if we had to wait for a driver to become usable
- docs/nut.dict: Update docs/nut.dict
- docs/nut.dict: Update docs/nut.dict
- NEWS: fixed man-page building for single-driver builds fixes a regression of NUT 2.8.0

2.800 2022-07-18 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: convert many tests that did OUT="`upsc ...`" to runcmd()
- tests/NIT/nit.sh: testcase_sandbox_start_drivers_after_upsd(): report what was received from upsc query as device data
- tests/NIT/nit.sh: runcmd(): set defaults for RUNCMD_QUIET_ERR and RUNCMD_QUIET_OUT, and avoid printing a blank line when there is nothing captured in the string
- tests/NIT/nit.sh: testcase_upsd_allow_no_device(): use runcmd() to retry connection hiccups
- tests/NIT/nit.sh: introduce runcmd()
- tests/NIT/nit.sh: report which NUT_PORT was used in "upsc" failed queries (help catch conflicting test runs)
- tests/NIT/nit.sh: account FAILED_FUNCS to help troubleshoot the test script (or tested code)
- tests/NIT/nit.sh: testcase_sandbox_start_drivers_after_upsd(): wait longer for driver start (and valid upsc response)
- tests/NIT/nit.sh: log the exit-code of "upsc" failed queries
- tests/NIT/nit.sh: report which NUT_PORT we started with

2.801 2022-07-17 Jim Klimov <jimklimov@gmail.com>

- scripts/python/Makefile.am, scripts/python/app/README: scripts/python: distribute and reference from README the screenshots from NUT-Monitor site
- NEWS, UPGRADING, configure.ac, scripts/python/Makefile.am: configure.ac, scripts/python/Makefile.am: handle `make install` for NUT-Monitor and/or PyNUT [#1462]
- m4/nut_check_python.m4: avoid square brackets, m4 interpreter makes them difficult
- m4/nut_check_python.m4: discover site-packages location for discovered interpreter(s)
- scripts/python/Makefile.am: distribute the module/README
- scripts/python/module/README: Update scripts/python/module/README as of NUT v2.8.0 release
- scripts/python/module/README: Add scripts/python/module/README This is a rough translation of https://www.lestat.st/-informatique/projets/pynut Pardon my French ;)
- scripts/python/app/screenshots/nut-monitor-1.png, scripts/python/app/screenshots/nut-monitor-2.png, scripts/python/app/screenshots/monitor-3.png: Add scripts/python/app/screenshots from original project wiki
- scripts/python/app/nut-monitor.appdata.xml: update localization info
- scripts/python/Makefile.am: Revert "scripts/python/Makefile.am: EXTRA_DIST the app/ui/gui-1.3.glade.h sources" This reverts commit d2ede1a4d5d0e89eae31d931818570772895b325. Not sure ATM what the file is actually for, who uses or generates it.
- scripts/python/Makefile.am: EXTRA_DIST the app/ui/gui-1.3.glade.h sources
- scripts/python/Makefile.am: EXTRA_DIST the translation sources
- scripts/python/Makefile.am: EXTRA_DIST the Russian translation (follow-up for #806)
- scripts/python/Makefile.am: refactor file-set variable naming to facilitate both EXTRA_DIST and make install
- Makefile.am: EXTRA_DIST autogen.sh since we have other bits to regenerate the configure script anyway
- scripts/python/Makefile.am: EXTRA_DIST the "dispatcher" script and applet manifest Regression in #1354 for NUT v2.8.0 release Closes: #1462
- NEWS, configure.ac, docs/man/Makefile.am: configure.ac, docs/man/Makefile.am: fix man-page building when just a few drivers are built by name Regression for custom-builders in NUT 2.8.0 release Closes: #1467
- NEWS: prioritize NUT v2.8.1 release as a regression-fixer for 2.8.0 (move not-urgent "expected" work to 2.8.2 tentatively)
- NEWS: fix usbhid-ups reaction to libusb ENOMEM in NUT v2.8.0 [#1422]
- NEWS: fix regression in dummy-ups for some platforms in NUT v2.8.0 [#1420]
- NEWS: stop/restart drivers more aggressively in NUT v2.8.1 [#1424]
- docs/config-prereqs.txt: update libusb availability note for OmniOS
- NEWS: device support for huawei-ups2000 improved in NUT v2.8.1 [#1448]
- NEWS: fix regression in cyberpower-mib tables in NUT v2.8.0 [#1432]
- NEWS: report-desc fix for cps-hid 0x0601 [#1497]
- NEWS: regression fix for upscode in 2.8.0 release [#1495, #1455]

2.802 2022-07-14 Jim Klimov <jimklimov@gmail.com>

- common/common.c: allow to use NUT_ALTPIDPATH envvars also on Windows (with similar logic for NUT_STATEPATH fallback)
- drivers/riello.c, drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c: drivers/riello*.{c,h}: update links to PDF protocol documentation Closes: #1481
- server/upsd.c: avoid meaningful work in upsdebug*() macro call [#1455]
- drivers/upscode2.c: avoid meaningful work in upsdebug*() macro call [#1455]

2.803 2022-07-14 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upssched.c: wrap call to signal(SIGALRM, SIG_IGN) with pragmas to ignore "-Wstrict-prototypes" (some platform headers do not declare SIG_IGN as a function prototype)
- clients/Makefile.am: revise use of libupsclient_la_SOURCES in favor of pre-built libcommonclient.la
- .gitattributes: constrain EOL for binary files

2.804 2022-07-14 Austin Sabel <austin.sabel@gmail.com>

- drivers/cps-hid.c: apply report fix to model CP1500PFCLCDa

2.805 2022-07-13 Jim Klimov <jimklimov@gmail.com>

- docs/config-prereqs.txt: fix markup to pass xmllint
- tools/nut-scanner/Makefile.am: fix build on non-Windows platforms

2.806 2022-07-13 Jim Klimov <jimklimov+nut@gmail.com>

- .gitattributes: use a different syntax for "* text eol=auto"
- scripts/Windows/Installer/NUT-Installer.xml: fix end-of-line chars
- common/common.c: allow to use NUT_CONFPATH and NUT_STATEPATH envvars also on Windows
- Jenkinsfile-dynamatrix: introduce dynacfgPipeline.axisCombos_(NOT_)WINDOWS_CROSS and a recipe to build on cross-mingw workers
- scripts/Windows/README: refer to docs/config-prereqs.txt for native WIN32 builds
- ci_build.sh, scripts/Windows/README: introduce BUILD_TYPE=cross-windows-mingw(-64|-32\|)
- tools/nut-scanner/Makefile.am: separate libnutscan_la_LDFLAGS version-info from other options, and highlight that SER-LIBS may belong elsewhere
- clients/Makefile.am: separate libupsclient_la_LDFLAGS version-info from other options
- clients/Makefile.am: fix relative path that should point to top_srcdir
- configure.ac, server/upsd.c: forfeit use of DATADIR in favor of NUT_DATADIR to avoid confusion

2.807 2022-07-11 Yifeng Li <tomli@tomli.me>

- docs/man/huawei-ups2000.txt: huawei-ups2000.txt: document UPS2000-G-1KRTS. This commit adds UPS2000-G-1KRTS to the list of tested UPS models. Thanks @sumsethan for reporting it [1]. [1] https://github.com/networkupstools/nut/issues/-1066#issuecomment-1180005297
- docs/nut.dict: nut.dict: add developer name "Hirschler" to the dict. Fix spellcheck regression in 7bfc617c1f6de1d57fe2c06d1a94a9cd9

2.808 2022-06-23 Marshall Whittaker <marshallwhittaker@gmail.com>

- docs/nut.dict: Updated dictionary.
- data/driver.list.in: Added SKE SK600 to supported device list.

2.809 2022-06-23 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/generic_modbus.c: switch from non-standard "uint" to "uint16_t" (per context) which we do define
- drivers/adelsystem_cbi.c: switch from non-standard "uint" to "uint16_t" (per context) which we do define
- drivers/adelsystem_cbi.c, drivers/adelsystem_cbi.h: drivers/adelsystem_cbi.{c,h}: avoid macro clash with WIN32 DEVICE_TYPE
- common/common.c: refactor get_libname() so new get_libname_in_dir() may be used not only to loop search_paths[]
- clients/nutclient.cpp, clients/upsclient.c, common/common.c, drivers/libhid.c, drivers/libusb1.c, drivers/main.c, drivers/nut-drv_siemens_sitop.c, drivers/upscode2.c, include/nut_stdint.h, server/upsd.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_
  Fix "%ji", "%jd" and "%ju" printing to PRI[du]MAX
- drivers/generic_modbus.c: switch from non-standard "uint" to "uint16_t" (per context) which we do define
- drivers/dstate.c: rename (arg_)extrafd to not shadow a global var name
- drivers/adelsystem_cbi.c: switch from non-standard "uint" to "uint16_t" (per context) which we do define
- drivers/adelsystem_cbi.c, drivers/adelsystem_cbi.h: drivers/adelsystem_cbi.{c,h}: avoid macro clash with WIN32 DEVICE_TYPE
- common/strerror.c: include stdio.h for snprintf()
- common/strerror.c: avoid build error if EDEADLK==EDEADLOCK
- common/common.c: refactor get_libname() so new get_libname_in_dir() may be used not only to loop search_paths[]
- common/atexit.c: mark NUT_UNUSED_VARIABLE if we !HAVE_ON_EXIT
- clients/nutclient.cpp, clients/upsclient.c, common/common.c, drivers/libhid.c, drivers/libusb1.c, drivers/main.c, drivers/nut-drv_siemens_sitop.c, drivers/upscode2.c, include/nut_stdint.h, server/upsd.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_
  Fix "%ji", "%jd" and "%ju" printing to PRI[du]MAX
- autogen.sh: suggest how to re-checkout workspace with desired EOL settings
- docs/nut.dict: Update nut.dict
- docs/config-prereqs.txt: fix typos
- docs/config-prereqs.txt: install aspell-en for MSYS2
- docs/config-prereqs.txt: suggest a way to install DLLs into proto area after an MSYS2 build
- drivers/adelsystem_cbi.c, drivers/adelsystem_cbi.h: drivers/adelsystem_cbi.{c,h}: avoid macro clash with WIN32 DEVICE_TYPE
- drivers/adelsystem_cbi.c: switch from non-standard "uint" to "uint16_t" (per context) which we do define
- drivers/generic_modbus.c: switch from non-standard "uint" to "uint16_t" (per context) which we do define

- configure.ac, drivers/huawei-ups2000.c, include/timehead.h: include/timehead.h: fallback gmtime_r() variants
- include/timehead.h: implement a (non thread-safe currently) fallback from missing localtime_r() via localtime()
- configure.ac, drivers/mge-hid.c, include/timehead.h: Fallback from missing localtime_r() to present localtime_s() where available
- docs/config-prereqs.txt: warn about antivirus interaction with native Windows builds
- common/strerror.c: include stdio.h for snprintf()
- common/strerror.c: avoid build error if EDEADLK==EDEADLOCK
- common/atexit.c: mark NUT_UNUSED_VARIABLE if we !HAVE_ON_EXIT
- scripts/Windows/README: stash some URLs to dependencies not detailed further yet
- .gitattributes: Introduce .gitattributes
- autogen.sh: suggest how to re-checkout workspace with desired EOL settings
- docs/config-prereqs.txt: MSYS2 baseline request includes implementations of autotools
- docs/config-prereqs.txt: update suggestions for "pure" mingw installation on Windows
- common/common.c: getfullpath(): change buf size to MAX_PATH and limit strncat() safely
- drivers/dstate.c: rename (arg_)extrafd to not shadow a global var name
- clients/nutclient.cpp, clients/upsclient.c, common/common.c, drivers/libhid.c, drivers/libusb1.c, drivers/main.c, drivers/nut-drv_siemens_sitop.c, drivers/upscode2.c, include/nut_stdint.h, server/upsd.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_
  Replace %jd and %ju with PRI[du]MAX
- drivers/libusb0.c: common/common.c: fallback strcasestr(): avoid double-free on some platforms
- tools/nut-scanner/nutscan-init.c: look for (WIN32) libupsclient-6 according to version-info
- common/common.c: update search_paths[] to include "." on WIN32 for now
- common/common.c: refactor get_libname() so new get_libname_in_dir() may be used not only to loop search_paths[]

2.810 2022-06-21 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: get_libname(): debug trace when skipping an absent dirname
- include/wincompat.h: ensure that we have a PATH_MAX defined
- tools/nut-scanner/nutscan-init.c: if we build WITH_SNMP_STATIC then assume nutscan_avail_snmp==1
- configure.ac: whitespace fix
- clients/upsset.c: rectify includes for WIN32 builds
- ci_build.sh: set default defines in C(XX)FLAGS for WIN32 builds

2.811 2022-06-20 Yifeng Li <tomli@tomli.me>

- drivers/huawei-ups2000.c: huawei-ups2000.c: update comment header with info about docs.

2.812 2022-06-19 Marshall Whittaker <marshallwhittaker@gmail.com>

- docs/man/nutdrv_qx.txt: Noted that SKE devices work with the nutdrv_qx driver.

2.813 2022-06-18 Yifeng Li <tomli@tomli.me>

- docs/nut.dict: nut.dict: add CH341/UART related terms to dict.
- docs/man/huawei-ups2000.txt: huawei-ups2000.txt: document UPS2000G/CH341 variant.
- drivers/huawei-ups2000.c: huawei-ups2000.c: support newer UPS2000G/CH341 variants. We received a report of the existence of a new hardware variant from the bug tracker [1]. This UPS unit has the model number UPS2000-G-3KRTS just like a model we've previously tested, and it has the same V2R1C1SPC50 firmware, which was tested by us as well (although not on UPS2000-G-3KRTS but on UPS2000-A-2KTTS). However, there are two obvious hardware differences. First, this unit reports itself as "UPS2000G" via the protocol instead, which is a new value not found in the datasheet or previously encountered by us. Previously, even a "UPS2000G" model reports itself as the "UPS2000A". Another difference is the use of WCH CH341 serial-to-USB converter chip instead of the MaxLinear/Exar RX21V1410 chip. Bus 002 Device 005: ID 1a86:5523 QinHeng Electronics CH341 in serial mode, usb to serial port converter The production label on the UPS says 2021-12-04. So it's likely a newer hardware revision or variant. Was it redesigned to improve USB serial compatibility? Or my personal guess, due to chip shortage? Who knows. Nevertheless, once the "UPS2000G" model string is added to the supported list, it was reported that the driver correctly functions without doing anything else. Thus, from a software perspective there's no difference. Thanks GitHub user @Qinka for reporting it. [1] https://github.com/networkupstools/nut/issues/1066#issuecomment-1158417669

2.814 2022-06-18 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/apcupsd-ups.c: align fcntl() error-checking with upsd.c precedent
- drivers/riello_ser.c: make it build for WIN32
- drivers/blazer_ser.c: warn in WIN32 build start-up messages that actual serial port setup may be not happening yet
- drivers/apcupsd-ups.c: port bits of networking code from upsd.c for WIN32 build
- drivers/apcupsd-ups.c: getdata() for WIN32: only CloseHandle() when we close() the p.fd, to err on the safe side and be similar to other codebase
- drivers/apcupsd-ups.c: align fcntl() error-checking with upsd.c precedent

2.815 2022-06-16 Michael Hirschler <michael.vhirsch@gmail.com>

- docs/documentation.txt: adds link describing NUT on Fedora 36

2.816 2022-06-16 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/blazer_usb.c, drivers/libshut.h, drivers/nut_libusb.h, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usbhid-ups.c: drivers/libusb.h, libshut.h, nutdrv_qx et al: rename *_communication_subdriver_s fields for function pointers "open" and "close" to "*_dev" - to avoid conflict with serial.h macros for WIN32 builds
- drivers/tripplitesu.c: rename SHUTDOWN_* to TSU_SHUTDOWN_* to avoid WIN32 macro conflicts
- drivers/tripplitesu.c: rename SHUTDOWN_* to TSU_SHUTDOWN_* to avoid WIN32 macro conflicts
- drivers/blazer_usb.c, drivers/libshut.h, drivers/nut_libusb.h, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usbhid-ups.c: drivers/libusb.h, libshut.h, nutdrv_qx et al: rename *_communication_subdriver_s fields for function pointers "open" and "close" to "*_dev" - to avoid conflict with serial.h macros for WIN32 builds
- drivers/Makefile.am: move apcupsd-ups and skel to NUTSW_DRIVERLIST [#1446]
- drivers/Makefile.am: move apcupsd-ups and skel to NUTSW_DRIVERLIST [#1446]
- drivers/apcupsd-ups.c: use INVALID_SOCKET for catching socket() problems
- drivers/apcupsd-ups.c: getdata(): fix fcntl() vs CreateEvent() in WIN32 model

- NEWS, UPGRADING, configure.ac, drivers/Makefile.am: Separate NUT software-only drivers from serial ones Closes: #1446
- NEWS, UPGRADING, configure.ac, drivers/Makefile.am: Separate NUT software-only drivers from serial ones [#1446]
- drivers/apcupsd-ups.c: rectify includes for WIN32 build
- drivers/blazer_usb.c, drivers/libshut.h, drivers/nut_libusb.h, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usbhid-ups.c: drivers/libusb.h, libshut.h, nutdrv_qx et al: rename *_communication_subdriver_s fields for function pointers "open" and "close" to "*_dev" - to avoid conflict with serial.h macros for WIN32 builds
- drivers/apcsmart.c: only define ECANCELED if not avoidable
- drivers/clone-outlet.c: only declare last_connfail in non-WIN32 builds
- drivers/apcsmart.c: use VALID_FD()
- drivers/clone-outlet.c: use VALID_FD()
- drivers/clone.c: use VALID_FD()
- drivers/blazer_ser.c: currently neuter big part of upsdrv_initups() on WIN32 to avoid build errors
- scripts/Windows/build-mingw-nut.sh: quote path variable expansions
- include/wincompat.h: define TIOCM_RI the best we can (someone should check it works for real HW)
- drivers/tripplitesu.c: rename SHUTDOWN_* to TSU_SHUTDOWN_* to avoid WIN32 macro conflicts
- drivers/dummy-ups.c: do not rely on fstat(int,...) in WIN32

2.817 2022-06-15 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: nut.dict: update for WIN32 changes
- NEWS: Note revival of Windows build effort with NUT v2.8.x era codebase
- INSTALL.nut, docs/nut.dict: nut.dict: update for WIN32 docs updates

2.818 2022-06-15 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: unblock serial (and other?) driver building with WIN32 target

2.819 2022-06-14 Jim Klimov <jimklimov@gmail.com>

- common/wincompat.c, drivers/huawei-ups2000.c, scripts/Windows/wininit.c: scripts/Windows/wininit.c common/wincompat.c: change the fix for empty translation unit to one that does not emit other warnings :)
- drivers/blazer_usb.c, drivers/nutdrv_qx.c, drivers/tripplite_usb.c: drivers/**usb.c: address fallout for LIBUSB_ERROR_** renaming
- configure.ac: fix strdup() check (include stdlib.h to have free())
- configure.ac: fix str*() check program codes

2.820 2022-06-14 Jim Klimov <jimklimov+nut@gmail.com>

- m4/ax_c_pragmas.m4: avoid strcasestr() which is not ubiquitous
- scripts/Windows/build-mingw-nut.sh: require clean builds without warnings
- tools/nut-scanner/scan_snmp.c: do not cast snmp_errno as a function ptr when we build WITH_SNMP_STATIC
- tools/nut-scanner/scan_snmp.c: hush compiler warnings about unused DL vars when we build WITH_SNMP_STATIC
- tools/nut-scanner/scan_snmp.c: hush compiler warnings about function pointer vs. void* Per https://gcc.gnu.org/bugzilla/-show_bug.cgi?id=83584 the standards do not actually forbid this (and dlsym internally relies on it), just this is not a defined behavior and might not work on all platforms.
- tools/nut-scanner/scan_snmp.c: avoid unused label for WITH_SNMP_STATIC builds
- drivers/serial.c: mark NUT_UNUSED_VARIABLE(port) when "no locking method is available"
- tools/nut-scanner/nutscan-init.c: fix WIN32 stub of do_upsconf_args()
- tools/nut-scanner/scan_nut.c: fix WIN32 builds (unused variable in its scope)
- drivers/upsdrvctl.c: fix handling of signals vs commands to stop a driver
- include/common.h, drivers/serial.c: drop PRINT_FD() as invalid
- common/strptime.c: comment away fallback strncasecmp()
- common/Makefile.am, common/strptime.c, configure.ac, include/timehead.h: configure.ac: detect if we HAVE_STRPTIME and optionally fall back to NetBSD implementation (from MSYS2)
- configure.ac, drivers/serial.h: consider if we HAVE_SYS_SELECT_H at all
- clients/message.c: avoid NPE, make use of argc
- tools/nut-scanner/nutscan-ip.c: revise includes etc.
- m4/nut_func_getnameinfo_argtypes.m4: adapt to WIN32 (mingw) arg4\+6
- drivers/dstate.c, drivers/dstate.h, drivers/main.c, drivers/main.h: drivers/dstate.c, main.{c,h}: make set_exit_flag() reusable
- clients/upssched.c: fix non-WIN32 (only) use of some variables in sendcmd()
- clients/upssched.c: fix WIN32 "fd" reporting and use (int vs HANDLE)
- clients/upssched.c: fix use of close() for WIN32 builds
- drivers/dstate.h: include "wincompat.h" in WIN32 builds to have HANDLE defined
- drivers/dstate.c: mark NUT_UNUSED_VARIABLE(extrafd) in WIN32 variant of dstate_poll_fds()
- drivers/dstate.c: fix WIN32 reporting of pipename vs sockfn
- drivers/dstate.c: fix WIN32 "fd" reporting and use (int vs HANDLE)
- drivers/dstate.c: whitespace fix
- drivers/dstate.c: avoid duplicate import with WIN32 builds
- scripts/Windows/wininit.c: SvcMain(): mark NUT_UNUSED_VARIABLE argc/argv
- configure.ac, drivers/libusb0.c, include/str.h: configure.ac, drivers/libusb0.c: implement a fallback strcasestr() if needed and possible
- m4/ax_c_pragmas.m4: avoid strcasestr() which is not ubiquitous
- drivers/libusb0.c: avoid unused "busses" variable
- server/upsd.c: ups_available(): call VALID_FD() for portability
- scripts/Windows/.gitignore: GitIgnore Windows build area (per script for mingw)

2.821 2022-06-13 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: avoid realpath() on platforms that lack it Part of this was merged to master earlier, except the header include
- clients/upsmon.c, clients/upssched.c, common/common.c, common/parseconf.c, include/common.h: Refactor fcntl(..., FD_CLOEXE as set_close_on_exec() where possible
- drivers/mge-xml.c, drivers/netxml-ups.c, drivers/netxml-ups.h, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_bestups.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: drivers/*.{h,c}: rename "CAL" in enums to "CALIB" to avoid name clash in WIN32 builds
- configure.ac: check for existence of realpath()
- drivers/snmp-ups.h: be sure to include "nut_stdint.h"
- drivers/mge-xml.c, drivers/netxml-ups.c, drivers/netxml-ups.h, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_bestups.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: drivers/*.{h,c}: rename "CAL" in enums to "CALIB" to avoid name clash in WIN32 builds
- configure.ac: check for existence of realpath()
- clients/upsmon.c, clients/upssched.c, common/common.c, common/parseconf.c, include/common.h: Refactor fcntl(..., FD_CLOEXE as set_close_on_exec() where possible
- drivers/blazer_usb.c, drivers/libshut.h, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.h, drivers/usbhid-ups.c: usb, shut headers and drivers: update from ERROR_* macros to LIBUSB_ERROR_* macros (avoid conflict on WIN32) Also define LIBUSB_ERROR_INTERRUPTED, LIBUSB_ERROR_NOT_SUPPORTED and LIBUSB_ERROR_OT tokens for libusb-0.1 and SHUT builds for completeness
- clients/upssched.c: reconcile size_t buflen/ssize_t ret in WIN32 build
- server/upsd.c: main(): no oldpid in WIN32 builds
- server/upsd.c: check_perms(): NUT_UNUSED_VARIABLE(fn) on WIN32
- server/upsd.c: mainloop(): fix visibility of nfds for all platforms
- server/netssl.c: fix includes for WIN32 builds
- common/common.c: optimize check_unix_socket_filename() and make it more portable
- clients/upsmon.c: oldpid is not used in WIN32 builds
- clients/upslog.c: set_print_now_flag() is not used in WIN32 builds
- drivers/nutdrv_atcl_usb.c: do not check return value of sleep() on WIN32 (is void)
- common/wincompat.c, configure.ac, scripts/Windows/build-mingw-nut.sh: configure.ac, build-mingw-nut.sh: fix inet_ntop() detection for WIN32 builds
- drivers/main.c: fix WIN32 builds regarding user/group tweaks and signal handling
- tools/nut-scanner/nutscan-ip.c: be sure to include "nut_stdint.h"
- drivers/snmp-ups.h: be sure to include "nut_stdint.h"
- drivers/blazer_usb.c, drivers/libshut.h, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.h, drivers/usbhid-ups.c: usb, shut headers and drivers: update from ERROR_* macros to LIBUSB_ERROR_* macros (avoid conflict on WIN32) Also define LIBUSB_ERROR_INTERRUPTED, LIBUSB_ERROR_NOT_SUPPORTED and LIBUSB_ERROR_OT tokens for libusb-0.1 and SHUT builds for completeness
- common/common.c: avoid realpath() on platforms that lack it
- configure.ac: check for existence of realpath()

- common/common.c: fix up some NUT_UNUSED_VARIABLE()s
- common/common.c, include/common.h: common/common.{c,h}: fix up select_read()/select_write() with WIN32 builds
- common/common.c: include dirent.h in WIN32 builds also
- drivers/mge-xml.c, drivers/netxml-ups.c, drivers/netxml-ups.h, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_bestups.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: drivers/*.{h,c}: rename "CAL" in enums to "CALIB" to avoid name clash in WIN32 builds
- clients/upsmon.c, clients/upssched.c, common/common.c, common/parseconf.c, include/common.h: Refactor fcntl(..., FD_CLOEXE as set_close_on_exec() where possible
- configure.ac: disable format warnings for mingw builds

2.822 2022-06-09 Jim Klimov <jimklimov@gmail.com>

- tools/nut-scanner/nutscan-init.c: define SOEXT (shared object file extension) as a macro
- tools/nut-scanner/Makefile.am, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_snmp.c: tools/nut-scanner: adjust ltdl names or contents to WIN32 builds
- tools/nut-scanner/Makefile.am: link net-snmp statically on (MinGW) WIN32 builds
- scripts/Windows/README, scripts/Windows/build-mingw-nut.sh: scripts/Windows/build-mingw-nut.sh \+ README: add libtool (libltdl) for nut-scanner
- scripts/Windows/build-mingw-nut.sh: install client dlls in sbin (for upsmon)
- scripts/Windows/README, scripts/Windows/build-mingw-nut.sh: scripts/Windows/build-mingw-nut.sh: install dependency DLLs near drivers
- scripts/Windows/build-mingw-nut.sh: avoid installing systemd files in Windows :)
- scripts/Windows/README: note the verified build environment
- scripts/Windows/README: suggest a build command from scratch
- scripts/Windows/README: flesh out dependency installation for libusb(-compat-0.1) and libsnmp
- scripts/Windows/README: suggest to "sudo" make install the dependencies built as mere user
- scripts/Windows/README: fix example build commands considering $ARCH etc defined above
- scripts/Windows/README: suggest to "export" HOST_FLAG and beyond, to define ARCH once and inherit from it in another single copy-pasted command

2.823 2022-06-09 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/README, scripts/Windows/build-mingw-nut.sh: scripts/Windows/README: document use of a SOURCE-MODE and some other settings

2.824 2022-06-08 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/build-mingw-nut.sh: show all build errors, and do not require any features (do best-effort)
- scripts/Windows/README: note that ./build-mingw-nut.sh takes care of envvars
- configure.ac, drivers/apcupsd-ups.c, server/upsd.h: server/upsd.h: fix absent poll.h
- common/common.c: fix undefined LOG_ERROR
- scripts/Windows/build-mingw-nut.sh: adapt to NUT v2.8.0(.1) dist tarballs, etc.

2.825 2022-05-26 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/belkin.c, drivers/bestups.c, drivers/huawei-ups2000.c, drivers/ivtscd.c, drivers/libshut.h, drivers/masterguard.c, drivers/nutdrv_qx_masterguard.c, drivers/oneac.c, drivers/optiups.c, drivers/powerp-txt.c, drivers/rhino.c, drivers/tripplitesu.c, drivers/usbhid-ups.c: drivers: fix headers to printf with PRIuSIZE formatting token
- include/proto.h, common/setenv.c: be sure to include "config.h"
- drivers/belkin.c, drivers/bestups.c, drivers/huawei-ups2000.c, drivers/ivtscd.c, drivers/libshut.h, drivers/masterguard.c, drivers/nutdrv_qx_masterguard.c, drivers/oneac.c, drivers/optiups.c, drivers/powerp-txt.c, drivers/rhino.c, drivers/tripplitesu.c, drivers/usbhid-ups.c: drivers: fix headers to printf with PRIuSIZE formatting token
- drivers/genericups.c: include "wincompat.h" where needed, to have respective macros defined
- include/proto.h, common/setenv.c: be sure to include "config.h"
- drivers/belkin.c, drivers/bestups.c, drivers/ivtscd.c, drivers/libshut.h, drivers/masterguard.c, drivers/nutdrv_qx_masterguard.c, drivers/oneac.c, drivers/optiups.c, drivers/powerp-txt.c, drivers/rhino.c, drivers/tripplitesu.c, drivers/usbhid-ups.c: drivers: fix headers to printf with PRIuSIZE formatting token
- include/common.h: be sure to see fcntl() definitions on WIN32 MSYS2

2.826 2022-05-24 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsc.c, clients/upsclient.c, clients/upscmd.c, clients/upsmon.c, clients/upsrw.c, clients/upssched.c, clients/upsset.c, common/common.c, drivers/al175.c, drivers/apcsmart.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/belkin.c, drivers/bestfortress.c, drivers/bestups.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/dummy-ups.c, drivers/gamatronic.c, drivers/huawei-ups2000.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/libhid.c, drivers/libshut.c, drivers/libusb0.c, drivers/libusb1.c, drivers/liebert-esp2.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-utalk.c, drivers/microsol-common.c, drivers/netxml-ups.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_masterguard.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c, drivers/optiups.c, drivers/powercom.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/rhino.c, drivers/snmp-ups.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/upsdrvctl.c, include/nut_stdint.h, server/netssl.c, server/sockdebug.c, server/upsd.c, tests/getvaluetest.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.
  Fix "%zx", "%zd", "%zi" and "%zu" printing to PRI[xiu]SIZE that is named more standards-like
- common/parseconf.c: include "config.h" first
- clients/upsc.c, clients/upsclient.c, clients/upscmd.c, clients/upsmon.c, clients/upsrw.c, clients/upssched.c, clients/upsset.c, common/common.c, drivers/al175.c, drivers/apcsmart.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/belkin.c, drivers/bestfortress.c, drivers/bestups.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/dummy-ups.c, drivers/gamatronic.c, drivers/huawei-ups2000.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/libhid.c, drivers/libshut.c, drivers/libusb0.c, drivers/libusb1.c, drivers/liebert-esp2.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-utalk.c, drivers/microsol-common.c, drivers/netxml-ups.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_masterguard.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c, drivers/optiups.c, drivers/powercom.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/rhino.c, drivers/snmp-ups.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/upsdrvctl.c, include/nut_stdint.h, server/netssl.c, server/sockdebug.c, server/upsd.c, tests/getvaluetest.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.
  Fix "%zx", "%zd", "%zi" and "%zu" printing to PRI[xiu]SIZE that is named more standards-like
- common/parseconf.c: include "config.h" first
- common/wincompat.c, configure.ac, include/wincompat.h: wincompat.{c,h}, configure.ac: introduce HAVE_INET_NTOP
- common/wincompat.c, scripts/Windows/wininit.c: common/wincompat.c, wininit.c: avoid defining errno as "extern int" for little reason
- common/wincompat.c: mark with NUT_UNUSED_VARIABLE()

- clients/upsc.c, clients/upsclient.c, clients/upscmd.c, clients/upsmon.c, clients/upsrw.c, clients/upssched.c, clients/upsset.c, common/common.c, common/wincompat.c, drivers/al175.c, drivers/apcsmart.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/belkin.c, drivers/bestfortress.c, drivers/bestups.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/dummy-ups.c, drivers/gamatronic.c, drivers/huawei-ups2000.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/libhid.c, drivers/libshut.c, drivers/libusb0.c, drivers/libusb1.c, drivers/liebert-esp2.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-utalk.c, drivers/microsol-common.c, drivers/netxml-ups.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_masterguard.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c, drivers/optiups.c, drivers/powercom.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/rhino.c, drivers/snmp-ups.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/upsdrvctl.c, include/nut_stdint.h, server/netssl.c, server/sockdebug.c, server/upsd.c, tests/getvaluetest.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan
  Fix "%zx", "%zd", "%zi" and "%zu" printing to PRI[xiu]SIZE that is named more standards-like
- clients/upsc.c, clients/upsclient.c, clients/upscmd.c, clients/upsmon.c, clients/upsrw.c, clients/upssched.c, clients/upsset.c, common/common.c, drivers/al175.c, drivers/apcsmart.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/belkin.c, drivers/bestfortress.c, drivers/bestups.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/dummy-ups.c, drivers/gamatronic.c, drivers/huawei-ups2000.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/libhid.c, drivers/libshut.c, drivers/libusb0.c, drivers/libusb1.c, drivers/liebert-esp2.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-utalk.c, drivers/microsol-common.c, drivers/netxml-ups.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_masterguard.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c, drivers/optiups.c, drivers/powercom.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/rhino.c, drivers/snmp-ups.c, drivers/solis.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/upsdrvctl.c, server/netssl.c, server/sockdebug.c, server/upsd.c, tests/getvaluetest.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_eaton_s
  tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: Fix "%zd", "%zi" and "%zu" printing to PRI(s)size
- include/wincompat.h: only define EAFNOSUPPORT if absent
- include/wincompat.h: only define ETIMEDOUT if absent
- include/wincompat.h: use value for include-guard as elsewhere
- common/wincompat.c: include "config.h" first
- common/wincompat.c, include/nut_stdint.h: common/wincompat.ci, nut_stdint.h: wrap some long lines, fix formatting chars Fix PRI(s)size for WIN32 builds
- common/wincompat.c: avoid GNU extension syntax
- configure.ac, include/common.h: ensure we have a "suseconds_t" always

2.827 2022-05-24 Jim Klimov <jim@jimklimov.com>

- drivers/cyberpower-mib.c: Update cyberpower-mib.c Closes: #1427

2.828 2022-05-23 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: --disable-force-nut-version-header for builds without a BUILD_TYPE, to help iterate faster
- configure.ac, include/Makefile.am: introduce @FORCE_NUT_VERSION@
- ci_build.sh: allow to pass CI_CCACHE_SYMLINKDIR="-" to avoid guessing one
- ci_build.sh: better detect ccache symlink directory
- ci_build.sh: allow to pass CI_CCACHE_SYMLINKDIR="-" to avoid guessing one
- ci_build.sh: --disable-force-nut-version-header for builds without a BUILD_TYPE, to help iterate faster
- configure.ac, include/Makefile.am: introduce @FORCE_NUT_VERSION@
- m4/nut_check_headers_windows.m4: Revert "m4/nut_check_headers_windows.m4: try to allow builds with *MINGW32* (despite *CYGWIN* or *CEGCC*) as native-Windows" This reverts commit 76bf1ee94f39b619d1c7325b16d36072c427390e.

- ci_build.sh: better detect ccache symlink directory
- docs/config-prereqs.txt: update Windows MSYS2 with notes on ccache
- docs/config-prereqs.txt: update Windows MSYS2 with more libneon packaging
- docs/config-prereqs.txt: update Windows MSYS2 with recommended PATH settings

2.829 2022-05-20 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/Windows/halt.c: mark some NUT_UNUSED_VARIABLEs
- drivers/serial.h: include config.h first
- ci_build.sh: allow use of ccache in default builds without BUILD_TYPE
- ci_build.sh: detect relevant CI_CCACHE_SYMLINKDIR variants
- ci_build.sh: allow use of ccache in default builds without BUILD_TYPE
- m4/nut_check_headers_windows.m4: NUT_CHECK_HEADER_WINDOWS(): try CFLAGS="-I/usr/include/w32api ..."
- m4/nut_check_headers_windows.m4: try to allow builds with *MINGW32* (despite *CYGWIN* or *CEGCC*) as native-Windows
- drivers/upsdrvctl.c: avoid duplicate variable declaration
- scripts/Windows/halt.c: mark some NUT_UNUSED_VARIABLEs
- scripts/Windows/wininit.c: include config.h first and avoid "empty translation unit" on non-WIN32 builds
- drivers/serial.h: include config.h first
- drivers/serial.h: hack TIOCM_ST value that may be missing from termios.h on Windows MSYS2
- docs/config-prereqs.txt: add more suggested Windows MSYS2 dependencies
- docs/config-prereqs.txt: add a NOTE about suggested pick of Windows MSYS2 dependencies
- docs/config-prereqs.txt: update links in Windows chapter
- ci_build.sh: detect relevant CI_CCACHE_SYMLINKDIR variants
- INSTALL.nut: add a chapter on Windows build enviromnent variants, and separate further config notes with a heading
- docs/config-prereqs.txt: add a chapter on Windows build enviromnent variants (MSYS2 etc)

2.830 2022-05-19 Thierry Duvernoy <tduvernoy@free.fr>

- drivers/usbhid-ups.c: Indentation correction and improvement of reconnection debug messages

2.831 2022-05-19 Jim Klimov <jimklimov@gmail.com>

- docs/man/usbhid-ups.txt: Update usbhid-ups.txt Rephrase English wording for `waitbeforereconnect` keyword

2.832 2022-05-19 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: recognize CI_OS_NAMEs for Windows MSYS2 and mingw variants

2.833 2022-05-19 Federico Mena Quintero <federico@gnome.org>

- docs/config-notes.txt: Fix link to the blazer_usb manual page There's no man page for blazer[8]; I think blazer_usb is the intended one, since all the links in that set are to the USB drivers.

2.834 2022-05-18 Thierry Duvernoy <tduvernoy@free.fr>

- docs/man/usbhid-ups.txt: usbhid-ups documentation correction
- docs/man/usbhid-ups.txt: Documentation spell checking correction
- docs/nut.dict: Adding waitbeforereconnect to nut.dict for spell check
- docs/man/usbhid-ups.txt, drivers/usbhid-ups.c: Adding waitbeforereconnect parameter to usbhid-ups (default 0 second)

2.835 2022-05-17 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/libshut.h, drivers/usb-common.h: drivers/libshut.h \+ usb-common.h: fix "alll" typos
- server/upsd.c: set_exit_flag(): sig is not UNUSED
- server/pipedebug.c: fix CRLF after merge
- include/Makefile.am: fix whitespace after merge
- drivers/clone.c: fix whitespace and comments after merge
- drivers/clone-outlet.c: fix whitespace and comments after merge
- drivers/apcsmart.c: refactor TYPE_FD use
- docs/man/upsmon.conf.txt: fix whitespace
- common/common.c: merge mess fix (report startup success on all platforms)
- drivers/main.c: set_exit_flag() should be static
- clients/upsmon.c: merge mess fix (lost in translation)
- common/wincompat.c: try to avoid empty translation unit
- scripts/Windows/Makefile.am: add MAINTAINERCLEANFILES
- server/netssl.c: merge mess fix
- server/upsd.c: merge mess fix
- tools/nut-scanner/scan_nut.c: merge mess fix
- drivers/richcomm_usb.c: merge mess fix
- drivers/usbhid-ups.h: must not include libshut.h directly
- drivers/libusb1.c: merge mess fix
- drivers/libshut.h: drivers/libshut.h \+ usb-common.h: fix "alll" typos
- drivers/main.c: merge mess fix
- drivers/serial.c: merge fix for "First implementation of termios functions"
- clients/upssched.c: fix merge inversion
- drivers/libshut.h, include/nut_stdint.h: include/nut_stdint.h: fix merge markers
- configure.ac: typo fix
- clients/Makefile.am: avoid endif reminder-comments
- drivers/libshut.h, drivers/usb-common.h: drivers/libshut.h \+ usb-common.h: fix "alll" typos

2.836 2022-05-14 Thierry Duvernoy <tduvernoy@free.fr>

- drivers/usb-common.h: Completing libusb #define error declarations

2.837 2022-05-13 Jim Klimov <jimklimov@gmail.com>

- drivers/upsdrvctl.c: if we had to SIGKILL a driver, and succeeded, remove its PID file
- drivers/main.c: if an old PID file was found, say about it before killing that PID (avoid questionable "kill: No such process" with no further context)
- .circleci/config.yml: reduce the workload, do not run "default-all-errors" every time (fightwarn-all includes it anyway now)
- drivers/upsdrvctl.c: SIGKILL a driver instance if SIGTERM did not [#1423]
- .circleci/config.yml: comment to elaborate on individual vs shared ccache
- .circleci/config.yml: comment away not-working tests (alldrv)
- drivers/main.c: SIGKILL a sibling driver instance if several SIGTERMs did not [#1423]
- ci_build.sh: fix fightwarn-all for systems without a clang-cpp in PATH
- .circleci/config.yml: BREW_MORE packages for alldrv test
- .circleci/config.yml: rename build scenarios to reveal their aspect
- .circleci/config.yml: allow to BREW_MORE packages in some scenarios
- NEWS, docs/nut.dict: NEWS: reflect fixes and CI for MacOS

2.838 2022-05-12 Thierry Duvernoy <tduvernoy@free.fr>

- drivers/usbhid-ups.c: Adding insufficient memory libusb error handling to reconnect UPS instead of doing nothing. For example, this error appears after 1 to 8 hours on an Eaton MGE 1500 UPS (0463:ffff) and causes many "Can't retrieve Report 0a: Resource temporarily unavailable" errors, followed by a passage of UPS in ups.tatus "OL OFF" (Online Off) which immediately cuts off computer power supply !!! Trying to reconnect solves this prohibitive problem

2.839 2022-05-12 Jim Klimov <jimklimov+nut@gmail.com>

- .circleci/config.yml: set CANBUILD_NIT_TESTS=yes since CircleCI VMs are single-run/single-user environments
- .circleci/config.yml: add CI_BUILDDIR: "obj" scenario
- ci_build.sh: handle CANBUILD_NIT_TESTS envvars and NUT_BUILD_CAPS=NIT... labels [follow-up to #1383]
- .circleci/config.yml: add BUILD_TYPE: "fightwarn-all" scenario
- .circleci/config.yml: use different BUILD_TYPEs to test more nuances
- .circleci/config.yml: parameterize BUILD_TYPE

2.840 2022-05-11 Jim Klimov <jimklimov+nut@gmail.com>

- .circleci/config.yml: report ccache stats before and after build to be sure it is used well
- .circleci/config.yml: use parameterized "osx-xcode" job to run some more scenarios - conservative about gcc-XXX versions
- .circleci/config.yml: update TODO comments
- .circleci/config.yml: use parameterized "osx-xcode" job to run some more scenarios
- .circleci/config.yml: convert "osx-xcode" job to parameterized
- .circleci/config.yml: use automatically maintained built-in CIRCLE_JOB envvar
- .circleci/config.yml: rearrange the "job" definition for xcode to use envvars block, so it can be generalized
- .circleci/config.yml: do not push PATH to ci_build.sh now that we have CI_CCACHE_SYMLINKDIR
- .circleci/config.yml: comment away homebrew-libtool experiments
- .circleci/config.yml: update TODO comments

2.841 2022-05-10 Jim Klimov <jimklimov@gmail.com>

- .circleci/config.yml: Add .circleci/config.yml [#1419, #917, #869]

2.842 2022-05-10 Jim Klimov <jimklimov+nut@gmail.com>

- .circleci/config.yml: use initial LDFLAGS="-L/usr/local/lib" explicitly
- .circleci/config.yml: promote installed libtool to the system - hide the debug
- .circleci/config.yml: promote installed libtool to the system - find its files for info
- .circleci/config.yml: promote installed libtool to the system
- ci_build.sh: avoid losing tmp/lib in BUILD_TYPE=default-all-errors loops
- drivers/macosx-ups.c: avoid shadowing with hardcoded max_capacity_value when we have a possibly-detected one CC: @clepple
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: add a chapter on MacOS with Homebrew
- .circleci/config.yml: hotfix "warning: sem_init is deprecated"
- drivers/macosx-ups.c: avoid (bogus) uninitialized-use warnings by pre-initializing
- drivers/macosx-ups.c: do not compare int and float
- drivers/macosx-ups.c: comment and whitespace fixes
- drivers/macosx-ups.c: do not shadow global device_name with device_name_buf
- ci_build.sh: hotfix "directory not found for option .../tmp/lib"
- .circleci/config.yml: hotfix -Wno-poison-system-directories
- .circleci/config.yml: install more prerequisites
- .circleci/config.yml: refactor to use CI_CCACHE_SYMLINKDIR
- ci_build.sh, docs/config-prereqs.txt, docs/nut.dict: ci_build.sh: refactor to let override CI_CCACHE_SYMLINKDIR easily
- drivers/dummy-ups.c: use better portable st_mtime [fallout of #1383, fix #1415]
- drivers/dummy-ups.c: use better portable st_mtime [fallout of #1383, fix #1415]

2.843 2022-05-10 Abel Gómez <abgolla@gmail.com>

- data/driver.list.in, drivers/salicru-hid.c: Add link to GitHub issue #1416 https://github.com/networkupstools/nut/issues/1416

2.844 2022-05-09 Jim Klimov <jimklimov@gmail.com>

- docs/solaris-usb.txt, scripts/Solaris/Makefile.am, .../{reset-ups-usb-solaris.sh ⇒ reset-ups-usb-solaris.sh.sample}: scripts/Solaris/Makefile.am: distribute example reset-ups-usb-solaris.sh ... and rename the file accordingly to avoid end-user confusion
- docs/solaris-usb.txt, scripts/Solaris/reset-ups-usb-solaris.sh: docs/solaris-usb.txt: move reset-ups-usb-solaris.sh to scripts/Solaris/ ... and add some comments and sanity-checks
- docs/nut.dict, docs/solaris-usb.txt: docs/solaris-usb.txt: document use of cfgadm to disconnect and recycle the USB layer

2.845 2022-05-08 Abel Gómez <abgolla@gmail.com>

- data/driver.list.in, drivers/salicru-hid.c, scripts/upower/95-upower-hid.hwdb: Add support for Salicru SPS 850 ADV T

2.846 2022-05-05 Jim Klimov <jimklimov+nut@gmail.com>

- docs/developers.txt: clarify that python and perl are needed but optional for running autogen.sh
- docs/download.txt: clarify that python and perl are needed but optional for running autogen.sh

2.847 2022-04-29 Jim Klimov <jimklimov+nut@gmail.com>

- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems CPJ500 (USB) Closes: #1403
- data/driver.list.in: mark devices supported by "*_usb" drivers with "USB" port comment, where lacking
- data/driver.list.in: mark "usbhid-ups" devices with "USB" port comment, where lacking
- data/driver.list.in: mark "snmp-ups" as supported by public protocol (3\+)
- data/driver.list.in: mark "usbhid-ups" as supported by public protocol (3\+)
- data/driver.list.in: revise CPS "BR1000ELCD" support level

2.848 2022-04-26 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: update dict
- docs/download.txt: link to distro packaging wiki page on NUT github
- docs/download.txt: update links to distro packaging recipes and their results
- docs/download.txt: deprecate buildbot tarballs
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: report why we could not open any HID devices Closes: #477

2.849 2022-04-25 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: add wc
- docs/nut.dict: add uniq

2.850 2022-04-25 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: add a CI_BUILDDIR=obj into docs scenario; name "out-of-tree builds" as such

2.851 2022-04-24 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: run some tests with CI_BUILDDIR
- .gitignore, ci_build.sh: ci_build.sh: prepare for CI_BUILDDIR=obj
- ci_build.sh: introduce CI_BUILDDIR to handle out-of-tree builds other than distcheck
- docs/man/Makefile.am, docs/man/index.txt, docs/man/nutupsdrv.txt, docs/man/upsd.txt, docs/nut.dict: docs/man/nutupsdrv.txt \+ index.txt \+ upsd.txt: use /srv/libvirt/abuild/jenkins-nut-doc/workspace/nut-website/nut/docs//linkman-*.txt for included data
- docs/man/Makefile.am: refactor LINKMAN_INCLUDE_CONSUMERS
- docs/man/Makefile.am: introduce A2X_VERBOSE
- docs/nut-qa.txt, docs/nut.dict: docs/nut-qa.txt: mention "make check-NIT-devel" helper target
- docs/man/victronups.txt: update link to cable pinout Closes: #1371
- configure.ac: fix enableval vs withval
- drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.c, drivers/usb-common.h, drivers/usbhid-ups.c: drivers/usb-common.{h,c} and USB-capable drivers: introduce warn_if_bad_usb_port_filename() Closes: #1368
- ci_build.sh: disable check-NIT by default in CI runs for now

2.852 2022-04-23 Jim Klimov <jimklimov@gmail.com>

- data/driver.list.in: driver.list.in: Add HCL info for PowerWalker VI 750T/HID (USB) Closes: #774
- data/driver.list.in: driver.list.in: Add HCL info for PowerWalker VI 2200 SH and 650 SHL (USB) Closes: #646
- data/driver.list.in: driver.list.in: Add HCL info for PowerWalker VI 2200 SHL (USB) Closes: #756
- data/driver.list.in: driver.list.in: Add HCL info for PowerWalker VI 650 SH (USB) Closes: #473
- data/driver.list.in: driver.list.in: Add HCL info for PowerWalker Basic VI 1000 SB (USB) Closes: #818
- data/driver.list.in: driver.list.in: Add HCL info for PowerWalker VI 3000 SCL (USB) Closes: #971
- data/driver.list.in: driver.list.in: Add HCL info for PowerWalker VI 1200 SHL (USB) Closes: #1270
- data/driver.list.in: driver.list.in: Add HCL info for UPS Phasak model 9465, renamed as P6N (USB) Closes: #1187
- data/driver.list.in: driver.list.in: Add HCL info for Online-UPS Xanto S700 [#1279]
- data/driver.list.in: driver.list.in: Add HCL info for Santak MT*-PRO / Castle C*K (Serial) Closes: #1039
- data/driver.list.in: driver.list.in: Add HCL info for Digitus DN-170040, DN-170041, and Voltronic Power GalleonX9-RT LCD-1-3K (USB) Closes: #1251
- data/driver.list.in: driver.list.in: Add HCL info for Kebo UPS-650VA (USB) from DDL
- data/driver.list.in: driver.list.in: Add HCL info for Kebo UPS-1000D (USB) Closes: #981
- data/driver.list.in: driver.list.in: Add HCL info for Aviem Pro 2000VA (USB) Closes: #827
- data/driver.list.in: driver.list.in: Add HCL info for Digitus DN-170076 (USB) Closes: #948

- data/driver.list.in: driver.list.in: Add HCL info for Ippon Back Basic 850 Euro (USB) Closes: #802
- data/driver.list.in: driver.list.in: Add HCL info for Energy Technologies DPK1/1-3 (Serial) Closes: #762
- data/driver.list.in: driver.list.in: Add HCL info for V7 UPS1RM2U1500-1E UPS 1500VA Rack Mount 2U (USB) Closes: #716
- data/driver.list.in: driver.list.in: Add HCL info for Advice PRS850 and PRV700 Pro (USB) from DDL
- data/driver.list.in: driver.list.in: Add HCL info for Advice Top V Pro 6-10K (USB) Closes: #744
- data/driver.list.in: driver.list.in: Add HCL info for Tecnoware UPS ERA PLUS 1100 (USB) Closes: #747
- data/driver.list.in: driver.list.in: Add HCL info for Elsist UPS Nemo2.0 160 (USB) Closes: #719
- data/driver.list.in: driver.list.in: Add HCL info for Powercom Raptor 2000 and RPT-600AP (USB) Closes: #633
- data/driver.list.in: driver.list.in: Add HCL info for Eaton 9PX 2000 RT (USB) Closes: #540
- data/driver.list.in: driver.list.in: Add HCL info for Salicru SPS ONE (USB) Closes: #554
- data/driver.list.in: driver.list.in: Add HCL info for APC SMC2200BI-BR (USB) Closes: #557
- data/driver.list.in: driver.list.in: Update comment for APC Back-UPS Pro 1000, Model BX1000M (USB) [nut#139]
- data/driver.list.in: driver.list.in: Add HCL info for Liebert PowerSure PSA 500 series (USB) Closes: #601
- docs/man/usbhid-ups.txt: document some caveats with CyberPower UPSes [issues #520, #1394]
- data/driver.list.in: driver.list.in: Update for CyberPower Systems OR1500ERM1U [#1338]
- data/driver.list.in: driver.list.in: Update comment for CyberPower Systems PR1500RT2U [#1191]
- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems CP850PFCLCD (USB) Closes: #605
- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems BL1250U (USB) Closes: #1012
- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems RT650EI (USB) Closes: #453
- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems CP1500PFCLCD (USB) Closes: #520
- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems BR1000ELCD (USB) Closes: #552
- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems UT2200E (USB) Closes: #556
- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems OR500LCDRM1U (USB) Closes: #578
- data/driver.list.in: driver.list.in: Add HCL info for CyberPower Systems EC850LCD (USB) Closes: #622
- data/driver.list.in: driver.list.in: Add HCL info for Guardian LCD 1500 AP (IGA1500LCD) (Serial) Closes: #449
- data/driver.list.in: driver.list.in: Add HCL info for Ablerex MARS MS3000RT (Serial) Closes: #449
- data/driver.list.in: driver.list.in: Add HCL info for APC AP9584 Serial-to-USB kit Closes: #181
- data/driver.list.in: driver.list.in: Update comment for Tripp_Lite SMX500RT1U (USB) [#584]
- data/driver.list.in: driver.list.in: Add HCL info for Huawei UPS2000 series (modbus) [#954 #1066 #1198 #1017]
- data/driver.list.in: driver.list.in: Add HCL info for DEXP MIX 850VA (USB) Closes: #721
- data/driver.list.in: driver.list.in: Add HCL info for CPC, ARES and Powercool models with hunnox protocol (USB) Closes: #537
- data/driver.list.in: driver.list.in: Add HCL info for Greencell Micropower 600 (USB) Closes: #1080
- data/driver.list.in: driver.list.in: Add HCL info for Crown CMU-SP1200IEC (USB) Closes: #1014
- data/driver.list.in: driver.list.in: Add HCL info for DigiTECH 650VA (USB) Closes: #674

- data/driver.list.in: driver.list.in: Add HCL info for Hunnox devices (and new protocol subdriver) (USB) [#638]
- data/driver.list.in: driver.list.in: Add HCL info for nJoy Aten PRO 3000 (SNMP) Closes: #1281
- data/driver.list.in: Update driver.list.in
- data/driver.list.in: driver.list.in: Add HCL info for nJoy Keen 600 (USB) Closes: #867

2.853 2022-04-23 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/main.c: simplify detection of PROGNAME="lt-DRIVERNAME" making it more reliable for some platforms
- configure.ac: fix nut_enable_check_NIT
- ci_build.sh: "--enable-check-NIT" and "--enable-maintainer-mode" for developer builds without a BUILD_TYPE
- ci_build.sh: "--enable-check-NIT" for CI builds
- tests/NIT/nit.sh: fix renaming typo
- tests/NIT/nit.sh: remove mktemp-ed TESTDIR when we exit
- tests/NIT/nit.sh: refactor with TESTDIR
- clients/upssched.c, common/common.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, include/common.h, server/sockdebug.c, server/sstate.c: check_unix_socket_filename() to meaningfully abort when our paths are too long
- docs/man/clone.txt, docs/man/dummy-ups.txt: docs/man/clone.txt \+ dummy-ups.txt: clarify the dependency caveats Clone drivers do not require to run after upsd, but may need to start after the "real" driver whose socket thay leech onto.
- tests/NIT/nit.sh: limit how long we wait for UPS1/UPS2 to begin responding
- configure.ac, docs/configure.txt, docs/nut-qa.txt, tests/NIT/Makefile.am: tests/NIT/Makefile.am \+ configure.ac: introduce --enable-check-NIT
- docs/man/dummy-ups.txt: re-wrap long lines and reword
- docs/man/dummy-ups.txt: highlight that upsrw can not define new variables
- docs/man/dummy-ups.txt: update notes for dummy-once mode ability to re-read file only if it changes
- docs/man/dummy-ups.txt: update notes for dummy-once mode
- docs/man/clone.txt, docs/man/dummy-ups.txt: docs/man/dummy-ups.txt \+ clone.txt: cross-link two man pages to remind about similar use-cases

2.854 2022-04-22 Paweł Rapkiewicz <pawel.rapkiewicz@gmail.com>

- data/driver.list.in, drivers/ever-hid.c, scripts/upower/95-upower-hid.hwdb: Confirm support for ECO Pro AVR CDS series EVER UPS This commit confirms that EVER UPS line *ECO Pro AVR CDS* is supported by NUT, from nowon, nut-scanner will recognize EVER Ups as follows: [nutdev1] driver = "usbhid-ups" port = "auto" vendorid = "2E51" productid = "0000" product = "ECO PRO AVR CDS" serial = "XXXXXXXXXXXXXXXXXXXXXXXXX" vendor = "EVER" bus = "003"

2.855 2022-04-22 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: testcase_sandbox_upsc_query_timer(): do not waste time if we did get the answer we want
- tests/NIT/nit.sh: testcase_sandbox_upsc_query_timer(): for slower testers out there, wait one more cycle
- tests/NIT/nit.sh: ignore message from NSS builds Those tend to add lines like Init SSL without certificate database so we should better grep for expected char sequence
- tests/NIT/nit.sh: add testgroup_sandbox_cppnit_simple_admin() to troubleshoot dummy-ups data propagation
- tests/NIT/nit.sh: testcase_sandbox_start_drivers_after_upsd(): wait for UPS1 and UPS2 to respond
- tests/cpputest-client.cpp: allow up to 10 seconds for SET VAR to propagate into read-back value
- tests/.gitignore: GitIgnore tests/cppnit binary and logs
- docs/nut.dict: Update nut.dict
- tests/NIT/nit.sh: refactor test cases into smaller routines and groups, and allow to select NIT_CASE optionally
- tests/NIT/nit.sh: refactor stop_daemons()
- Makefile.am, tests/Makefile.am, tests/NIT/Makefile.am: tests/NIT/Makefile.am: extend with check-NIT-devel for iterating
- drivers/dstate.c: log start of processing in sock_arg()
- drivers/dstate.c: whitespace fix
- tests/NIT/nit.sh: allow to tweak NUT_DEBUG_MIN
- tests/cpputest-client.cpp: trace values read back after setting
- tests/cpputest-client.cpp: rename "s1" original value reading
- scripts/python/Makefile.am: clean *.pyc and *pycache/* if present

2.856 2022-04-21 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/dummy-ups.c: fix dummy-once mode for relative path in port
- tests/NIT/nit.sh: name the "dummy.seq" so it loops by default
- drivers/main.c: better fix for handling of libtool-named binaries
- tests/NIT/nit.sh: if "Error: Driver not connected" retry with UPSD started after drivers are running
- drivers/main.c: fix the handling of libtool-named binaries
- tests/NIT/nit.sh: "sed -i" requires an extension (may be empty, in BSD must be a separate CLI token, in others must be same token - not empty is ok for all)
- tests/NIT/nit.sh: "sed -i" requires an extension (may be empty, in BSD must be a separate CLI token)
- drivers/dummy-ups.c: cover exhaustive case(enum) with pragmas for diametral warnings
- tests/NIT/nit.sh: extend with mode=... for dummy-ups [#1385]
- NEWS, UPGRADING, docs/man/dummy-ups.txt, drivers/dummy-ups.c: dummy-ups: do re-read a "dummy-once" file, though only if it changes while the driver runs r the commit message for your changes. Lines starting
- NEWS, UPGRADING, docs/man/dummy-ups.txt, drivers/dummy-ups.c: dummy-ups: separate MODE_DUMMY_ONCE from MODE_DUMMY_LOOP Closes: #1385
- docs/man/dummy-ups.txt: small rewording

- drivers/dummy-ups.c: refactor "mode" from random defines to an enum
- include/str.h, common/str.c: add str_ends_with()
- tests/NIT/nit.sh: make sure ups.status is not pre-defined empty in test sandbox
- tests/cpputest-client.cpp: test_auth_user(): bail out if "ups.status" reply is empty
- tests/NIT/nit.sh: report DEBUG_SLEEP mode more usefully
- tests/NIT/nit.sh: spell out 127.0.0.1 and ::1 if detected supported on local system - do not rely on ping CLI alone
- tests/NIT/nit.sh: spell out 127.0.0.1 and ::1 if detected supported on local system

2.857 2022-04-20 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/nit.sh: report issues more usefully for troubleshooting CI
- tests/NIT/Makefile.am: use more portable clumsier code
- drivers/main.c: accept "lt-PROGNAME" to run libtool-wrapped builds during development
- tests/NIT/nit.sh: Avoid dummies with TIMER flip-flops for cppnit if we can
- tests/Makefile.am: do not run "cppnit" as part of TESTS, only give a recipe to build it
- clients/nutclient.h, tests/Makefile.am, tests/NIT/nit.sh, tests/cpputest-client.cpp: NutActiveClientTest: introduce C+\+ NutActiveClientTest for NIT and similar uses
- tests/NIT/nit.sh: log OVERALL results before DEBUG_SLEEP
- tests/NIT/nit.sh: refactor upsd.users passwords as shell vars to ease reuse
- tests/NIT/nit.sh: check that test_nutclient.py was generated before running it; export NUT_PORT just once
- tests/NIT/nit.sh: embed weak randomization of NUT_PORT At least this little magic is better than a hardcoded number: if several CI executors run `make check` at once on same host, they now have a decent chance to not collide (not guaranteed though)
- tests/NIT/nit.sh: let caller customize NUT_PORT
- Makefile.am, configure.ac, tests/Makefile.am, tests/NIT/.gitignore, tests/NIT/Makefile.am: Add tests/NIT/Makefile.am for straightforward integration of the test suite
- configure.ac, tests/Makefile.am: configure.ac: fix detection of cppunit on some platforms Note for posterity: CFLAGS go before source, LDFLAGS+LIBS after source, in g+\+ cmdline
- Makefile.am: fix "make check-docs" and siblings from root dir
- Makefile.am: let "make check-NIT" from root dir
- tests/NIT/README, tests/NIT/nit.sh: tests/NIT: warn in docs/comments that starting pwd should be the BUILDDIR
- tests/Makefile.am: help check-NIT pass in distcheck (cleaner)
- tests/NIT/README, tests/NIT/nit.sh: tests/NIT/README: update a bit
- tests/Makefile.am: help check-NIT pass in distcheck
- docs/nut-qa.txt: mention NUT NIT and update links to Ubuntu QART
- tests/NIT/nit.sh: make some debug noise optional
- tests/NIT/nit.sh: typo fix for SRCDIR
- tests/NIT/nit.sh: sanity checks for BUILDDIR
- tests/NIT/nit.sh: bail out quickly if got no daemons to run
- tests/Makefile.am: call NIT suite
- tests/NIT/nit.sh: document DEBUG_SLEEP a bit

2.858 2022-04-19 Jim Klimov <jimklimov+nut@gmail.com>

- tests/NIT/.gitignore, tests/NIT/README, tests/NIT/nit.sh: NIT: NUT Integration Tests (usable PoC) [another take at issue #3]
- clients/upsrw.c, docs/man/upsrw.txt: upsrw: accept "-l" for listing Closes: #1382
- scripts/python/module/test_nutclient.py.in: test_nutclient.py.in: allow to override NUT_PORT, NUT_USER, NUT_PASS
- conf/ups.conf.sample: update with info from docs/man/ups.conf.txt

2.859 2022-04-18 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/cyberpower-mib.c: update cyberpower_power_status[] with new values [#1377]
- clients/nutclient.cpp: clients/nutclient.{cpp,h}: deviceMaster()/devicePrimary(): add fallback handling with the other keyword [#840, #1374]
- clients/nutclient.cpp, clients/nutclient.h, clients/nutclientmem.cpp, clients/nutclientmem.h, docs/man/libnutclient_misc.txt: add PRIMARY handling [#840] Closes: #1374
- clients/nutclient.cpp, clients/nutclient.h, docs/man/libnutclient_tcp.txt: clients/nutclient.{cpp,h} docs/man/libnutclient_tcp.txt: fix timeout from long to time_t Closes: #1376
- clients/upsc.c, clients/upsclient.c, clients/upsclient.h, clients/upscmd.c, clients/upsimage.c, clients/upslog.c, clients/upsmon.h, clients/upsrw.c, clients/upsset.c, clients/upsstats.c, docs/man/upscli_connect.txt, drivers/dummy-ups.c: clients/upsclient.{c,h} and many clients \+ dummy-ups: fix port from int to uint16_t Closes: #1379
- docs/man/libnutclient_variables.txt: fix English
- clients/upsclient.h: fix whitespace
- clients/upsclient.c, clients/upsclient.h, docs/man/upscli_readline.txt, docs/man/upscli_sendline.txt: clients/upsclient.{c,h} docs/man/upscli_{read,send}line.txt: fix timeout from long to time_t Closes: #1373
- clients/nutclient.cpp, clients/nutclient.h, docs/man/libnutclient_tcp.txt, docs/nut.dict: clients/nutclient.{cpp,h}: fix port type from unsigned short to uint16_t Closes: #1375
- docs/man/Makefile.am: `$(<F)` is not POSIX compliant, while `$(@F)` is, go figure [#1362 follow-up]

2.860 2022-04-17 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/Makefile.am: abstract filenames into LINKMAN_INCLUDE_GENERATED macro

2.861 2022-04-16 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/Makefile.am: DOCBUILD_BEGIN: work around older BSD make not seeing sources not present in builddir It seems to resolve single-source documents well, but fails to find the upsd.txt which depends on linkman*-names.txt and build a proper relative path to it.
- docs/man/Makefile.am: ensure linkman-drivertool*names.txt are in builddir
- docs/man/Makefile.am: ensure linkman-drivertool*names.txt are in A2X_OUTDIR
- docs/man/Makefile.am: avoid spurious regeneration of linkman-drivertool*names.txt whenever we reference them
- docs/man/Makefile.am: generate linkman-drivertool*names.txt independent of current dir being srcdir
- ci_build.sh: "cat" the "git diff"

2.862 2022-04-15 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/libnutclient_general.txt, docs/man/libnutclient_misc.txt, docs/man/libnutclient_tcp.txt, docs/man/libnutclient_variables.txt, docs/man/libupsclient-config.txt, docs/nut.dict: docs/man/libnutclient*.txt: wrap long lines, minor rephrase, bullet points
- docs/man/libnutclient_commands.txt, docs/man/libnutclient_devices.txt: docs/man/libnutclient_devices.txt, libnutclient_commands.t synopsis for strarr
- docs/man/libnutclient_devices.txt: wrap long lines, minor rephrase, bullet points
- docs/man/libnutclient_commands.txt: wrap long lines, minor rephrase, bullet points; added optional param arg in API
- docs/man/upscli_strerror.txt: fix return type modifier to const
- docs/man/upscli_add_host_cert.txt, docs/man/upscli_cleanup.txt, docs/man/upscli_disconnect.txt, docs/man/upscli_fd.txt, docs/man/upscli_get.txt, docs/man/upscli_init.txt, docs/man/upscli_list_next.txt, docs/man/upscli_readline.txt, docs/man/upscli_sendline docs/man/upscli_splitaddr.txt: docs/man/upscli*.txt: wrap long lines, minor rephrase
- docs/man/nutscan_init.txt, docs/man/nutscan_new_device.txt, docs/man/nutscan_scan_usb.txt: docs/man/nutscan*.txt: document methods with (void) arg list as such
- docs/man/Makefile.am, docs/man/index.txt, docs/man/nutscan.txt, docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_ad docs/man/nutscan_cidr_to_ip.txt, docs/man/nutscan_display_parsable.txt, docs/man/nutscan_display_ups_conf.txt, docs/man/nutscan docs/man/nutscan_get_serial_ports_list.txt, docs/man/nutscan_init.txt, docs/man/nutscan_new_device.txt, docs/man/nutscan_scan_av docs/man/nutscan_scan_eaton_serial.txt, docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan_nut.txt, docs/man/nutscan_scan_s docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt, docs/man/nutscan_scan_xml_http_range.txt: docs/man/nutsca document the method which got extended from original nutscan_scan_xml_http() doing just a local broadcast
- docs/man/nutscan_scan_ipmi.txt: document the method which now is implemented
- docs/man/nutscan.txt, docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_add_option_to_device.txt, docs/man/nutscan_ docs/man/nutscan_free_device.txt, docs/man/nutscan_get_serial_ports_list.txt, docs/man/nutscan_init.txt, docs/man/nutscan_new_dev docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_eaton_serial.txt, docs/man/nutscan_scan_nut.txt, docs/man/nutscan_scan_ docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt: docs/man/nutscan*.txt: wrap long lines, minor rephrase, fix timeouts to useconds_t
- docs/nut.dict: spellcheck drivertool
- docs/man/apcsmart-old.txt, docs/man/apcsmart.txt, docs/man/asem.txt, docs/man/bcmxcp_usb.txt, docs/man/liebert-esp2.txt, docs/man/macosx-ups.txt, docs/man/microsol-apc.txt, docs/man/nut.conf.txt, docs/man/nutdrv_atcl_usb.txt, docs/man/nutdrv_qx.txt, docs/man/nutdrv_siemens_sitop.txt, docs/man/oneac.txt, docs/man/optiups.txt, docs/man/upscode2.txt, docs/man/usbhid-ups.txt: docs/man/*.txt: reformat AUTHOR(S) and INTERNET RESOURCES blocks to common style
- docs/man/upsdrvsvcctl.txt: list Jim Klimov as the AUTHOR
- docs/man/nut-driver-enumerator.txt: list Jim Klimov as the AUTHOR
- docs/man/snmp-ups.txt: list AUTHORS as a bulleted list and add Jim Klimov
- docs/man/snmp-ups.txt: wrap long lines and reword a bit
- docs/man/optiups.txt: wrap long lines
- docs/man/phoenixcontact_modbus.txt: wrap long lines
- docs/man/belkinunv.txt: add link to protocol description copy on NUT site
- docs/support.txt: mention github instead of subversion
- docs/man/.gitignore, docs/man/Makefile.am, docs/man/index.txt, docs/man/nutupsdrv.txt, docs/man/upsd.txt: docs/man/index.txt, upsd.txt, nutupsdrv.txt: generate the up-to-date list of drivers, current for each iteration
- docs/man/index.txt, docs/man/nutupsdrv.txt, docs/man/upsd.txt: docs/man/upsd.txt, nutupsdrv.txt, index.txt: move common nutupsdrv[8] from the bulk of driver list

- docs/man/nutupsdrv.txt, docs/man/upsd.txt: docs/man/upsd.txt, nutupsdrv.txt: generate current list of drivers
- docs/man/index.txt: generate current list of drivers, separate "Driver Control" title
- docs/man/nutupsdrv.txt, docs/man/upsd.txt: docs/man/upsd.txt, nutupsdrv.txt: reformat lists of drivers and tools to bullet lists
- docs/Makefile.am: DOCBUILD_BEGIN: symlink images/ ONLY for PDF generation
- ci_build.sh: add notes to Consider `--enable-maintainer-mode`
- .gitignore: GitIgnore IDEA metadata files
- docs/.gitignore: GitIgnore more intermediate XML files from docs generation

2.863 2022-04-14 Jim Klimov <jimklimov@gmail.com>

- docs/Makefile.am: A2X_COMMON_OPTS: use "--attribute=..." consistently
- docs/Makefile.am: have "images/" in A2X_OUTDIR (fallout of #1152) Closes: #1365

2.864 2022-04-14 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nutscan_display_parsable.txt, docs/man/nutscan_display_ups_conf.txt, docs/man/nutscan_free_device.txt, docs/man/nutsca
  docs/man/nutscan*.txt: fix formatting and typos
- docs/man/upscli_get.txt, docs/man/upscli_init.txt, docs/man/upscli_list_start.txt: docs/man/upscli*.txt: fix sample source formatting
- docs/man/upsmon.txt: reword a dangling sentence
- docs/man/tripplite_usb.txt: fix formatting
- docs/man/riello_ser.txt: fix formatting
- docs/man/riello_usb.txt: fix formatting
- docs/man/snmp-ups.txt: fix sample source formatting
- docs/man/socomec_jbus.txt: fix formatting and typos
- docs/man/Makefile.am, docs/nut.dict: docs/man/Makefile.am: list the socomec_jbus.txt
- docs/man/pijuice.txt: fix formatting
- docs/man/nutdrv_qx.txt: fix formatting
- docs/man/nutdrv_atcl_usb.txt: fix formatting
- docs/man/nut.conf.txt: fix sample source formatting
- docs/man/mge-utalk.txt: fix formatting
- docs/man/liebert-esp2.txt: fix formatting
- docs/man/clone.txt: fix sample source formatting
- docs/man/bestups.txt, docs/man/blazer-common.txt, docs/man/masterguard.txt: docs/man/blazer-common.txt, masterguard.txt, bestups.txt: fix formatting [#1361]
- docs/man/adelsystem_cbi.txt: fix formatting
- docs/sock-protocol.txt: fix formatting
- docs/snmp-subdrivers.txt: small typo

- docs/packager-guide.txt: reshuffle known names
- docs/nut-qa.txt: list a few more tools we use
- TODO, docs/nut-qa.txt: Fix remaining links to asciidoc.org
- docs/nut-names.txt: fix table formatting
- docs/new-clients.txt: fix sample source formatting
- docs/net-protocol.txt: fix version table formatting
- docs/FAQ.txt: fix formatting, extend some notes
- docs/nut.dict: Update nut.dict
- docs/developers.txt: fix formatting, extend some notes
- docs/developer-guide.txt: fix formatting; update URL to evolution500.seq
- docs/design.txt: fix formatting; note FIXMEs for documenting TRACKING support
- docs/daisychain.txt: fix formatting
- drivers/snmp-ups.h: update comment to clarify the meaning of SU_TYPE_DAISY_1 and SU_TYPE_DAISY_2
- docs/configure.txt: fix formatting, add titles, extend some notes
- docs/configure.txt: add a section on modbus drivers
- docs/configure.txt: link to powerman project
- docs/configure.txt: fix formatting, add driver type titles, extend some notes
- docs/config-prereqs.txt: fix formatting, extend some notes
- docs/solaris-usb.txt: drop suggestions about building special libusb-1.0/0.1 branches
- docs/solaris-usb.txt: fix formatting, extend some notes
- docs/solaris-usb.txt: add a NOTE for USB drivers ignoring port option [#1368]
- docs/config-notes.txt: fix formatting, extend some notes and warnings, and service-driven life-cycle
- docs/config-notes.txt: document ALLOW_NO_DEVICE for upsd.conf [#766, #837]
- docs/config-notes.txt: reformat and extend the NOTE for USB drivers ignoring port option [#1368]
- ci_build.sh, docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: fix formatting, extend on Jenkins agent setup
- ci_build.sh: use "gmake" for "./ci_build.sh spellcheck" if available and no particular MAKE was requested - fall back to "make" if "gmake" is not available

2.865 2022-04-13 Jim Klimov <jimklimov+nut@gmail.com>

- docs/asciidoc.txt: update link to the Asciidoc Manual (and project now on github)

2.866 2022-04-12 Jim Klimov <jimklimov@gmail.com>

- Makefile.am: define dependencies between recipes for dist* and package; tarball, sig and checksum filenames

2.867 2022-04-10 Jim Klimov <jimklimov+nut@gmail.com>

- docs/daisychain.txt, docs/man/adelsystem_cbi.txt, docs/man/al175.txt, docs/man/apcsmart-old.txt, docs/man/apcsmart.txt, docs/man/a ups.txt, docs/man/asem.txt, docs/man/bcmxcp.txt, docs/man/bcmxcp_usb.txt, docs/man/belkin.txt, docs/man/belkinunv.txt, docs/man/bestfcom.txt, docs/man/bestfortress.txt, docs/man/bestuferrups.txt, docs/man/bestups.txt, docs/man/blazer-common.txt, docs/man/clone.txt, docs/man/dummy-ups.txt, docs/man/etapro.txt, docs/man/everups.txt, docs/man/gamatronic.txt, docs/man/generic_modbus.txt, docs/man/genericups.txt, docs/man/hosts.conf.txt, docs/man/huawei-ups2000.txt, docs/man/isbmex.txt, docs/man/ivtscd.txt, docs/man/libnutclient.txt, docs/man/libnutclient_commands.txt, docs/man/libnutclient_devices.txt, docs/man/libnutclient_general.txt, docs/man/libnutclient_misc.txt, docs/man/libnutclient_tcp.txt, docs/man/libnutclient_variables.txt, docs/man/libupsclient-config.txt, docs/man/liebert-esp2.txt, docs/man/liebert.txt, docs/man/macosx-ups.txt, docs/man/masterguard.txt, docs/man/metasys.txt, docs/man/mge-shut.txt, docs/man/mge-utalk.txt, docs/man/microdowell.txt, docs/man/microsol-apc.txt, docs/man/netxml-ups.txt, docs/man/nut-driver-enumerator.txt, docs/man/nut-ipmipsu.txt, docs/man/nut-recorder.txt, docs/man/nut-scanner.txt, docs/man/nut.conf.txt, docs/man/nutdrv_atcl_usb.txt, docs/man/nutdrv_siemens_sitop.txt, docs/man/nutsca docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_add_option_to_device.txt, docs/man/nutscan_cidr_to_ip.txt, docs/man/nutscan_display_parsable.txt, docs/man/nutscan_display_ups_conf.txt, docs/man/nutscan_free_device.txt, docs/man/nutsca docs/man/nutscan_init.txt, docs/man/nutscan_new_device.txt, docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_eaton_seria docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan_nut.txt, docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt, docs/man/nutupsdrv.txt, docs/man/oneac.txt, docs/man/optiups.txt, docs/man/phoenix-contact_modbus.txt, docs/man/pijuice.txt, docs/man/powercom.txt, docs/man/powerman-pdu.txt, docs/man/powerpanel.txt, docs/man/rhino.txt, docs/man/richcomm_usb.txt, docs/man/riello_ser.txt, docs/man/riello_usb.txt, docs/man/safenet.txt, docs/man/skel.tx docs/man/snmp-ups.txt, docs/man/socomec_jbus.txt, docs/man/solis.txt, docs/man/tripplite.txt, docs/man/tripplite_usb.txt, docs/man/tripplitesu.txt, docs/man/ups.conf.txt, docs/man/upsc.txt, docs/man/upscli_add_host_cert.txt, docs/man/upscli_cleanup.txt, docs/man/upscli_connect.txt, docs/man/upscli_disconnect.txt, docs/man/upscli_get.txt, docs/man/upscli_init.txt, docs/man/upscli_list_next.txt, docs/man/upscli_list_start.txt, docs/man/upscli_readline.txt, docs/man/upscli_sendline.txt, docs/man/upscli_splitnar docs/man/upsclient.txt, docs/man/upscmd.txt, docs/man/upscode2.txt, docs/man/upsd.conf.txt, docs/man/upsd.txt, docs/man/upsd.use docs/man/upsdrvctl.txt, docs/man/upsdrvsvcctl.txt, docs/man/upsimage.cgi.txt, docs/man/upslog.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/man/upsrw.txt, docs/man/upssched.conf.txt, docs/man/upssched.txt, docs/man/upsset.cgi.txt, docs/man/upsset.conf.txt, docs/man/upsstats.cgi.txt, docs/man/upsstats.html.txt, docs/man/usbhid-ups.txt, docs/man/victronups.txt, docs/nut-names.txt, docs/packager-guide.txt: docs/man: be sure to keep a blank line after SYNOPSIS and other titles [#1362]
- docs/FAQ.txt: clarify about nutdrv_qx
- UPGRADING: detail about "OBSOLETION WARNING" for "Megatec Q*"
- docs/man/bestups.txt, docs/man/blazer-common.txt, docs/man/masterguard.txt, drivers/bestups.c, drivers/blazer.c, drivers/masterguard.c: Report deprecation messages when starting older Qx drivers And document similarly in their man pages (bestups, blazer, masterguard)
- docs/FAQ.txt, docs/nut.dict: docs/FAQ.txt: add more reasons and symptoms that a running driver disappears
- docs/FAQ.txt, docs/nut.dict: docs/FAQ.txt: suggest checking Linux USB HID Quirk [#630]
- ci_build.sh: use "gmake" for "./ci_build.sh spellcheck" if available and no particular MAKE was requested
- docs/FAQ.txt, docs/nut.dict: docs/FAQ.txt: suggest how to pick drivers for bogus vendor IDs
- drivers/usbhid-ups.c: bump version for #1356 and #1359
- drivers/tripplite_usb.c: bump version for #584
- drivers/mge-hid.c: bump version for #1357

2.868 2022-04-09 Stuart Henderson <sthen@users.noreply.github.com>

- drivers/usbhid-ups.c: reinstate handling for STATUS(ONLINE) in usbhid-ups The recent onlinedischarge changes removed support for some STATUS(ONLINE) cases, affecting at least CP1300EPFCLCD - this brings them back.

2.869 2022-04-08 Jim Klimov <jimklimov@gmail.com>

- NEWS: tripplite_usb recognizes "3005" protocol for NUT v2.7.5

2.870 2022-04-08 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS: note Liebert/Phoenixtec vs MGE HID handling of VendorID 0x06da
- drivers/mge-hid.c: mge_claim(): test that VendorID==PHOENIXTEC 0x06da has also Vendor or Product containing "AEG"
- data/driver.list.in: update for "PowerWalker VFI 2000 TGS" via "usbhid-ups" [#564]
- docs/man/usbhid-ups.txt: update for "some PowerWalker models"
- NEWS, docs/nut.dict: NEWS: improve PowerWalker VFI 2000 TGS support in NUT v2.7.5
- drivers/liebert-hid.c, drivers/mge-hid.c: drivers/liebert-hid.c: get PowerWalker VFI 2000 TGS working, read values correctly This reverts commit c38b45a56a9d1283657d62a9fa1ed1af5daa1ba2 which added such support into mge-hid.c (at risk to proper support of earlier handled devices by various vendors), and transplants the new lines into liebert-hid.c See issue #560 for a HID walk from the device in question; data like that may help expand liebert-hid.c later (its table seems to map a lot less field names than mge-hid.c, but not sure if "true" Liebert/Phoenixtec HID devices support the rest).

2.871 2022-04-07 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: update spellchecker
- docs/nut.dict: update spellchecker

2.872 2022-04-07 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usbhid-ups.c: instcmd(): do not risk NULL-dereference debugging about "using Path" with a NULL hidpath (just in case) [#1346]
- drivers/usbhid-ups.c: instcmd(): do not risk NULL-dereference debugging about "using Path" too early [#1346]
- drivers/usbhid-ups.c: instcmd(): wrap some long lines

2.873 2022-04-05 Jim Klimov <jimklimov@gmail.com>

- docs/man/upsmon.conf.txt: fix markup (pluses make emphasis and xmllint goes upset)

2.874 2022-04-04 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: prepare for next iterations after release of NUT v2.8.0
- configure.ac: prepare for next iterations after release of NUT v2.8.0
- configure.ac: cut the release of NUT v2.8.0
- tools/nut-scanner/Makefile.am, clients/Makefile.am: bump "version-info" for NUT v2.8.0 Development since 2.7.4 release included changes to code structure, fought warnings, and might impact ABI/API by the changes to arguments (specific integer types and size_t vs. architecture-dependent choice).
- configure.ac: cut the release of NUT v2.8.0
- tools/nut-scanner/Makefile.am, clients/Makefile.am: bump "version-info" for NUT v2.8.0 Development since 2.7.4 release included changes to code structure, fought warnings, and might impact ABI/API by the changes to arguments (specific integer types and size_t vs. architecture-dependent choice).
- configure.ac, include/Makefile.am: avoid picking "vX.Y.Z-signed" tags more actively
- configure.ac, include/Makefile.am: avoid picking "vX.Y.Z-signed" tags, only "vX.Y.Z" name denotes the release officially

- configure.ac: fall back to exclude-only filter of "git describe" tags if autoconf/m4/shell messes up the "match" ones
- INSTALL.nut: add another perspective on packages vs source builds; refer to config-prereqs.txt
- INSTALL.nut: trim trailing spaces
- README: trim trailing spaces
- README: clarify use of github
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: clarify pre-installation of python and perl
- docs/config-prereqs.txt: clarify that non-GNU makes should work well

2.875 2022-04-02 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/app/NUT-Monitor: fix typo, thank CI
- UPGRADING: detail the Py2/Py3 packages
- UPGRADING: make note of systemd and Py2/3 changes on top for packagers to see
- NEWS: detail the split of NUT-Monitor and new wrapper script
- scripts/python/app/README: update with sections; list Desktop menu integration and Kudos
- scripts/python/app/.gitignore, scripts/python/app/NUT-Monitor, scripts/python/app/nut-monitor.desktop: Introduce new NUT-Monitor name-holder as a wrapping script to pick usable implementation
- scripts/python/app/.gitignore: GitIgnore newly named variants of NUT-Monitor-py2gtk2 and NUT-Monitor-py3qt5
- scripts/python/app/README: document how to get localized UI in dev/testing
- scripts/python/app/README: document how to run UI app in-place
- m4/nut_check_python.m4: extend list of some python interpreter filenames
- configure.ac, scripts/python/Makefile.am, scripts/python/app/{NUT-Monitor.in ⇒ NUT-Monitor-py2gtk2.in}, scripts/python/app/nut-monitor-py2gtk2.desktop, scripts/python/app/nut-monitor.desktop, scripts/python/app/{ ⇒ ui}/gui-1.3.glade, scripts/python/app/{ ⇒ ui}/gui-1.3.glade.h: Rename NUT-Monitor UI app to NUT-Monitor-py2gtk2
- configure.ac, scripts/python/Makefile.am, scripts/python/app/{NUT-Monitor.in ⇒ NUT-Monitor-py3qt5.in}, scripts/python/app/nut-monitor-py3qt5.desktop, scripts/python/app/nut-monitor.desktop: Rename modernized NUT-Monitor UI app to NUT-Monitor-py3qt5

2.876 2022-04-01 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/python/README: clarify that `test_nutclient.py` requires an `upsd` running
- scripts/python/module/PyNUT.py.in: fix typo (fallout of #840)
- docs/config-prereqs.txt: fix typos in OpenIndiana chapter
- NEWS, docs/net-protocol.txt, docs/nut.dict, server/netcmds.h: Add "PROTVER" as alias to "NETVER" for NUT v2.8.0 Closes: #1347

2.877 2022-03-31 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am, docs/Makefile.am, docs/man/Makefile.am: {.,docs,docs/man}/Makefile.am: add "all-man" target to build all possible man pages (vs ones for enabled drivers), and weave this and check targets to parent makefiles
- ci_build.sh: introduce shortcut for BUILD_TYPE=fightwarn-all
- ci_build.sh: in BUILD_TYPE=default-all-errors report visibly when no failures happened
- m4/nut_compiler_family.m4: treat /usr/pkg/include as -isystem
- common/parseconf.c, common/str.c, drivers/apcsmart-old.c, drivers/apcsmart.c, drivers/mge-utalk.c, drivers/serial.c, drivers/snmp-ups.c, server/conf.c: Cast (size_t)(char) for isprint(), isspace(), isdigit(), toupper(), etc. who may be macros and use it as array subscript (due to sys/ctype_inline.h)

2.878 2022-03-30 Jim Klimov <jimklimov+nut@gmail.com>

- autogen.sh: suggest to export PYTHON=python-x.y
- autogen.sh: detect more python-x.y filenames
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: add chapter for NetBSD 9.2 builder setup
- docs/config-prereqs.txt: drop bogus command (copy-paste typo)

2.879 2022-03-29 Jim Klimov <jimklimov@gmail.com>

- .github/pull_request_template.md: Update pull_request_template.md

2.880 2022-03-28 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: recognize more "*bsd" CI_OS_NAME values
- ci_build.sh: do not make noise about non-ubiquitous options to "uname" program
- drivers/usbhid-ups.c: set the onlinedischarge variable based on flag presence
- drivers/usbhid-ups.c: drop DEFAULT_ONLINEDISCHARGE to match "VAR_FLAG" semantics
- docs/nut.dict: add onlinedischarge
- NEWS: clarify that NUT 2.8.0 is new name for old planned NUT 2.7.5
- NEWS: added usbhid-ups onlinedischarge for NUT v2.7.5
- docs/man/usbhid-ups.txt: document onlinedischarge
- drivers/usbhid-ups.c: fix var usage for upsname
- drivers/usbhid-ups.c: fix format string for "onlinedischarge" help

2.881 2022-03-28 Benjamin Berg <bberg@redhat.com>

- scripts/upower/95-upower-hid.hwdb, scripts/upower/95-upower-hid.rules, tools/nut-usbinfo.pl: tools/nut-usbinfo.pl: Use hwdb for UPower rules

2.882 2022-03-26 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: default to clang if also available when default gcc is too old

2.883 2022-03-25 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt: update openbsd tools for man-page builds
- Jenkinsfile-dynamatrix: avoid failure-prone build toolkits for manpage tests
- m4/nut_compiler_family.m4: avoid configure noise message
- m4/ax_check_compile_flag.m4: extend to check conftest.err log about unsupported flags
- Jenkinsfile-dynamatrix: define axisCombos_COMPILER_GCC_TOO_OLD near other compiler-related combos
- Jenkinsfile-dynamatrix: fix scenarios with "non-fatal warnings" that had BUILD_WARNFATAL=yes anyway (copy-paste issue)

2.884 2022-03-24 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: avoid even running axisCombos_GCC_TOO_OLD where we require fatal warnings
- configure.ac: for very old GCC where we are not in control of warnings, make them non-fatal always (for "auto" level)
- drivers/libhid.c: clang-3.4 does not know "-Wtautological-type-limit-compare" either
- Jenkinsfile-dynamatrix: make use of dsbcStageTimeoutSettings

2.885 2022-03-23 Yifeng Li <tomli@tomli.me>

- drivers/huawei-ups2000.c: huawei-ups2000.c: ups2000_read_serial(): documenting the useless range-check.
- drivers/huawei-ups2000.c: huawei-ups2000.c: remove useless CRC range check After crc16() has been modified to accept a size_t length, it's unnecessary to check whether the input length is greater than UINT16_MAX. Also, the check on whether ident_response_len is at least as long as the IDENT_RESPONSE_CRC_LEN is useless, since this condition is already implied by the previous check in step 2, it's thus removed.
- drivers/huawei-ups2000.c: huawei-ups2000.c: crc16(): use size_t instead of uint16_t. This removes the unnecessary casts in between. Also, size_t is semantically more correct than uint16_t.
- drivers/huawei-ups2000.c: huawei-ups2000.c: ups2000_device_identification(): remove superfluous casts in crc16 calculations The initial code didn't cast to uint16_t and was certainly a bug, but to fix that, only a single cast is needed, not three casts.
- drivers/huawei-ups2000.c: huawei-ups2000.c: crc16(): remove superfluous casts to uint16_t when bit-shifting The initial code didn't cast to uint16_t and was certainly a bug, but to fix that, only a single cast is needed, not three casts.

2.886 2022-03-23 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: with nut_enable_warnings=auto, avoid fatal warnings with GCC 4.3 or older (no support for diags pragmas)
- configure.ac: report initial nut_enable_warnings (default or argument)
- configure.ac: pre-set nut_enable_warnings=auto by default (not hardcoded "medium")
- ci_build.sh: set BUILD_WARNOPT and BUILD_WARNFATAL to "auto" for BUILD_TYPE="fightwarn"* shortcuts (survive antique compilers, default to medium/fatal normally)
- ci_build.sh: comment BUILD_WARNOPT setting for BUILD_TYPE="fightwarn"* shortcuts
- m4/nut_compiler_family.m4: enable back the "-isystem" tuning to not complain about packaged third-party headers
- drivers/libhid.c: make use of HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_TAUTOLOGICAL_TYPE_LIMIT_COMPARE (clang-6.0.0 of OpenBSD 6.4)

- m4/ax_c_pragmas.m4: introduce [HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_TAUTOLOGICAL_TYPE_LIMIT_COMPA
- configure.ac: specify AC_PREREQ([2.64])
- m4/nut_check_libgd.m4: fix detection of gdImagePng() with additional link requirements
- configure.ac: document practical requirement for AC_PREREQ(2.64)
- NEWS, UPGRADING, docs/config-notes.txt, docs/man/upscmd.txt, docs/man/upsrw.txt: docs, NEWS, UPGRADING: rename 2.7.5 to 2.8.0 in text that appeared after 2.7.4
- docs/net-protocol.txt: document "PRIMARY" as alias to "MASTER"
- docs/net-protocol.txt: bump next release from 2.7.5 to 2.8.0
- configure.ac: bump NUT_NETVERSION to 1.3 to match docs/net-protocol.txt

2.887 2022-03-21 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/subdriver/gen-snmp-subdriver.sh: fix back markup for mib2nut_info_t lines Follow-up for #1327 Thanks to @aquette

2.888 2022-03-19 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv_qx.c: qx_ups_walk(): log the change of estimated remaining runtime
- NEWS: nutdrv_qx: enhanced estimation of remaining battery runtime for NUT v2.7.5
- drivers/nutdrv_qx.c: comment about source and data for estimated runtime corrections
- drivers/nutdrv_qx.c: fix trailing whitespace
- ci_build.sh: when parsing BUILD_TYPE=fightwarn, do not default NUT_SSL_VARIANTS and NUT_USB_VARIANTS to "auto" - so building just one variant at most, even if agent supports more
- drivers/nutdrv_qx.c: snr_command(): adapt to usb_ctrl_charbuf

2.889 2022-03-16 Jim Klimov <jimklimov@gmail.com>

- NEWS: added driver adelsystem_cbi for NUT v2.7.5
- drivers/adelsystem_cbi.h: functions implemented in a header should be static
- drivers/adelsystem_cbi.c: extend pragmas for covered/requred "default" case to work with clang-3.4

2.890 2022-03-16 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/libhid.h, drivers/usbhid-ups.c: drivers/libhid.h, usbhid-ups.c: define HID_DEV_HANDLE_CLOSED usable for both SHUT and USB cases

2.891 2022-03-15 Jim Klimov <jimklimov@gmail.com>

- ci_build.sh: if we only build USB variant(s), do not shy away from testing some SSL and whatever drivers we can

2.892 2022-03-15 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: retry getting Manufacturer/Product/Serial a few times if failed on the first Kudos to Sam Varshavchik for proposing this code change in discussion https://github.com/networkupstools/nut/issues/-414
- drivers/usbhid-ups.c: try to close libusb handle before reconnecting (from discussion of issue #414)
- docs/config-prereqs.txt: currently refrain from clang-13 in OI
- docs/config-prereqs.txt: mark aspell as recommended (it is not big)
- docs/config-prereqs.txt: update instructions for symlinks on OI
- docs/config-prereqs.txt: fix typos in instructions for OpenIndiana, and update for new toolkits available in 2022

2.893 2022-03-12 juantonio <admin@ofi.linkpc.net>

- drivers/salicru-hid.c: Add tested descriptors for Salicru Twin Pro 2

2.894 2022-03-12 Jim Klimov <jimklimov@gmail.com>

- ci_build.sh: add support for CI_CROSSBUILD_HOST and/or CI_CROSSBUILD_TARGET settings [#1294, #1289, #1334]
- ci_build.sh: check for "gd" as one of names gdlib can go by
- ci_build.sh: use PKG_CONFIG variable if provided (fall back to pkg-config from PATH, but only for this script itself) [#710]
- drivers/salicru-hid.c: Update salicru-hid.c Cosmetic fixes
- m4/nut_check_libnetsnmp.m4: improve checks for actually present priv/auth protocols [#1289] Great thanks to @eklinedi on GitHub for finding the issue and investigating ways to fix it
- drivers/snmp-ups.h: net-snmp after v5.9.1 does not declare ONE_SEC that our code uses; stash the definiton
- configure.ac, m4/ax_c_pragmas.m4, m4/ax_run_or_link_ifelse.m4, m4/nut_compiler_family.m4: Introduce m4/ax_run_or_link_ifelse to facilitate cross-builds [#1289]
- ci_build.sh: report OS_* envvar values if passed by caller
- ci_build.sh: expand a bit CI_OS_HINT detection on linux systems

2.895 2022-03-11 Jim Klimov <jimklimov@gmail.com>

- m4/nut_compiler_family.m4: quiesce -Wreserved-identifier (clang 13\+) that acts up on system headers
- drivers/riello.c: riello_parse_re(): assign Pout#W and Pout#VA from pom_long not pom_word
- drivers/belkinunv.c: instcmd(): find use for "r" to at least report failed cmds

2.896 2022-03-11 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt: rearrange packages to not require heavy ones by default dependency footprint (aspell, docs generation and libgd)
- server/netuser.c: copy-paste typo fix
- NEWS, UPGRADING: NEWS: rename pending NUT release from 2.7.5 to 2.8.0 (config files using new keywords are not backwards-compatible, not usable by old binaries)

- NEWS: added battery.mfr.date APC HID UPS setting for NUT v2.7.5
- NEWS, docs/nut.dict: NEWS: added socomec_jbus driver for NUT v2.7.5
- server/netuser.c: net_master(): provide more details about client using deprecated commands
- docs/net-protocol.txt: update for "PRIMARY" netcmd support (alias of "MASTER") [issue #840]
- NEWS: update for "PRIMARY" netcmd support (alias of "MASTER") [issue #840]
- scripts/python/module/PyNUT.py.in, server/netcmds.h, server/netuser.c, server/netuser.h: netcmds.h, netuser.{c,h}, PyNUT.py.in: deprecate protocol "MASTER" command in favor of "PRIMARY" [issue #840]
- server/upsd.c: check_command(): instrument with upsdebugx()
- server/netuser.c: net_login(): instrument with upsdebugx()
- clients/upsmon.c: apply_for_primary(): request elevation by PRIMARY, fall back to MASTER (for older upsd builds)
- NEWS, UPGRADING: NEWS: rename pending NUT release from 2.7.5 to 2.8.0 (config files using new keywords are not backwards-compatible, not usable by old binaries)

2.897 2022-03-10 Jim Klimov <jimklimov@gmail.com>

- scripts/subdriver/gen-snmp-subdriver.sh: Update gen-snmp-subdriver.sh Quote variable expansions; replace `echo -n` with a more portable `printf`

2.898 2022-03-10 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/subdriver/gen-snmp-subdriver.sh: gen-snmp-subdriver.sh: put back indented CFILE markup (fix here-docs, instead of unmaintainable printf)
- scripts/subdriver/gen-snmp-subdriver.sh: gen-snmp-subdriver.sh: fix valid chars HOSTNAME input (e.g. IP)

2.899 2022-03-10 Arnaud Quette <ArnaudQuette@eaton.com>

- scripts/subdriver/gen-snmp-subdriver.sh: SNMP subdriver generation script: minor reformatting
- scripts/subdriver/gen-snmp-subdriver.sh: SNMP subdriver generation script: fixes and improvements

2.900 2022-03-08 Thanos Chatziathanassiou <tchatzi@arx.net>

- docs/man/socomec_jbus.txt: some documentatyion fixes

2.901 2022-03-08 Jim Klimov <jimklimov+nut@gmail.com>

- tests/getvaluetest.c: check different methods to combine two "wire" bytes into a lenght word (follows up for #1320), hopefully all work the same on all architectures
- drivers/nutdrv_qx.c: simplify back the bit-maths to cast into uint8_t following discussion in #1320
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: simplify back the bit-maths to cast into uint8_t following discussion in #1320

2.902 2022-03-07 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/tripplite_usb.c: fix (commented-away) hard_shutdown() to "unsigned char" and bit maths similar to soft_shutdown()
- drivers/riello_usb.c: Get_USB_Packet(): cast bit maths to (unsigned char) to err on safe side
- drivers/riello_usb.c: whitespace fix
- drivers/nutdrv_qx.c: upsdrv_initups(): cast langid calculations to uint16_t (or wider) [similar to #1320]
- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{1,0}.c: [follow-up from #1320]
- drivers/libshut.c: shut_checksum(): address (usb_ctrl_charbuf)buf as (unsigned char) in bit maths
- drivers/libshut.c: BYTESWAP(): cast "in" to (uint16_t) for bit maths and use a full-width mask
- drivers/blazer_usb.c: upsdrv_initups(): address (usb_ctrl_charbuf)tbuf as (unsigned char) in bit maths

2.903 2022-03-02 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/snmp-ups.h: make sure WITH_SNMP_LKP_FUN_DUMMY is defined
- drivers/mge-xml.c: mge_drycontact_info(): avoid shadowing global variable
- docs/config-prereqs.txt: suggest updating JDK certs for OpenBSD (actually applies to others too)
- docs/config-prereqs.txt: suggest gcc/clang versioned symlinks for building NUT CI in openbsd
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: clarify how to update openbsd /etc/installurl
- docs/config-prereqs.txt: bash was suggested among "comfortable environment packages" and busybox is missing for openbsd
- docs/config-prereqs.txt: suggest comfortable environment packages for openbsd
- docs/config-prereqs.txt: fix openbsd example wording

2.904 2022-02-28 Nick Briggs <nicholas.h.briggs@gmail.com>

- drivers/libusb0.c: Cast to unsigned type when interpreting HID descriptor length bytes (libusb 0.1) The libusb 0.1 interface definition declares a (signed) char type for control messages. The HID descriptor length contained within a control message is intended to be interpreted as a pair of unsigned bytes so we must cast to uint8_t when doing the arithmetic rather than trip over the sign bit. Closes #1261, closes #1312.

2.905 2022-02-27 Nita Vesa <werecatf@outlook.com>

- drivers/apc-hid.c, drivers/usbhid-ups.c: APC HID UPS: Add ability to set battery battery.mfr.date Some APC UPSes allow for setting battery.mfr.date, so it can be easily referenced later, even if there were no stickers or papers left to refer to. This patch has been tested to work with APC Back-UPS ES 550G.

2.906 2022-02-27 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/snmp-ups.c: daisychain_init(): add debug trace
- drivers/eaton-pdu-marlin-helpers.c: marlin_device_count_fun(): add debug trace

2.907 2022-02-27 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: extend daisychain initialization to use optional mapping function Note: ported sub-set of "snmp-ups.[ch] : add support for extended fun/nuf l2s/s2l conversions and use it for daisychain initialization" without the actual 2x2 "fun/nuf l2s/s2l" support here.
- drivers/snmp-ups.c: whitespace fix
- drivers/eaton-pdu-marlin-mib.c: resync comments and use of SU_FLAG_SEMI_STATIC
- drivers/snmp-ups.c: avoid stringop-truncation warning: make sure string is finite
- drivers/snmp-ups-helpers.c, drivers/snmp-ups.c: Move su_temperature_read_fun() from drivers/snmp-ups.c to snmp-ups-helpers.c
- drivers/powerware-mib.c: update comments and implem for dummy eaton_sensor_temperature_unit_fun()/su_temperature_read_fun() from 42ity/nut
- drivers/eaton-pdu-marlin-mib.c: update comments and implem for dummy eaton_sensor_temperature_unit_fun()/su_temperature_read from 42ity/nut
- drivers/eaton-pdu-marlin-mib.c, drivers/powerware-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: drivers/snmp-ups.{c,h}: adjust su_temperature_read_fun() API to that used in NUT master branch
- drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-helpers.h: drivers/eaton-pdu-marlin-helpers.{c,h}: adjust eaton_sensor_ API to that used in NUT master branch
- drivers/eaton-pdu-marlin-helpers.c: fix whitespace
- drivers/eaton-pdu-marlin-mib.c: align comments around outlet.%i.name with FTY version
- drivers/eaton-pdu-marlin-mib.c: align with "snmp-ups: Simplify the mapping structure" changes for input.phases⇒input.count

2.908 2022-02-25 Jim Klimov <jim@jimklimov.com>

- drivers/eaton-pdu-marlin-mib.c: break long lines
- drivers/snmp-ups.h: avoid "#if" with possibly not-defined macro
- drivers/eaton-pdu-marlin-mib.c: relocate outlet.%i.load.off.delay etc like in FTY
- drivers/eaton-pdu-marlin-mib.c: break long lines like in FTY
- drivers/eaton-pdu-marlin-mib.c: break long lines

2.909 2022-02-24 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict Update for Adelsystem CBI

2.910 2022-02-24 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS: Update synchronous=auto for NUT v2.7.5
- drivers/dstate.c: send_to_all(): port do_synchronous auto⇒on fallback from send_to_one()
- drivers/dstate.c: send_to_one()/send_to_all(): make the success-report less verbose (level 6)
- drivers/dstate.c: send_to_one()/send_to_all(): make the reconnection WARNING more visible
- conf/ups.conf.sample, docs/man/ups.conf.txt, drivers/dstate.c, drivers/main.c: driver/dstate.c, main.c: extend do_synchronous to have an "auto" mode (now by default) so reconnections would be sync

- drivers/dstate.c: send_to_one(): log at level 0 if write failed (twice maybe) and so driver is disconnecting
- drivers/dstate.c: send_to_one(): log more details if throttling down, and if it helped
- drivers/snmp-ups.c: snmp_ups_walk(): log "walking device %d" at level 1 now, and without a dot-number (to avoid confusion)
- drivers/dstate.c: send_to_one(): try to sleep and resend failed posting; log the faults (and successes) at level 1

2.911 2022-02-23 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/dstate.c: send_to_all() send_to_one(): clarify "disconnecting" when logging that write failed
- drivers/snmp-ups.c: update comment for snmp_ups_walk() for "single" device
- drivers/snmp-ups.c: snmp_ups_walk(): for "unitary" (non-daisychain member) devices, walk a ".1" device only (should end up querying non-templated OIDs anyway) - avoid walking .0 partially and .1 again for same data
- drivers/snmp-ups.c: snmp_ups_walk(): log walking an "unitary" device if not a daisy-chain, for balance
- drivers/snmp-ups.c: snmp_ups_walk(): only log "Skipping daisychain device.0" when in daisy-chain context (skip anyway even for singular devices where we should also walk .1 anyway)
- drivers/snmp-ups.c: update heading comments for daisychain related variables
- drivers/snmp-ups.c: snmp_ups_walk(): only skip "device.0" if in daisy-chain mode
- drivers/snmp-ups.c: update comment for current_device_number

2.912 2022-02-22 Thanos Chatziathanassiou <tchatzi@arx.net>

- docs/man/socomec_jbus.txt, drivers/Makefile.am, drivers/socomec_jbus.c: Added socomec_jbus implementation

2.913 2022-02-22 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/snmp-ups.c: snmp_ups_walk(): fix taxonomy of "processing daisy-chain device" debug log

2.914 2022-02-22 Jim Klimov <jim@jimklimov.com>

- scripts/subdriver/gen-snmp-subdriver.sh: generate "standard MIB items" into new MIB mappings Kudos to @aquette for the catch in PR review

2.915 2022-02-21 Luke Dashjr <luke-jr+git@utopios.org>

- scripts/python/Makefile.am, scripts/python/README, scripts/python/app/NUT-Monitor.in, scripts/python/app/README, scripts/pyt 1.3.glade, scripts/python/app/gui-1.3.glade.h, scripts/python/app/nut-monitor.desktop, scripts/python/app/ui/aboutdialog1.ui, scripts/python/app/ui/dialog1.ui, scripts/python/app/ui/dialog2.ui, scripts/python/app/ui/window1.ui: NUT-Monitor: Port to Python3\+PyQt5
- scripts/python/Makefile.am, scripts/python/README, scripts/python/app/NUT-Monitor.in, scripts/python/app/README, scripts/pyt 1.3.glade, scripts/python/app/gui-1.3.glade.h, scripts/python/app/nut-monitor.desktop, scripts/python/app/ui/aboutdialog1.ui, scripts/python/app/ui/dialog1.ui, scripts/python/app/ui/dialog2.ui, scripts/python/app/ui/window1.ui: NUT-Monitor: Port to Python3\+PyQt5

2.916 2022-02-19 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/snmp-ups.c, server/upsd.c: drivers/snmp-ups.c upsdrv_updateinfo(); server/upsd.c driver_free() mainloop(): trace connection faults and reconnections better
- drivers/dstate.c: send_to_one(): consistently use "buflen"
- drivers/dstate.c: send_to_all/send_to_one: extend failed-send tracing
- drivers/snmp-ups.c: su_setOID(): uncomment the fallback for "device.x.contact" not found as a "contact", and add another to strip "device.1." ⇒ "device." to allow setting non-templated values to daisy-chain master
- drivers/snmp-ups.c, server/upsd.c: drivers/snmp-ups.c upsdrv_updateinfo(); server/upsd.c driver_free() mainloop(): trace connection faults and reconnections better
- drivers/dstate.c: send_to_one(): consistently use "buflen"
- drivers/dstate.c: send_to_all/send_to_one: extend failed-send tracing

2.917 2022-02-19 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: wrap long lines, add comments
- drivers/snmp-ups.c: upsdrv_initups(): check that there is no daisychain master entry before defining IETF-MIB fallback defaults for contact/location/description
- drivers/snmp-ups.c: upsdrv_initups(): comment and log that IETF-MIB fallback defaults for contact/location/description are only read once (not updated while driver runs)
- drivers/snmp-ups.c: su_ups_get(): fake current_device_number=1 to su_setinfo() when walking a daisy-chain with non-templated OID
- drivers/snmp-ups.c: get_and_process_data(), su_ups_get(): add tracing logs to make sense of daisy-chain OID adaptations
- drivers/snmp-ups.c: wrap long lines, add comments
- drivers/snmp-ups.c: su_setinfo(): trace diags for different code-paths about daisy-chained OID decisions
- drivers/snmp-ups.c: su_setinfo(): this is not the place to check for ".%i" after all

2.918 2022-02-18 Viktor Kuzmin <kvaster@gmail.com>

- configure.ac: Fix individual drivers configuration

2.919 2022-02-18 Jim Klimov <jim@jimklimov.com>

- tools/nut-dumpdiff.sh: revise to also strip frequency measurements
- tools/nut-dumpdiff.sh: revise to also strip (load|temperature\|humidity) measurements
- docs/documentation.txt: document tools/nut-dumpdiff.sh helper
- tools/nut-dumpdiff.sh: revise to strip just numeric measurements of (*.power|voltage\|current)
- tools/nut-dumpdiff.sh: extend to not strip ALL numeric values but ones that are likely measurements
- tools/Makefile.am, tools/nut-dumpdiff.sh: Add tools/nut-dumpdiff.sh helper
- drivers/snmp-ups.c: su_setOID(): handle e.g. "device.contact" as either "device.0.contact" for "all devices" if OID is templated or NULL, or "device.1.contact" for "master device" in other cases

- drivers/snmp-ups.c: su_setOID(): import (commented away - not deemed necessary so far) fallback for e.g. "device.x.contact" is not found as a "contact"
- drivers/snmp-ups.c: su_setinfo(): fix comment
- drivers/snmp-ups.c: fix "device.varname" for daisychain *master* units * su_setinfo(): should not expose master-specific data (like device.contact coming from IETF un-templated data points not aware about daisy chains) as if it were the data specific to every device in the chain; note that for defaulted data (like device.type="pdu" hardcoded with NULL OID) we still expose it across the board * su_setOID(): "upsrw ... device.contact" should change the daisychain master device (for IETF un-templated data; but in this commit - always)

2.920 2022-02-17 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: su_setOID(): fix mis-interpretation of "device*" as always a daisy-chain
- drivers/snmp-ups.c: use "hard-coded" IETF MIB for read-only access to sysDescr also (only if mib2nut does not yet define a better value)
- drivers/snmp-ups.c: use "hard-coded" IETF MIB for read-only access to sysContact and sysLocation only if mib2nut does not yet define a better value
- drivers/emerson-avocent-pdu-mib.c: whitespace fix
- drivers/eaton-pdu-marlin-mib.c: whitespace fix
- drivers/apc-mib.c: drivers/apc-mib: whitespace fix
- drivers/xppc-mib.c: whitespace fix
- drivers/apc-ats-mib.c, drivers/apc-mib.c, drivers/baytech-mib.c, drivers/bestpower-mib.c, drivers/compaq-mib.c, drivers/cyberpower-mib.c, drivers/delta_ups-mib.c, drivers/eaton-ats16-nm2-mib.c, drivers/eaton-ats16-nmc-mib.c, drivers/eaton-pdu-genesis2-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/eaton-pdu-pulizzi-mib.c, drivers/eaton-pdu-revelation-mib.c, drivers/emerson-avocent-pdu-mib.c, drivers/hpe-pdu-mib.c, drivers/huawei-mib.c, drivers/ietf-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/powerv mib.c, drivers/raritan-pdu-mib.c, drivers/raritan-px2-mib.c, drivers/xppc-mib.c: drivers/*-mib.c: define standard-MIB entries for device.description, contact, location (RW STRING)
- clients/upscmd.c, clients/upsrw.c: clients/upsrw.c, upscmd.c: fix sanity-check of tracking_id length (forgot the nul-byte)
- scripts/systemd/nut-driver@.service.in: make sure drivers always try to start and connect - how ever many attempts that takes
- scripts/systemd/nut-driver@.service.in: comment about "Before=nut-driver.target" constraint
- scripts/systemd/nut-driver@.service.in: make sure drivers always try to start and connect

2.921 2022-02-17 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adelsystem_cbi.c: handle covered-switch-default and switch-enum warnings
- drivers/adelsystem_cbi.h: clean up, fix typos
- drivers/adelsystem_cbi.c: clean up, fix typos
- docs/man/Makefile.am, docs/man/adelsystem_cbi.txt: man page added

2.922 2022-02-16 Jim Klimov <jimklimov+nut@gmail.com>

- clients/upsmon.c: restructure config reload for debug_min to be more similar to that in upsd.c
- clients/upsmon.c: whitespace fix
- scripts/systemd/nut-server.service.in: reload upsd without PID file [for #1299]
- server/conf.c: allow upsd to reload config and apply its debug_min setting
- clients/upsmon.c, docs/man/upsmon.txt: clients/upsmon.c: add "-P pid" arg handling, and report result of sendsignal(), like in upsd [for #1299, #123]
- docs/man/upsd.txt, scripts/systemd/nut-server.service.in, server/upsd.c: upsd.c: add -FF option to stay foregrounded AND write the PID file, use it in systemd/nut-server.service [for #1299]
- docs/man/upsd.txt, server/upsd.c: server/upsd.c: add "-P PID" arg for commands [for #1299]
- common/common.c, include/common.h: include/common.h, common.c: refactor sendsignalfn() into parsepid() and sendsignalpid() reusable methods
- server/upsd.c: warn about not saving a pid file
- server/upsd.c: handle extended return values from sendsignalfn() to tell more about the error
- common/common.c: sendsignalfn(): if we use sig==0 to probe that a process runs, no need to send that twice
- common/common.c, include/common.h: include/common.h, common.c: extend sendsignalfn() return value for more error types

2.923 2022-02-16 Jim Klimov <jim@jimklimov.com>

- drivers/libhid.c: string_to_path(): report hid_lookup_usage() miss
- drivers/libhid.c: fix misfire of fightwarn commit 58e5b49 (string_to_path(): range-check...) Closes: #1286
- conf/upsd.conf.sample, conf/upsmon.conf.sample.in, docs/man/upsd.conf.txt, docs/man/upsmon.conf.txt: upsd and upsmon configuration sample files and man pages: add note about run-time config reload with DEBUG_MIN setting in sight
- clients/upsmon.c: allow upsmon to reload config and apply its debug_min setting
- common/common.c: writepid(): debug-trace creation of a PID file

2.924 2022-02-15 Jim Klimov <jim@jimklimov.com>

- drivers/main.c: fix user:group separator in debug message
- configure.ac: report default/detected RUN_AS_USER/RUN_AS_GROUP values in help; check if "nobody" group is not resolvable when "nogroup" us to use it as default RUN_AS_GROUP instead
- drivers/main.c: report whether we succeeded or failed chown/chmod for sockname
- docs/man/nutupsdrv.txt, docs/man/ups.conf.txt, drivers/main.c: drivers/main.c: support setting group name for socket file (ups.conf, CLI -g arg) Closes: #1296
- drivers/dstate.c, drivers/dstate.h, drivers/main.c: drivers/main.c \+ dstate.{c,h}: refactor dstate_init() to return a copy of the "sockname" path used
- drivers/main.c: re-word debug message for "-u name" overriding built-in or configured values
- drivers/main.c: trace do_global_args() and main_arg() var/val stream
- docs/hid-subdrivers.txt: describe tech for "Fixing report descriptors"
- docs/hid-subdrivers.txt, docs/nut.dict, drivers/hidtypes.h: docs/hid-subdrivers.txt: document where USAGE_POW_ and USAGE_BAT_ macros come from
- drivers/apc-hid.c: apc_fix_report_desc(): normalize indentations

2.925 2022-02-14 Nick Briggs <nicholas.h.briggs@gmail.com>

- drivers/apc-hid.c: Update APC HID driver version
- drivers/apc-hid.c: Only indicate report descriptor fixed if it was actually changed.

2.926 2022-02-14 Jim Klimov <jim@jimklimov.com>

- docs/man/ups.conf.txt, drivers/main.c: drivers/main.c: allow to specify a user for each driver via ups.conf Closes: #1288
- drivers/upsdrvctl.c: suggest "-d" when warning about passing debugging through to actual drivers
- drivers/upsdrvctl.c: only warn about passing debugging through to actual drivers if (nut_debug_level_passthrough == 0)
- docs/man/upsdrvctl.txt, drivers/upsdrvctl.c: drivers/upsdrvctl: add "-d" option to pass debug level to drivers Closes: #1036 (Note: that issue discusses other possible improvements around this subject, which are synergetic with this one)

2.927 2022-02-13 Nick Briggs <nicholas.h.briggs@gmail.com>

- drivers/apc-hid.c, drivers/cps-hid.c, drivers/hidparser.c, drivers/hidparser.h, drivers/hidtypes.h: Fix incorrect limits for input and config voltages in APC report descriptor The Back-UPS XS 1400U has been observed to report input/config voltage limits that are appropriate for the North American 120V region even though the unit is operating in the European or other 220\+V region. This change diagnoses the the problem by checking if the logical maximum values for UPS.Input.Voltage and UPS.Input.ConfigVoltage are consistent with the UPS.Input.HighVoltageTransfer and if not, increases them. A similar problem was reported for CPS units in the EU region. - introduces #defines for all standard usages in power system and battery device pages. - moves cps-hid.c FindReport() to hidparser.c as FindObject_with_ID_Node(). - updates cps-hid.c to account for new defines/function name - adds apc_fix_report_desc() to implement change for APC UPS units

2.928 2022-02-13 Luke Dashjr <luke-jr+git@utopios.org>

- scripts/python/app/NUT-Monitor.in: NUT-Monitor: Run py2to3-3.10
- scripts/python/app/NUT-Monitor.in: NUT-Monitor: Run py2to3-3.10

2.929 2022-02-11 Jim Klimov <jim@jimklimov.com>

- NEWS: added usbhid-ups "ever-hid" subdriver for NUT v2.7.5
- docs/man/upsd.conf.txt: document DISABLE_WEAK_SSL
- NEWS, docs/nut.dict: NEWS: announce "debug_min" options for daemons in NUT v2.7.5
- NEWS: announce fore-/back-grounding options for daemons in NUT v2.7.5
- docs/man/upsd.conf.txt: document optional "DEBUG_MIN" setting
- conf/upsd.conf.sample: document optional "DEBUG_MIN" setting
- conf/upsmon.conf.sample.in: document optional "DEBUG_MIN" setting
- conf/ups.conf.sample: document optional "debug_min" setting
- docs/man/upsmon.conf.txt: document optional "DEBUG_MIN" setting
- docs/man/ups.conf.txt: document optional "debug_min" setting
- server/conf.c, server/conf.h, server/upsd.c: server/upsd.c, conf.c: support "debug_min" from upsd.conf
- clients/upsmon.c: support "debug_min" from upsmon.conf

- drivers/main.c: comment typo fixes
- docs/man/upslog.txt: fix typo "upsmon" ⇒ "upslog"
- clients/upslog.c: align -F/-B options with drivers/main.c
- scripts/systemd/nut-monitor.service.in: with daemon not backgrounding, "Type=forking" no longer applies
- docs/man/upsd.txt: document -F/-B for fore/back-ground enforcement, and that -D only defaults to foregrounding now (can be overridden)
- server/upsd.c: align -F/-B options with drivers/main.c
- docs/man/upsmon.txt: document -F/-B for fore/back-ground enforcement, and that -D only defaults to foregrounding now (can be overridden)
- clients/upsmon.c: align -F/-B options with drivers/main.c
- docs/man/nutupsdrv.txt: document -F/-B for fore/back-ground enforcement, and that -D/-d only default to foregrounding now (can be overridden)
- drivers/main.c: update comments

2.930 2022-02-11 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adelsystem_cbi.c, drivers/adelsystem_cbi.h: coding style changes
- drivers/adelsystem_cbi.c: fix parameter hiding global variable

2.931 2022-02-10 Nick Geoghegan <nick@geoghegan.me>

- drivers/riello_usb.c: Fixes formatting in riello_usb
- drivers/riello_ser.c: Updates riello_ser to version 0.07

2.932 2022-02-10 Jim Klimov <jim@jimklimov.com>

- .github/pull_request_template.md: remind to update recipes for new man pages
- configure.ac: avoid noise about pkg-config not finding (lib)systemd.pc on systems where it is not installed
- configure.ac: default to detection of systemdsystemunitdir (and systemdshutdowndir) - "auto" is not a final option
- configure.ac, docs/configure.txt: configure.ac: default to detection of systemdsystemunitdir (and systemdshutdowndir), non-fatal if not found
- configure.ac: fall back from pkg-config queries for "systemd" to try also "libsystemd" - fix calling "test"
- configure.ac: fall back from pkg-config queries for "systemd" to try also "libsystemd"
- docs/man/Makefile.am: build and install nutdrv_siemens_sitop man pages

2.933 2022-02-09 Nick Geoghegan <nick@geoghegan.me>

- drivers/riello_usb.c: Fixes 530

2.934 2022-02-09 Jim Klimov <jim@jimklimov.com>

- drivers/nutdrv_qx_masterguard.c: rename non-standard dstate variables to "experimental.*" namespace Closes: NUT issue #1045
- drivers/nutdrv_qx_masterguard.c: fix "ups.delay.return" ⇒ "ups.delay.start"
- drivers/nutdrv_qx_masterguard.c: whitespace fixes (some long lines)
- docs/packager-guide.txt: update for nut-linux-i2c and nut-macosx-ups platform-dependent package groups
- docs/packager-guide.txt: fix title for pkg-nut-modbus
- drivers/ever-hid.c: tag non-standard NUT variable/command names as "experimental.*" to help identify lacking mappings and rename some into standard data points
- drivers/ever-hid.c, drivers/ever-hid.h: drivers/ever-hid.{c,h}: update © heading
- drivers/ever-hid.c: print unsigned int as %u
- drivers/ever-hid.c: mark NUT_UNUSED_VARIABLE(double value) where appropriate
- drivers/ever-hid.c: use complete struct initializers for info_lkp_t tables; use sentinels; mark static
- drivers/ever-hid.c: ever_alarms_fun(), ever_workmode_fun(): define "workmode" on top of function
- drivers/ever-hid.c: fix switch/case whitespaces
- drivers/ever-hid.c: fix trailing whitespaces
- drivers/ever-hid.c: wrap some long lines for readability
- drivers/ever-hid.c: adjust to upstream changes: config.h goes first, PID/VID are unsigned, got a fix_report_desc() default
- drivers/everups.c: whitespace fixes; clarify this is a serial driver (as opposed to ever-hid.c for USB devices)

2.935 2022-02-08 Jim Klimov <jim@jimklimov.com>

- configure.ac: error out for unhandled --with-drivers=xxx names
- configure.ac: improve handling of platform-dependent (linux-i2c, macosx) drivers - do not default to require them everywhere
- configure.ac: move --with-drivers=... handling to before --with-all, and consult drivers/Makefile.am for list names to require certain dependencies
- drivers/Makefile.am: parameterize POWERMAN_DRIVERLIST and IPMI_DRIVERLIST like others
- configure.ac: move "--with-drivers=name[,name...]" handling to before we check for third-party dependencies
- clients/upssched.c: sendcmd(): rectify enclen/buflen sanity checks and usage
- clients/upssched.c: whitespace and comment fixes

2.936 2022-02-08 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adelsystem_cbi.h: check ifndef READALL_REGS
- drivers/adelsystem_cbi.c: minor fix in upsdrv_updateinfo
- drivers/adelsystem_cbi.c, drivers/adelsystem_cbi.h: fix warning for initializing structure with flexible array member

2.937 2022-02-07 Jim Klimov <jim@jimklimov.com>

- scripts/subdriver/gen-usbhid-subdriver.sh: gen-usbhid-subdriver.sh: suggest "fix_report_desc" in subdriver_t (follow-up to PR #1245)

2.938 2022-02-07 Dimitris Economou <dimitris.s.economou@gmail.com>

- clients/upssched.c: fix code alignemnt, casting sizeof with ssize_t

2.939 2022-02-06 Jim Klimov <jim@jimklimov.com>

- docs/packager-guide.txt: mention ipmi and modbus drivers as separate packaging goals

2.940 2022-02-06 Dimitris Economou <dimitris.s.economou@gmail.com>

- clients/upssched.c: Re-apply on Windows branch: fix enc size write on pipeifd, fix parent select on child's pipefd, and later commits in the series Committed-By: Jim Klimov <jimklimov\+nut@gmail.com>
- clients/upssched.c: check zero bytes read from O_NDELAY socket
- clients/upssched.c: fix enc size write on pipeifd, fix parent select on child's pipefd
- drivers/Makefile.am: adelsystem_cbi header filename fix

2.941 2022-02-05 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict, docs/support.txt: docs/support.txt: detail abot GitHub issues and PRs, and IRC channel
- drivers/al175.c, drivers/apc-ats-mib.c, drivers/apc-hid.c, drivers/apc-mib.c, drivers/apc-pdu-mib.c, drivers/apcsmart-old.c, drivers/apcsmart.h, drivers/apcupsd-ups.c, drivers/arduino-hid.c, drivers/asem.c, drivers/baytech-mib.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/belkin-hid.c, drivers/belkin.c, drivers/belkinunv.c, drivers/bestfcom.c, drivers/bestfortress.c, drivers/bestpower-mib.c, drivers/bestuferrups.c, drivers/bestups.c, drivers/blazer_ser.c, drivers/blazer_usb.c, drivers/clone-outlet.c, drivers/clone.c, drivers/compaq-mib.c, drivers/cps-hid.c, drivers/cyberpower-mib.c, drivers/delta_ups-hid.c, drivers/delta_ups-mib.c, drivers/dummy-ups.c, drivers/eaton-ats16-nm2-mib.c, drivers/eaton-ats16-nmc-mib.c, drivers/eaton-ats30-mib.c, drivers/eaton-pdu-genesis2-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/eaton-pdu-pulizzi-mib.c, drivers/eaton-pdu-revelation-mib.c, drivers/emerson-avocent-pdu-mib.c, drivers/etapro.c, drivers/everups.c, drivers/explore-hid.c, drivers/gamatronic.c, drivers/generic_modbus.c, drivers/genericups.c, drivers/hpe-pdu-mib.c, drivers/huawei-mib.c, drivers/huawei-ups2000.c, drivers/idowell-hid.c, drivers/ietf-mib.c, drivers/isbmex.c, drivers/ivtscd.c, drivers/legrand-hid.c, drivers/libshut.c, drivers/libusb0.c, drivers/libusb1.c, drivers/liebert-esp2.c, drivers/liebert-hid.c, drivers/liebert.c, drivers/macosx-ups.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-hid.c, drivers/mge-mib.c, drivers/mge-utalk.c, drivers/microdowell.c, drivers/microsol-apc.c, drivers/netvisio mib.c, drivers/netxml-ups.c, drivers/nut-ipmipsu.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/nutdrv_siemens_sitop.c, drivers/oneac.c, drivers/openups-hid.c, drivers/optiups.c, drivers/phoenixcontact_modbus.c, drivers/pijuice.c, drivers/powercom-hid.c, drivers/powercom.c, drivers/powerman-pdu.c, drivers/powerpanel.c, drivers/powervar-hid.c, drivers/powerware-mib.c, drivers/raritan-pdu-mib.c, drivers/raritan-px2-mib.c, drivers/rhino.c, drivers/richcomm_usb.c, drivers/riello_ser.c, drivers/riello_usb.c, drivers/safenet.c, drivers/salicru-hid.c, drivers/skel.c, drivers/snmp-ups.c, drivers/solis.c, drivers/tripplite-hid.c, drivers/tripplite.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/usbhid-ups.c, drivers/victronups.c, drivers/xppc-mib.c: drivers: bump versions for all drivers, they could have been refactored during fightwarn (so might add regressions) without regard to versioning
- UPGRADING: NEWS: plea to package maintainers to share their customizations into common uptream
- docs/documentation.txt, docs/nut.dict: documentation.txt: add a blog by James Ridgway
- docs/documentation.txt: documentation.txt: update with a link to video by Techno Tim
- docs/documentation.txt: developers.txt: "trac" is AWOL, update the link to github wiki copy
- docs/developers.txt: developers.txt: "alioth" is AWOL, update the text
- docs/download.txt: download.txt: "trac" and "alioth" are AWOL, update the links

2.942 2022-02-05 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adelsystem_cbi.c: apply Jim's modbus changes on PR #1239

2.943 2022-02-02 Jim Klimov <jim@jimklimov.com>

- scripts/installer/common/init, scripts/installer/common/ipp-event.sh, scripts/installer/common/ipp-notifier.sh, scripts/installer/common/os-shutdown, scripts/installer/common/ipp-shutdown-daemon.sh, scripts/installer/common/ipp-status, scripts/installer/common/shutdown, scripts/installer/common/string.sh: scripts/installer/common/*: update from latest revision snapshot

2.944 2022-01-27 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: Revert "drivers/snmp-ups.c: replace strcmp("short string") with strncmp() (clang-3.4 warns about array out of bounds)" This reverts commit d2f7193af42e987f7948e072a963dc7bb1e25dc1. Currently the configure script should properly avoid the built-in strcmp() versions which upset current build compiler. Using the range-limited strncmp() has a downside of matching start-of-string.
- drivers/snmp-ups.c: Revert "drivers/snmp-ups.c: fix strncmp() limits for "v1" and "v3" checks (copy-pasting typo)" This reverts commit d0d02d3a70c6544c8ea7868dd63738595f2ae657. Currently the configure script should properly avoid the built-in strcmp() versions which upset current build compiler. Using the range-limited strncmp() has a downside of matching start-of-string.
- clients/upsclient.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, clients/upssched.c, clients/upsset.c, common/state.c, common/upsconf.c, docs/developers.txt, docs/nut.dict, drivers/apcsmart-old.c, drivers/apcsmart.c, drivers/apcupsd-ups.c, drivers/belkin.c, drivers/belkinunv.c, drivers/bestups.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/gamatronic.c, drivers/huawei-ups2000.c, drivers/main.c, drivers/masterguard.c, drivers/mge-utalk.c, drivers/mge-xml.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_voltronic-qs-hex.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_voltronic.c, drivers/oneac.c, drivers/powercom.c, drivers/powerman-pdu.c, drivers/powerp-txt.c, drivers/snmp-ups.c, drivers/tripplite_usb.c, drivers/upscode2.c, drivers/victronups.c, server/conf.c, server/netget.c, server/netlist.c, server/netset.c, server/user.c, tests/cpputest.cpp, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_snmp.c: Revert "Replace strcmp() and strcasecmp() use-cases for short fixed string args by strncmp() and strncasecmp() respectively" This reverts commit a0d5ad57956ebcb5878744acb7657e1356ba0ea8. Currently the configure script should properly avoid the built-in strcmp() versions which upset current build compiler. Using the range-limited strncmp() has a downside of matching start-of-string.
- drivers/snmp-ups.c, tools/nut-scanner/scan_snmp.c: Revert "tools/nut-scanner/scan_snmp.c, drivers/snmp-ups.c: strcmp() shorter "SHA" and "AES" and check this is all of the string length" This reverts commit 57182d51b2954e6b7bb5199f658f38a89ce93648. Currently the configure script should properly avoid the built-in strcmp() versions which upset current build compiler. Using the range-limited strncmp() has a downside of matching start-of-string.

2.945 2022-01-23 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: fix CI_FAILFAST to abort after failed configure scripts
- NEWS, UPGRADING: snmp-ups.h flags (bit-mask macros) changed for NUT v2.7.5
- drivers/snmp-ups.h: mib2nut mappings with "zero" flag value are not illegal
- drivers/snmp-ups.h: redefine bit-flags macros so they do not overlap (and update some helper-masking macros) follows up on issue from PR #1177 and aligns with ultimately DMF (42ity fork) tested changes to help merge that later with less effort

2.946 2022-01-22 Jim Klimov <jim@jimklimov.com>

- NEWS: Revert "NEWS: drop chapters for "PLANNED NEWS" for releases after v2.7.5" This reverts commit 8c0079973b995c598427 - those chapters are relevant in branch release-notes-for-2.7.6
- NEWS: drop chapters for "PLANNED NEWS" for releases after v2.7.5
- UPGRADING: highlight libusb-1.0 in NUT v2.7.5

2.947 2022-01-21 Jim Klimov <jim@jimklimov.com>

- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: "libssl-dev" name is more popular nowadays than "openssl-dev" (Debian and family)
- docs/nut.dict: update for Armac subdriver NEWS
- data/driver.list.in: add PiJuice HAT (big) and pHAT (Zero)

2.948 2022-01-20 Jim Klimov <jimklimov@gmail.com>

- drivers/nutdrv_qx.c: armac_command(): use nut_usb_strerror(ret) Match updated libusb-1.0/0.1 API in NUT master
- drivers/nutdrv_qx.c: Update nutdrv_qx.c Fix nut_usb_strerror(ret) for new libusb-1.0/0.1 support in master branch

2.949 2022-01-20 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/scan_snmp.c, drivers/snmp-ups.c: strcmp() shorter "SHA" and "AES" and check this is all of the string length Alternative: move matching to end of stack
- NEWS: prepare for nutdrv-qx armac merge in 2.7.5 timeline
- NEWS: added usbhid-ups fix_report_desc() for NUT v2.7.5
- NEWS: added powercom "nobt" option for NUT v2.7.5
- drivers/nutdrv_qx.c: armac_command(): accomodate "usb_ctrl_charbuf" and formatting changes for libusb-1.0 support
- drivers/nutdrv_qx.c: armac_command(): mark as static method
- drivers/nutdrv_qx_ablerex.c: ablerex_process_status_bits(): mark as static method
- drivers/nutdrv_qx.c: ablerex_command(): accomodate "usb_ctrl_charbuf" and formatting changes for libusb-1.0 support
- ci_build.sh: make distcheck (pun intended) less noisy
- ci_build.sh: comment a suggestion how to use BUILD_TYPE=fightwarn typically
- ci_build.sh: make distcheck (pun intended) less noisy
- ci_build.sh: comment a suggestion how to use BUILD_TYPE=fightwarn typically

2.950 2022-01-19 Jim Klimov <jimklimov@gmail.com>

- drivers/legrand-hid.c: Update legrand-hid.c Initialize "fix_report_desc", this file appeared from another PR merged before #1245

2.951 2022-01-19 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: provision check_gitignore() calls for DMF branch build products
- ci_build.sh: check_gitignore(): wrap long lines
- ci_build.sh: check_gitignore(): add a FILE_GLOB support
- ci_build.sh: optional_dist_clean_check(): copypasta error, GIT_ARGS not needed in this one
- ci_build.sh: fix "MAKE distclean" operations back to not-quiet, they look weird as a half-muted wall of text
- ci_build.sh: fix use of git status $GIT_ARGS consistently
- drivers/snmp-ups.c: match_sysoid(): test for NULL mib2nut[i]→snmp_info (and skip if so)
- drivers/snmp-ups.c: load_mib2nut(): imply that skipped value is not a "valid" name in the mapping table (name may be known, but with no snmp_info attached)

2.952 2022-01-18 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/scan_usb.c: avoid SIGSEGV in libusb-1.0 when running as non-root and device fails to open (e.g. perms error)

2.953 2022-01-18 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: mib2nut mappings with "zero" flag value are not illegal Do not yell about them like it's a bug, after all.
- drivers/snmp-ups.c: handle not-loaded snmp_info without segfaulting
- drivers/snmp-ups.c: load_mib2nut(): better tracing of mib_name comparisons
- drivers/snmp-ups.c: load_mib2nut(): test for NULL mib2nut[i]→snmp_info (and skip if so) before accounting mibSeen=TRUE and trying to match_model_OID()
- drivers/usbhid-ups.h: rename pDesc arg to match wording in usbhid-ups.c
- drivers/hidparser.c, drivers/hidparser.h: drivers/hidparser.{c,h}: rename pDesc arg/var to avoid shadowing a global variable Pre-emptively: `extern pDesc` is defined in libhid.h which does not seem to be used in/along-with hidparser.{c,h} currently - but this collision may happen later (especially with code-copying around).
- drivers/cps-hid.c: clean up trailing whitespaces
- drivers/cps-hid.c: FindReport() cps_fix_report_desc(): rename pDesc arg to avoid shadowing a global variable
- drivers/cps-hid.c: mark non-exported FindReport() as static
- m4/nut_compiler_family.m4: enhance NUT_CHECK_COMPILE_FLAG() to run the whole toolchain for "build and run" when checking CLI option support
- ci_build.sh: build_to_only_catch_errors_target(): CI_PARMAKE_VERBOSITY=silent should not hide warnings
- ci_build.sh: do not silent-make initial clean-up (it is chatty anyway, so let us see the dirs processed)
- ci_build.sh: comment verbosity (non-)tweaks for builds without a BUILD_TYPE
- ci_build.sh: report around initial clean-up for clearer log reading
- ci_build.sh: refactor with check_gitignore()
- ci_build.sh: refactor ccache_stats()
- ci_build.sh: refactor make-verbosity settings and adjust some for default builds to store less log

2.954 2022-01-18 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adele_cbi.c, drivers/adele_cbi.h: delete duplicates after rebase
- drivers/{adele_cbi.c ⇒ adelsystem_cbi.c}, drivers/{adele_cbi.h ⇒ adelsystem_cbi.h}: rename after rebase
- drivers/{adelsystem_cbi.c ⇒ adele_cbi.c}, drivers/{adelsystem_cbi.h ⇒ adele_cbi.h}: rename for rebase
- drivers/{adelsystem_cbi.c ⇒ adele_cbi.c}, drivers/{adelsystem_cbi.h ⇒ adele_cbi.h}: rename for rebase

2.955 2022-01-17 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nut-scanner.c: report in usage() if "library not detected" for a scan option

2.956 2022-01-17 Jim Klimov <jim@jimklimov.com>

- drivers/generic_modbus.c: address -Wmissing-field-initializers complaints for timeval with timeouts (memset to 0 instead)
- drivers/generic_modbus.c: address -Wstrict-prototypes complaints
- Jenkinsfile-dynamatrix: raise the bar for code quality non-regression, to fail on any (new) warnings in master branch and PRs to it
- Jenkinsfile-dynamatrix: shut back the cppcheck-by-default
- Jenkinsfile-dynamatrix: do not allow to disable delayedIssueAnalysis on "stable branches"
- Jenkinsfile-dynamatrix: enable cppcheck slowBuild stages generally, not just for "fightwarn" branches

2.957 2022-01-16 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: adjust test structure for both built-in ntohl/htonl and string built-ins (using explicit -Werror -Wno-... checks)
- configure.ac: adjust test structure for built-in ntohl/htonl to be similar to that for string built-ins (using explicit -Werror)
- ci_build.sh: do not lose original LDFLAGS

2.958 2022-01-15 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: tweak LIBLTDL_CFLAGS same as LIBNETSNMP_CFLAGS for -Wno-shadow if needed for string methods or htonl() etc In some builds of the NUT CI farm dynamatrix (possibly ones without SNMP support), the nutscan-ip.c complains about "declaration shadows a local variable" — investigation of which leads into the macros expanded for common method names on those systems and/or compiler toolkit versions. This PR hopes to avoid that situation more extensively.

2.959 2022-01-15 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: add support for CANBUILD_NUTCONF toggle (NUT_BUILD_CAPS=nutconf... for CI farm)
- common/Makefile.am, configure.ac, tests/Makefile.am, tools/nutconf/Makefile.am: tools/nutconf/Makefile.am, tests/Makefile.am, configure.ac: limit the impact of nutconf codebase quality by default
- include/nutconf.h, tools/nutconf/nutconf.cpp: nutconf codebase: fix C\+\+17 warnings - equality operators should return *this
- common/nutipc.cpp, common/nutstream.cpp, include/nutconf.h, include/nutipc.hpp, include/nutstream.hpp, tools/nutconf/nutconf.cpp: nutconf codebase: fix C\+\+17 warnings - dynamic throw() declaration

2.960 2022-01-14 Jim Klimov <jimklimov+nut@gmail.com>

- tests/cpputest.cpp, tests/example.cpp, tests/nutclienttest.cpp: tests/*.cpp: mark overridden class methods as such
- clients/nutclient.h, clients/nutclientmem.h: clients/nutclient.h \+ nutclientmem.h: mark overridden class methods as such

2.961 2022-01-14 Jim Klimov <jim@jimklimov.com>

- scripts/installer/aix/aix_init, ...are_shutdown.txt ⇒ README_ipp-os-shutdown.txt}, ...usterware_shutdown ⇒ ipp-host-shutdown.sample}, scripts/installer/common/ipp-wrapper, scripts/installer/common_EN/install.res, scripts/installer/install.sh, scripts/installer/make_package.sh, .../{solari ⇒ solcmn}/ipp-os-shutdown.conf.sample, scripts/installer/solcmn/solaris_init, .../installer/solint/ipp-os-shutdown.conf.sample, scripts/installer/uninstall-ipp, scripts/installer/version.sh: Update installer scripts from tentative Eaton IPSS Unix 1.40-5 release (2018)

- scripts/installer/aix/ipp-os-shutdown.conf.sample, scripts/installer/common/AIX_Clusterware_shutdown, . . . /common/README_AI scripts/installer/common/aix_init, scripts/installer/common/init, scripts/installer/common/ipp-event.sh, scripts/installer/common/ipp-notifier.sh, scripts/installer/common/ipp-os-shutdown, scripts/installer/common/ipp-shutdown-daemon.sh, scripts/installer/common/ip status, scripts/installer/common/ipp.conf, scripts/installer/common/shutdown, scripts/installer/common/solaris_init, scripts/installer/common/string.sh, scripts/installer/common_EN/install.res, scripts/installer/hpux/ipp-os-shutdown.conf.sample, scripts/installer/install.sh, scripts/installer/make_package.sh, . . . /installer/solari/ipp-os-shutdown.conf.sample, . . . /installer/solint/ipp-os-shutdown.conf.sample, scripts/installer/uninstall-ipp, scripts/installer/version.sh: scripts/installer: snapshot from AIX_Clusterware delivery (2015-11-18)
- scripts/installer/install.sh: do not dictate a MANPATH (led to some install errors)
- scripts/installer/install.sh: add logging to trace installer errors; use more library paths
- scripts/installer/README.txt, scripts/installer/common/init, scripts/installer/common/ipp-event.sh, scripts/installer/common/ipp-notifier.sh, scripts/installer/common/ipp-shutdown-daemon.sh, scripts/installer/common/ipp-status, scripts/installer/common/ipp.conf scripts/installer/common/shutdown, scripts/installer/common/string.sh, scripts/installer/common_EN/install.res, scripts/installer/common_EN/license.txt, scripts/installer/install.sh, scripts/installer/make_package.sh, scripts/installer/nut, scripts/installer/nutconf-dummy, scripts/installer/uninstall-ipp, scripts/installer/uninstall-lsnw.sh, scripts/installer/version.sh: Add installer scripts from Eaton IPSS Unix 1.40-4 release (2013-10-25)
- docs/man/nutconf.txt, docs/nut.dict: Spellcheck manpage for nutconf tool
- tools/nutconf/nutconf.cpp: adjust to changed API for nutscan_scan_xml_http() ⇒ nutscan_scan_xml_http_range()
- tools/nutconf/.gitignore: Add tools/nutconf/.gitignore
- tools/nutconf/nutconf.cpp: add © header
- tools/nutconf/Makefile.am: modernize
- common/Makefile.am, common/nutwriter.cpp, tests/Makefile.am, tools/nutconf/Makefile.am: Import NUT source changes for nutconf tool from 42ITy (initial set)
- drivers/snmp-ups.h: treat DISABLE_MIB_LOADING more safely

2.962 2022-01-13 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: adjust test for built-in string functions (problematic on clang-3.4) to see any warnings and specifically for unreachable code there
- ci_build.sh: relay more build-influencing envvars in the (Jenkins-logged) printout
- drivers/nut-libfreeipmi.c: fix the range-check and message/comment it better
- drivers/asem.c: macro ACCESS_DEVICE() ends with a brace; we HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_EXTRA_SE to keep the useless trailing ";" for readability
- m4/ax_c_pragmas.m4: add HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_EXTRA_SEMI_STMT(_BESIDEFUNC)
- drivers/asem.c: declare upsdrv_shutdown() as noreturn
- drivers/nutdrv_qx.c: avoid including usb-common.h twice
- m4/ax_c_pragmas.m4: ask CLANG to reject unknown pragmas when checking for them
- common/common.c: check for HAVE_PRAGMA_CLANG_DIAGNOSTIC_IGNORED_UNREACHABLE_CODE_RETURN support before use
- m4/ax_c_pragmas.m4: test specifically for HAVE_PRAGMA_CLANG_DIAGNOSTIC_IGNORED_UNREACHABLE_CODE_RET support

2.963 2022-01-13 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adelsystem_cbi.c: try to reconnect on IVALID DATA and INVALID CRC from read_all_regs
- drivers/adelsystem_cbi.c: try to reconnect on INVALID DATA and INVALID CRC errors
- drivers/adele_cbi.c, drivers/adele_cbi.h, drivers/adelsystems_cbi.c, drivers/adelsystems_cbi.h: delete renamed driver files
- drivers/Makefile.am, drivers/adelsystem_cbi.c, drivers/adelsystem_cbi.h: filename fixes
- drivers/Makefile.am, drivers/adelsystems_cbi.c, drivers/adelsystems_cbi.h: adele changed to adelsystems
- drivers/adele_cbi.c, drivers/adele_cbi.h: macro name changes
- drivers/adele_cbi.c, drivers/adele_cbi.h: minor bug fixes
- drivers/adele_cbi.h: modify regs_data memory, devreg enum rearrangement
- drivers/adelsystem_cbi.c: try to reconnect on IVALID DATA and INVALID CRC from read_all_regs
- drivers/adelsystem_cbi.c: try to reconnect on INVALID DATA and INVALID CRC errors
- drivers/adele_cbi.c, drivers/adele_cbi.h, drivers/adelsystems_cbi.c, drivers/adelsystems_cbi.h: delete renamed driver files
- drivers/Makefile.am, drivers/adelsystem_cbi.c, drivers/adelsystem_cbi.h: filename fixes
- drivers/Makefile.am, drivers/adelsystems_cbi.c, drivers/adelsystems_cbi.h: adele changed to adelsystems
- drivers/adele_cbi.c, drivers/adele_cbi.h: macro name changes
- drivers/adele_cbi.c, drivers/adele_cbi.h: minor bug fixes
- drivers/adele_cbi.h: modify regs_data memory, devreg enum rearrangement

2.964 2022-01-12 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_compiler_family.m4: set default C/C+\+ standards to GNU dialects for GCC/CLANG
- m4/nut_compiler_family.m4: set default C/C+\+ standards to avoid C90-non-compliance warnings noise (on compilers that can do better than that)
- m4/nut_check_libnetsnmp.m4: fix a test from shell to autoscript
- tools/nut-scanner/nut-scanner.c: only evaluate if NUT_HAVE_LIBNETSNMP_* when we build WITH_SNMP
- common/common.c: use HAVE_PRAGMAS_FOR_GCC_DIAGNOSTIC_IGNORED_UNREACHABLE_CODE_RETURN
- m4/ax_c_pragmas.m4: add HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_UNREACHABLE_CODE_RETURN(_BESIDEF
- configure.ac, m4/nut_compiler_family.m4: m4/nut_compiler_family.m4 \+ configure.ac: refactor NUT_COMPILER_FAMILY_FLA as a separate method to apply just before we set up warning-level support
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: update dependency package naming for libusb-1.0 on Debian family
- m4/nut_compiler_family.m4: set default C/C+\+ standards to GNU dialects for GCC/CLANG
- m4/nut_compiler_family.m4: set default C/C+\+ standards to avoid C90-non-compliance warnings noise (on compilers that can do better than that)
- ci_build.sh: comment why ./configure is not without args
- drivers/generic_modbus.c: fix whitespace style (in PR-1239)

2.965 2022-01-12 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adele_cbi.c, drivers/adele_cbi.h: some fixes in read_all_regs approach
- drivers/adele_cbi.c, drivers/adele_cbi.h: read_all_regs aproach integrated
- drivers/adele_cbi.c, drivers/adele_cbi.h: some fixes in read_all_regs approach
- drivers/adele_cbi.c, drivers/adele_cbi.h: read_all_regs aproach integrated

2.966 2022-01-12 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/mge-xml.c: Eaton NMC: fix the non publication of real/power with 3ph power and realpower for 3ph Lx were not publishing values when they were 0
- drivers/mge-xml.c: Eaton NMC: fix the non publication of real/power with 3ph power and realpower for 3ph Lx were not publishing values when they were 0

2.967 2022-01-11 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict Updated for PR https://github.com/networkupstools/nut/pull/1256

2.968 2022-01-11 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/arduino-hid.c, drivers/delta_ups-hid.c, drivers/hidparser.c, drivers/idowell-hid.c, drivers/powervar-hid.c, drivers/salicru-hid.c: drivers/hidparser.c \+ *-hid.c: include "config.h" first
- drivers/generic_modbus.c: handle the two APIs for libmodbus timeout setting
- m4/nut_check_libmodbus.m4: in tests for API, the AC_DEFINE must be used with exact macro names (not m4/shell variables)
- m4/nut_check_libmodbus.m4: in tests for API, clarify if old API (timeval) can be used with variables from new API (uint32) set into the struct
- m4/nut_check_libmodbus.m4: in tests for API, "new/old" comments were confused
- m4/nut_check_libmodbus.m4: in tests for API, initialize modbus_t *ctx differently
- m4/nut_check_libmodbus.m4: test actively for the modbus timeout API (count and type of args used)
- m4/nut_check_libmodbus.m4: convert a code block from plain shell to autoscript
- m4/nut_check_libmodbus.m4: test for presence of modbus_set_byte_timeout() and modbus_set_response_timeout()
- m4/ax_c_pragmas.m4: detect support for (ignoring) "-Wsign-conversion"
- m4/ax_c_pragmas.m4: add guards to call AX_C_PRINTF_STRING_NULL and AX_C_PRAGMAS logic only once
- drivers/generic_modbus.c: bump DRIVER_VERSION for feature change (connection timeout handling)

2.969 2022-01-11 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adele_cbi.c, drivers/adele_cbi.h: ghost alarms bug fix, other bug fixes
- drivers/adele_cbi.c, drivers/adele_cbi.h: ghost alarms bug fix, other bug fixes
- drivers/adele_cbi.c, drivers/adele_cbi.h: ghost alarms bug fix, other bug fixes
- drivers/adele_cbi.c, drivers/adele_cbi.h: ghost alarms bug fix, other bug fixes

2.970 2022-01-11 Dave Williams <dave@opensourcesolutions.co.uk>

- drivers/cps-hid.c: New HID fix strategy after consultation with CPS It appears both input and output LogMin and LogMax values are incorrect as the rated voltage (for EU models) is 170v to 270v which is outside the logical limits reported by the HID. The fix checks for the error (loosely) and then applies reasonable values (0v and 511v) to allow the actual input and output voltages to be reported rather than be constrained to the limits.

2.971 2022-01-10 Jim Klimov <jimklimov@gmail.com>

- docs/man/powercom.txt: Update powercom.txt Sentence restructure

2.972 2022-01-10 Jim Klimov <jim@jimklimov.com>

- .github/pull_request_template.md: pull_request_template.md: update and reshuffle check-list items
- .../{PULL_REQUEST_TEMPLATE/nut-driver-PR.md ⇒ pull_request_template.md}: Move fancy-named PR template to plain .github/pull_request_template.md
- drivers/salicru-hid.c, scripts/upower/95-upower-hid.rules: drivers/salicru-hid.c: add known compatibility for Salicru SLC TWIN (PRO2, PRO3, RT3) per reports in issue #1142
- data/driver.list.in: add known compatibility for Salicru TWIN (PRO2, PRO3, RT3) per reports in issues #450 and #1142
- .github/PULL_REQUEST_TEMPLATE/nut-driver-PR.md: Add .github/PULL_REQUEST_TEMPLATE/nut-driver-PR.md template
- data/driver.list.in: fix English typos in comment
- docs/developers.txt: remind to update docs/acknowledgements.txt when adding vendor-backed support
- docs/man/usbhid-ups.txt: fix reference to data/driver.list (typo in filename)

2.973 2022-01-10 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adele_cbi.c, drivers/adele_cbi.h: first testing release
- drivers/adele_cbi.c, drivers/adele_cbi.h: first testing release
- drivers/adele_cbi.c, drivers/adele_cbi.h: first testing release
- drivers/adele_cbi.c, drivers/adele_cbi.h: first testing release

2.974 2022-01-10 Ablerexsoftware <Ablerex.software@ablerex.com.tw>

- data/driver.list.in: update the driver.list.in

2.975 2022-01-09 Rouben Tchakhmakhtchian <rouben@rouben.net>

- docs/man/powercom.txt, drivers/powercom.c: Powercom driver (drivers/powercom.c) version bump from 0.17 to 0.18: * Implement configuration flag "nobt" to skip battery test during initialization * Cleanup old code to use testvar() for config parameter checks in upsdrv_initups() * Add nobt flag to sample config file in built-in doc Powercom driver man page (docs/man/powercom.txt) update to explain nobt flag

2.976 2022-01-09 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adele_cbi.c, drivers/adele_cbi.h: alrm_t, alrm_ar_t data structures, construction of upsdrv_updateinfo in progress
- drivers/adele_cbi.c, drivers/adele_cbi.h: alrm_t, alrm_ar_t data structures, construction of upsdrv_updateinfo in progress
- drivers/adele_cbi.c, drivers/adele_cbi.h: alrm_t, alrm_ar_t data structures, construction of upsdrv_updateinfo in progress
- drivers/adele_cbi.c, drivers/adele_cbi.h: alrm_t, alrm_ar_t data structures, construction of upsdrv_updateinfo in progress

2.977 2022-01-08 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adele_cbi.c, drivers/adele_cbi.h: structure device data, code get_dev_state, in progress
- drivers/adele_cbi.c, drivers/adele_cbi.h: structure device data, code get_dev_state, in progress
- drivers/adele_cbi.c, drivers/adele_cbi.h: structure device data, code get_dev_state, in progress
- drivers/adele_cbi.c, drivers/adele_cbi.h: structure device data, code get_dev_state, in progress

2.978 2022-01-07 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-usbinfo.pl: be sure to have PATH_MAX defined (for usb.h that did not bother by itself)
- drivers/usb-common.h: be sure to have PATH_MAX defined (for usb.h that did not bother by itself)

2.979 2022-01-07 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adele_cbi.h: register status values and masks added
- drivers/adele_cbi.h: register status values and masks added
- drivers/adele_cbi.h: register status values and masks added
- drivers/adele_cbi.h: register status values and masks added

2.980 2022-01-06 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: Revert "Jenkinsfile-dynamatrix: be sure to reset slowBuild configs over dynacfgBase" This reverts commit 18cf19ebc7e01f30c3d84c7b3b8f69e961429ebb as the "design flaw" which that change worked around should now be (hopefully) fixed in the jenkins-fynamatrix library itselg.

2.981 2022-01-06 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/adele_cbi.c, drivers/adele_cbi.h: under construction
- drivers/Makefile.am: Makefile.am modifications
- drivers/adele_cbi.c, drivers/adele_cbi.h: under construction
- drivers/Makefile.am: Makefile.am modifications
- drivers/adele_cbi.c, drivers/adele_cbi.h: under construction
- drivers/Makefile.am: Makefile.am modifications
- drivers/adele_cbi.c, drivers/adele_cbi.h: under construction

2.982 2022-01-05 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_cppcheck.m4: relax required tool version for cppcheck*.xml generation
- Makefile.am: fix dependencies for cppcheck*.xml generation

2.983 2022-01-05 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: fix dynamatrixAxesCommonEnvCartesian cases to group the variables we apply as one bunch, not as several separate hits
- Jenkinsfile-dynamatrix: define dynacfgPipeline.excludeCombos_DEFAULT (mismatched ARCHes only)
- tools/nut-scanner/scan_avahi.c: avoid implicit case fallthrough
- Jenkinsfile-dynamatrix: be sure to reset slowBuild configs over dynacfgBase
- Jenkinsfile-dynamatrix: avoid running "cppcheck" several times per host

2.984 2022-01-04 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: reinstate excludeCombos for autotools-only builds (fightwarn) to avoid unsupported ARCH-bits mix builds

2.985 2022-01-04 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c: comment and code alignment fixes

2.986 2022-01-03 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: set DO_CLEAN_CHECK=no for default-tgt:cppcheck or docs-building scenarios by default, so we can get/archive those costly media files
- Jenkinsfile-dynamatrix: set DO_CLEAN_CHECK=no for default-tgt:cppcheck scenarios, so we can get that analysis data

2.987 2022-01-02 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: fix "Default autotools driven build with default warning levels (gnu99/gnu\+\+11)" dynamatrixAxesVirtualLabelsMap mergeMode from "merge" to "replace" (want to only build listed scenarios, not everything possible in the matrix)

2.988 2021-12-30 Jim Klimov <jimklimov+nut@gmail.com>

- tools/nut-scanner/nutscan-ip.c: include config.h first
- m4/nut_compiler_family.m4: do not test for "-fcolor-diagnostics" - redundant for clang, and sometimes toxic for gcc
- drivers/Makefile.am: snmp-ups uses fabsf() so needs libm
- drivers/nut-libfreeipmi.c: include config.h first
- drivers/microsol-apc.c: include config.h first
- drivers/genericups.c: include config.h first
- include/nut_stdint.h: define SSIZE_MAX if missing
- drivers/serial.h: pull more includes

2.989 2021-12-30 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: avoid using undefined (null) excludeCombos_DEFAULT
- Jenkinsfile-dynamatrix: fix references to excludeCombos: ... axisCombos_COMPILER_(NOT_)GCC
- docs/developers.txt, docs/nut.dict: docs/developers.txt: update about C89/GNU89 support (with GCC toolkit)
- Jenkinsfile-dynamatrix: separate C89/C90/ANSI builds with GCC (can actually pass strict and GNU modes) and CLANG (more pedantic)
- Jenkinsfile-dynamatrix: typo fix for disableSlowBuildCIBuildExperimentalANSI
- drivers/Makefile.am: metasys uses fabsf() so needs libm
- drivers/nutdrv_qx.c: fix comments to C-style
- drivers/powercom.c: fix comments to C-style
- drivers/microdowell.h: fix comments to C-style
- drivers/solis.h: fix comments to C-style
- drivers/libshut.c: fix comments to C-style
- drivers/openups-hid.c: include config.h first
- drivers/snmp-ups.c: fix comments to C-style
- drivers/riello_usb.c: fix comments to C-style
- drivers/generic_modbus.h: fix comments to C-style
- tools/nut-scanner/scan_xml_http.c: fix comments to C-style
- tools/nut-scanner/nut-scanner.c: fix comments to C-style
- tools/nut-scanner/nutscan-init.c: fix comments to C-style
- tools/nut-scanner/scan_eaton_serial.c: fix comments to C-style
- tools/nut-scanner/scan_snmp.c: fix comments to C-style
- tools/nut-scanner/scan_nut.c: fix comments to C-style
- server/upsd.c: fix comments to C-style
- server/conf.c: fix comments to C-style
- drivers/bcmxcp.c: fix comments to C-style
- drivers/main.c: fix comments to C-style
- common/upsconf.c: include config.h first
- common/str.c: fix comments to C-style
- server/user.c: include config.h first
- server/desc.c: include config.h first
- drivers/upsdrvctl.c: include config.h first
- drivers/riello_usb.c: include config.h first
- drivers/riello_ser.c: include config.h first
- drivers/rhino.c: include config.h first

- drivers/mge-utalk.c: include config.h first
- drivers/libhid.c: include config.h first, and try to get strings.h explicitly
- drivers/huawei-ups2000.c: include config.h first
- drivers/dummy-ups.c: include config.h first
- drivers/dstate.c: include config.h first
- tools/nut-scanner/scan_eaton_serial.c: try to include explicitly both of (sys/)signal.h
- server/upsd.c: try to include explicitly both of (sys/)signal.h
- tools/nut-scanner/nutscan-serial.c: include config.h first
- tools/nut-scanner/nutscan-device.c: include config.h first
- drivers/mge-xml.c: include config.h first
- drivers/libshut.c: include config.h first
- common/state.c: include config.h first
- common/str.c: include config.h first, and try to get strings.h explicitly
- include/common.h: try to include explicitly string(s).h and (sys/)signal.h
- configure.ac: test more actively for strcasecmp, strncasecmp, strdup and usleep methods that are problematic for strict C99\+ builds
- configure.ac: detect explicitly string(s).h and (sys/)signal.h

2.990 2021-12-29 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nut-libfreeipmi.c: be pragmatic about possibly unreachable error handling in arch-dependent range check
- drivers/nut-libfreeipmi.c: mark local vars as static
- configure.ac: constrain warning-tweaks against macro str*() and ntohl/htonl to LIBNETSNMP_CFLAGS (empirically)
- configure.ac: detect if compiler (e.g. older clang-3.4) has a problem with built-in/macro variants of system str*() and htonl/ntohl functions at our higher warning levels, and mitigate that
- m4/nut_compiler_family.m4: rearrange detection order of compiler flags
- drivers/generic_modbus.c: quiesce warnings about unreachable-code (default after full enum-case handling) with older clang
- drivers/bcmxcp_usb.c: ignore potentially unreachable code in assert()
- drivers/nutdrv_qx.c: quiesce warnings about unreachable-code (default after full enum-case handling) with older clang
- drivers/upscode2.c: quiesce warnings about unreachable-code (default after full enum-case handling) with older clang
- drivers/hidparser.c: ignore potentially unreachable code in platforms-dependent range checks
- drivers/libhid.c: ignore potentially unreachable code in platforms-dependent range checks
- drivers/libshut.c: tell compiler that we do want to treat a char array (managed by comms code) as the aligned pointer to struct
- drivers/libshut.c: adjust data_size usage to usb_ctrl_charbufsize typedef - fix pragmas for range-checks
- drivers/usbhid-ups.c: quiesce warnings about unreachable-code (default after full enum-case handling) with older clang
- drivers/genericups.c: ignore potentially unreachable code in platforms-dependent range checks
- drivers/bestuferrups.c: ignore potentially unreachable code in assert(0)

- drivers/bestfcom.c: ignore potentially unreachable code in assert(0)
- clients/upsmon.c: ignore potentially unreachable code in platforms-dependent range checks
- tools/nut-scanner/scan_nut.c: ignore potentially unreachable code in platforms-dependent range checks
- tools/nut-scanner/nutscan-init.c: ignore potentially unreachable code in platforms-dependent range checks
- server/upsd.c: quiesce warnings about unreachable-code (default after full enum-case handling) with older clang
- configure.ac: update "clang-medium" warnings level with "-Wno-conversion" for older clang releases
- ci_build.sh: introduce CI_FAILFAST for BUILD_TYPE=default-all-errors
- ci_build.sh: use configurable --enable-Wcolor for compiler warnings in default quick build
- ci_build.sh: use configurable --enable-Wcolor for compiler warnings in all BUILD_TYPEs
- configure.ac, m4/nut_compiler_family.m4: configure.ac \+ m4/nut_compiler_family.m4: allow configurable --enable-Wcolor for compiler warnings
- m4/nut_compiler_family.m4: add diagnostics-color support for GCC
- configure.ac, m4/ax_check_compile_flag.m4, m4/nut_compiler_family.m4: m4/nut_compiler_family.m4: use AX_CHECK_COMPIL to detect generic options supported by compilers

2.991 2021-12-29 Jim Klimov <jim@jimklimov.com>

- configure.ac: zero-init struct in ntohl/htonl warning-tweaks test code

2.992 2021-12-28 Jim Klimov <jimklimov@gmail.com>

- drivers/usbhid-ups.c: fix_report_desc(): avoid shadowing global var with method arg name
- drivers/usbhid-ups.c: fix_report_desc(): mark NUT_UNUSED_VARIABLEs

2.993 2021-12-28 Jim Klimov <jim@jimklimov.com>

- configure.ac: pass "-Wno-disabled-macro-expansion" in clang-medium and clang-hard modes, to avoid choking on systems-provided strncmp() etc.
- drivers/bcmxcp_ser.c: pw_comm_setup(): ignore potentially unreachable code in platforms-dependent range checks
- tools/nut-scanner/nut-scanner.c: ignore potentially unreachable code in platforms-dependent range checks
- common/common.c: get_user_pwent(): ignore "-Wunreachable-code" where we were required to have a return
- common/common.c: get_max_pid_t(): avoid warnings in C89/C90/ANSI builds **because** we check for LLONG_MAX macro
- common/common.c: get_max_pid_t(): ignore "-Wunreachable-code"
- common/common.c: vupslog(): ignore "-Wformat-nonliteral" with older clang too
- configure.ac: with (older) clang, ignore "unused-arguments" (of clang program)
- server/upsd.c: mainloop(): ignore "-Wcovered-switch-default" with older clang too
- clients/upsclient.c: upscli_init(): fix "ret" to "long", to match some versions of SSL_CTX_ctrl() (from openssl/ssl.h e.g. in FreeBSD)
- drivers/riello_usb.c: riello_command(): handle possibly undefined ETIME

- drivers/blazer_usb.c: blazer_command(): handle possibly undefined ETIME
- drivers/blazer_usb.c: phoenix_command(): avoid fall-through in a case
- drivers/nutdrv_qx.c: qx_command(): handle possibly undefined ETIME
- drivers/nutdrv_qx.c: phoenix_command(): avoid fall-through in a case
- drivers/mge-hid.c: nominal_output_voltage_fun(): explicitly fall-through in a case
- drivers/libshut.c: shut_control_msg(): explicitly fall-through in a case, and finish the default with a break
- m4/nut_compiler_family.m4: comment away setting "-isystem ..." common paths early in CFLAGS
- configure.ac: set "-Wno-system-headers" early in gcc/clang medium and hard warning levels
- m4/nut_compiler_family.m4: set "-isystem ..." paths early in CFLAGS
- Jenkinsfile-dynamatrix: expel other C89/C90/ANSI builds to only happen if not disableSlowBuildCIBuildExperimentalANSI and only in branches (or PRs to) matching \~/fightwarn.**89./** currently
- configure.ac: try to handle warnings in system headers at our medium and hard levels
- docs/man/nutdrv_qx.txt: mention Armac in SUPPORTED HARDWARE section, and wrap long lines there
- docs/man/nutdrv_qx.txt, docs/nut.dict: docs/man/nutdrv_qx.txt: port notes for "armac" subdriver from source code
- drivers/nutdrv_qx.c: armac_command(): move variable declarations to top of scope
- drivers/nutdrv_qx.c: armac_command(): fix varied int types to size_t, and move equation sides around to avoid signedness
- drivers/nutdrv_qx.c: armac_command(): zero out whole tmpbuf[], not one element
- drivers/nutdrv_qx.c: normalize whitespace for "armac" code addition
- drivers/nutdrv_qx.c: add © for "armac" code addition
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: add a troubleshooting section, with entry for cgroupsv1-only guests on a cgroupsv2-only host
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: add a chapter for CentOS 7 agent preparation
- docs/config-prereqs.txt: clarify that OpenBSD multitude of autotools versions is a blessing, not a pain ;)
- docs/config-prereqs.txt: clarify that JDK installation in Debian guests may need /proc submounted
- docs/ci-farm-lxc-setup.txt: move "sudo" installation away from useradd example (so "apt-get" does not pollute non-debian guest examples)
- docs/ci-farm-lxc-setup.txt: change CentOS7 example guest name from ...-x86_64 to ...-x86-64 (or -amd64) to avoid loss of character
- docs/ci-farm-lxc-setup.txt: avoid "AltArch" CentOS i686, use just x86_64 as something easier to get hands on

2.994 2021-12-27 hunter86bg <hunter86_bg@yahoo.com>

- data/driver.list.in: Add Cyber Power PR1500RT2U, fixes nut#1191

2.995 2021-12-27 Jim Klimov <jim@jimklimov.com>

- docs/ci-farm-lxc-setup.txt: remind to revise container MAC addresses
- docs/ci-farm-lxc-setup.txt: clarify that "third-party distro" LXC helpers may need chiseling
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: hint at needed "pacman" for Arch Linux container installation
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: add installation of RPM based distros as guests on non-RPM (DEB) hosts
- docs/ci-farm-lxc-setup.txt: clarify how to find defined LXC templates, and get usage details about them

2.996 2021-12-25 Tomasz Fortuna <bla@thera.be>

- data/driver.list.in, docs/man/nutdrv_qx.txt, docs/nut.dict, drivers/nutdrv_qx.c: drivers/nutdrv_qx.c: add support for Armac UPS (or maybe other richcomm_usb like) Based on Armac R/2000I/PSW, but should support other UPSes that work with "PowerManagerII" software from Richcomm Technologies from around 2004-2005.

2.997 2021-12-25 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usb-common.h: map libusb_detach_kernel_driver_np (1.0) as usb_detach_kernel_driver_np (0.1)
- drivers/usb-common.h: map libusb_detach_kernel_driver_np (1.0) as usb_detach_kernel_driver_np (0.1)

2.998 2021-12-25 Jim Klimov <jim@jimklimov.com>

- drivers/riello_ser.c: do not include hidparser.h (hiccups in usb-common.h due to lack of WITH_LIBUSB_x_y)
- drivers/riello_ser.c: do not include hidparser.h (hiccups in usb-common.h due to lack of WITH_LIBUSB_x_y)
- drivers/libshut.c: adjust data_size usage to usb_ctrl_charbufsize typedef
- drivers/libshut.c: adjust data_size usage to usb_ctrl_charbufsize typedef
- drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, drivers/usb-common.h, m4/nut_check_libusb.m4: m4/nut_check_libusb.m4, drivers/usb-common.h \+ nutdrv_atcl_usb.c
  richcomm_usb.c: only apply usb_detach_kernel_driver_np to libusb-0.1 builds (no alias tricks)
- drivers/libusb1.c, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, m4/nut_check_libusb.m4: m4/nut_check_libusb.m4, drivers/libusb1.c \+ nutdrv_atcl_usb.c
  richcomm_usb.c: honor that libusb-1.0 may HAVE_LIBUSB_DETACH_KERNEL_DRIVER_NP
- drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, drivers/usb-common.h, m4/nut_check_libusb.m4: m4/nut_check_libusb.m4, drivers/usb-common.h \+ nutdrv_atcl_usb.c
  richcomm_usb.c: only apply usb_detach_kernel_driver_np to libusb-0.1 builds (no alias tricks)
- drivers/libusb1.c, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, m4/nut_check_libusb.m4: m4/nut_check_libusb.m4, drivers/libusb1.c \+ nutdrv_atcl_usb.c
  richcomm_usb.c: honor that libusb-1.0 may HAVE_LIBUSB_DETACH_KERNEL_DRIVER_NP

2.999 2021-12-24 Jim Klimov <jim@jimklimov.com>

- drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, drivers/riello_usb.c: drivers/riello_usb.c, richcomm_usb.c, nutdrv_atcl_usb.c: fix remaining uses of (lib)usb_strerror with nut_usb_strerror()
- configure.ac: update "clang-medium" warnings pre-set with -Wno-incompatible-pointer-types-discards-qualifiers
- drivers/libusb1.c: some more whitespace and comment fixes
- drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, drivers/riello_usb.c: drivers/riello_usb.c, richcomm_usb.c, nutdrv_atcl_usb.c: fix remaining uses of (lib)usb_strerror with nut_usb_strerror()
- tools/nut-scanner/scan_usb.c: missed whitespace fixes
- tools/nut-scanner/scan_usb.c: comment "#else WITH_LIBUSB_. . . " in long blocks
- drivers/libshut.c: shut_control_msg(): data_size is a "short int" (not size_t) in this branch
- drivers/libusb1.c: HAVE_LIBUSB_DETACH_KERNEL_DRIVER needs "#ifdef" not "#if"
- drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, tools/nut-scanner/scan_usb.c: Convert C code from "#ifdef WITH_LIBUSB_x_y" to "#if" tests for defined value - merging missed a few in libusb-1.0\+0.1 branch
- configure.ac: update "clang-medium" warnings pre-set with -Wno-incompatible-pointer-types-discards-qualifiers
- drivers/libshut.c: shut_control_msg(): data_size is a "short int" (not size_t) in this branch
- drivers/libusb1.c: HAVE_LIBUSB_DETACH_KERNEL_DRIVER needs "#ifdef" not "#if"
- configure.ac, m4/nut_check_libusb.m4: m4/nut_check_libusb.m4 \+ configure.ac: port newer solution for libusb version selection from libusb-1.0 branch

2.1000 2021-12-24 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c: fix in modbus response value check

2.1001 2021-12-23 dtsecon <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c, drivers/generic_modbus.h: handle broken pine error in modbus TCP connections, configurable modbus response timeouts between requests and frame bytes

2.1002 2021-12-23 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh: separate the "RES" vars used for configure_nut() and default-all-errors processing (extend to libusb-1.0* branches)
- tests/getvaluetest.c: include "config.h" first
- tests/Makefile.am: only TEST getvaluetest "if WITH_USB"
- m4/nut_check_libusb.m4: do not report misleading "none (libusb-0.1-config)" as the detected libusb version Seems this confused not only human readers, but also the verdict - whether we build WITH_USB
- ci_build.sh: separate the "RES" vars used for configure_nut() and default-all-errors processing (extend to libusb-1.0* branches
- tests/getvaluetest.c: include "config.h" first
- tests/Makefile.am: only TEST getvaluetest "if WITH_USB"

2.1003 2021-12-22 Jim Klimov <jim@jimklimov.com>

- clients/upsclient.c: upscli_tryconnect(): in logged messages, clarity "connect to NUT server %s" Otherwise nut-scanner output looks awkward when looking at large subnets with many protocols (including "Old NUT")
- tools/nut-scanner/scan_snmp.c: convert logging in the main loop from a lot of fprintf() to manageable upsdebugx()
- tools/nut-scanner/scan_ipmi.c: convert logging in the main loop from a lot of fprintf() to manageable upsdebugx()
- ci_build.sh: fix a typo, copypasted around
- tests/Makefile.am: only build getvaluetest "if WITH_USB"
- drivers/blazer_usb.c: forget libusb_device_handle
- drivers/libhid.h: forget libusb_device_handle
- ci_build.sh: fix a typo, copypasted around
- tests/Makefile.am: only build getvaluetest "if WITH_USB"
- drivers/blazer_usb.c: forget libusb_device_handle
- drivers/libhid.h: forget libusb_device_handle

2.1004 2021-12-21 Jim Klimov <jimklimov@gmail.com>

- drivers/legrand-hid.c: fix type of usb_device_id_t vendorID/productID to uint16_t * *{usb,hid}.c: sentinel in a table of uint16_t can not be -1
- drivers/nutdrv_qx.c: Update nutdrv_qx.c Fix this on some of the CI platforms: ```` [2021-12-21T09:21:47.623Z] nutdrv_qx.c:1665:2: error: initialization from incompatible pointer type [-Werror] [2021-12-21T09:21:47.623Z] { USB_DEVICE(0xffff, 0x0000), NULL, NULL, &ablerex_subdriver }, /* Ablerex 625L USB */ [2021-12-21T09:21:47.623Z] \^ [2021-12-21T09:21:47.623Z] nutdrv_qx.c:1665:2: error: (near initialization for *qx_usb_id[1].fun*) [-Werror] ````
- docs/nut.dict: Update nut.dict Update for PR #1135

2.1005 2021-12-21 Jim Klimov <jim@jimklimov.com>

- configure.ac: switch default warnings level to "medium"
- drivers/usbhid-ups.c: range-check quiesced by pragmas (GCC)
- drivers/libusb0.c: do not separate if-clause parenthesis by pragmas (GCC)
- drivers/libusb1.c: do not separate if-clause parenthesis by pragmas (GCC)
- drivers/libshut.c: do not separate if-clause parenthesis by pragmas (GCC)
- drivers/hidparser.c: do not separate if-clause parenthesis by pragmas (GCC)
- configure.ac: switch default warnings level to "medium"
- drivers/usbhid-ups.c: range-check quiesced by pragmas (GCC)
- drivers/libusb0.c: do not separate if-clause parenthesis by pragmas (GCC)
- drivers/libusb1.c: do not separate if-clause parenthesis by pragmas (GCC)
- drivers/libshut.c: do not separate if-clause parenthesis by pragmas (GCC)
- drivers/hidparser.c: do not separate if-clause parenthesis by pragmas (GCC)
- drivers/usb-common.h: include "common.h"

- drivers/usb-common.h: include "common.h"
- docs/nut.dict: update for recent NEWS
- NEWS: prepare for nutdrv-qx legrand merge in 2.7.5 timeline
- NEWS: prepare for nutdrv-qx ablerex merge in 2.7.5 timeline
- NEWS: know about usbhid-ups Delta Minuteman support for NUT v2.7.5
- NEWS: fix USB LogMin/LogMax mismatch reporting (just once!) for NUT v2.7.5
- NEWS: add a little delay between multicommands [PR #1228] for NUT v2.7.5
- NEWS: prepare for libusb-1.0 merge in 2.7.5 timeline
- ci_build.sh: separate the "RES" vars used for configure_nut() and default-all-errors processing
- drivers/usbhid-ups.c: date_conversion_fun(): hush a string overflow warning (overkill the buffer size a bit)
- docs/developers.txt, docs/nut.dict: docs/developers.txt: note that we define "gcc-medium\|gcc-hard" warnings without "pedantic" for C89/C90/ANSI builds (flaws in OS headers are out of our control)
- configure.ac: define "gcc-medium\|gcc-hard" warnings with "extra" always, but without "pedantic" for C89/C90/ANSI builds (flaws in OS headers are out of our control)
- tests/Makefile.am: consider LIBUSB_CFLAGS when building parser test
- Jenkinsfile-dynamatrix: separate (and disable by default) ANSI C build scenarios, they are too noisy in fightwarn for no real good
- common/common.c: s_upsdebug*(): move fmt2[] declarations to top from code
- common/common.c: fix comments from // to /* */
- drivers/hidparser.h: include "config.h"
- server/upsd.c: #include config.h first
- scripts/upower/95-upower-hid.rules: Update 95-upower-hid.rules Add VID/PID for Minuteman UPS
- drivers/blazer_usb.c: cast tmp as char* Older compilers complain that we are: passing argument 3 of *usb_interrupt_read* from incompatible pointer type expected *char but argument is of type* char ()*[512]*

2.1006 2021-12-20 hunter86bg <hunter86_bg@yahoo.com>

- data/driver.list.in: Add Powerwalker VFI 3000 TG Online UPS to driver.list.in (#1224)

2.1007 2021-12-20 Jim Klimov <jimklimov@gmail.com>

- drivers/nutdrv_qx.c: Update nutdrv_qx.c Whitespace fix
- drivers/hidparser.c: Update hidparser.c Fix whitespace in recent changes for LogMin/LogMax rectification

2.1008 2021-12-20 Jim Klimov <jim@jimklimov.com>

- drivers/libusb1.c: fix whitespace (break long lines)
- drivers/libshut.h: define ERROR_ACCESS etc. used for USB(-like) result states
- drivers/libusb1.c: fix whitespace (break long lines)
- drivers/libshut.h: define ERROR_ACCESS etc. used for USB(-like) result states
- tools/nut-scanner/scan_usb.c: fix whitespace (indentation etc)
- drivers/nutdrv_atcl_usb.c: drop local libusb-0.1 vs 1.0 definitions now provided by usb-common.h
- m4/nut_check_libusb.m4: update comments
- drivers/usb-common.h: whitespace-separate definitions of ERROR_ACCESS etc., nut_usb_strerror() and similar macros
- drivers/bcmxcp_usb.c: comment FIXME for possible uses of usb_ctrl_* typedefs
- drivers/richcomm_usb.c: fix whitespace (break long lines)
- drivers/riello_usb.c: fix whitespace (break long lines)
- tools/nut-scanner/scan_usb.c: fix whitespace (indentation etc)
- drivers/nutdrv_atcl_usb.c: drop local libusb-0.1 vs 1.0 definitions now provided by usb-common.h
- m4/nut_check_libusb.m4: update comments
- drivers/usb-common.h: whitespace-separate definitions of ERROR_ACCESS etc., nut_usb_strerror() and similar macros
- drivers/bcmxcp_usb.c: comment FIXME for possible uses of usb_ctrl_* typedefs
- drivers/richcomm_usb.c: fix whitespace (break long lines)
- drivers/riello_usb.c: fix whitespace (break long lines)
- tools/nut-scanner/scan_usb.c: fix whitespace (indentation etc)
- drivers/usbhid-ups.c: fix whitespace (break long lines)
- drivers/riello_usb.c: fix whitespace (break long lines)
- drivers/richcomm_usb.c: fix whitespace (break long lines)
- drivers/nutdrv_qx.c: fix whitespace (break long lines)
- drivers/blazer_usb.c: fix whitespace (break long lines)

2.1009 2021-12-19 Scott Colby <scott@scolby.com>

- drivers/usbhid-ups.c: Add a short sleep between fallback instcmds in usbhid-ups. For some devices, missing instcmds are emulated by calling two instcmds that do exist in sequence. For some devices, when these commands arrive too quickly, they are not properly processed. (One, both, or neither of the commands are acted upon.) Adding a 1/8th-second delay (125,000 microseconds) between the two instcmds that make up the fallback command has worked to make the TrippLite AVR750U (new version with the 3024 productId/protocol) behave consistently when using the fallback commands (shutdown.return and shutdown.stayoff). This delay is also short enough that it seems unlikely to cause a problem for any devices which don't exhibit this issue.

2.1010 2021-12-19 Jim Klimov <jim@jimklimov.com>

- drivers/hidparser.c, drivers/hidparser.h, drivers/libhid.c, drivers/libhid.h, drivers/libshut.c, drivers/libshut.h, drivers/libusb0.c, drivers/libusb1.c, drivers/nut_libusb.h, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.h, drivers/usbhid-ups.c: drivers (c,h) USB, HID and SHUT: converge parameter usage from strict int types to backend API dependent "usb_ctrl_*" and "usb_dev_handle" typedefs, then range-check and cast the numbers, and avoid build warnings
- drivers/hidparser.c, drivers/hidparser.h, drivers/libhid.c, drivers/libhid.h, drivers/libshut.c, drivers/libshut.h, drivers/libusb0.c, drivers/libusb1.c, drivers/nut_libusb.h, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.h, drivers/usbhid-ups.c: drivers (c,h) USB, HID and SHUT: converge parameter usage from strict int types to backend API dependent "usb_ctrl_*" and "usb_dev_handle" typedefs, then range-check and cast the numbers, and avoid build warnings
- m4/nut_check_libusb.m4: make sure (missing) methods from another API are defined in config.h (so "#if HAVE_..." is valid and not guessed as 0)
- m4/nut_check_libusb.m4: make sure (missing) methods from another API are defined in config.h (so "#if HAVE_..." is valid and not guessed as 0)
- ci_build.sh: allow to build custom NUT_USB_VARIANTS=libusb-x.y (not plain "x.y")
- ci_build.sh: allow to build custom NUT_USB_VARIANTS and skip building a separate NUT_SSL_VARIANTS=auto
- ci_build.sh: allow to build custom NUT_USB_VARIANTS=libusb-x.y (not plain "x.y")
- ci_build.sh: allow to build custom NUT_USB_VARIANTS and skip building a separate NUT_SSL_VARIANTS=auto
- ci_build.sh: allow to build custom NUT_USB_VARIANTS=libusb-x.y (not plain "x.y")
- ci_build.sh: allow to build custom NUT_USB_VARIANTS and skip building a separate NUT_SSL_VARIANTS=auto
- drivers/hidparser.c, drivers/hidparser.h: drivers/hidparser.{c,h}: fix ReportDescSize from int to size_t

2.1011 2021-12-18 Dave Williams <dave@opensourcesolutions.co.uk>

- drivers/apc-hid.c, drivers/arduino-hid.c, drivers/belkin-hid.c, drivers/cps-hid.c, drivers/delta_ups-hid.c, drivers/explore-hid.c, drivers/hidtypes.h, drivers/idowell-hid.c, drivers/liebert-hid.c, drivers/mge-hid.c, drivers/openups-hid.c, drivers/powercom-hid.c, drivers/powervar-hid.c, drivers/salicru-hid.c, drivers/tripplite-hid.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: Fix #439 Incorrect Output Voltage on CPS*EFPCLCD

2.1012 2021-12-16 Jim Klimov <jim@jimklimov.com>

- drivers/usb-common.h: define PRI_NUT_USB_CTRL_CHARBUFSIZE, usb_ctrl_msgvalue and usb_ctrl_strindex
- drivers/usb-common.h: clarify that libusb timeouts are in milliseconds (with variouts int types per API version)
- drivers/usb-common.h: update comment about mapping from libusb-0.1 to libusb-1.0 API
- drivers/nut_libusb.h: comment the practical mess around hid_rep_index
- drivers/usb-common.h: comment which API version each endif is for
- drivers/usb-common.h: note the arg type for libusb_strerror() in comments to our macro wrapper nut_usb_strerror()
- drivers/usb-common.h: update heading comment with references to different API docs
- drivers/usb-common.h: update heading comment and © for libusb-1.0 related changes
- drivers/usb-common.h: define PRI_NUT_USB_CTRL_CHARBUFSIZE, usb_ctrl_msgvalue and usb_ctrl_strindex
- drivers/usb-common.h: clarify that libusb timeouts are in milliseconds (with variouts int types per API version)

- drivers/usb-common.h: update comment about mapping from libusb-0.1 to libusb-1.0 API
- drivers/nut_libusb.h: comment the practical mess around hid_rep_index
- drivers/usb-common.h: comment which API version each endif is for
- drivers/usb-common.h: note the arg type for libusb_strerror() in comments to our macro wrapper nut_usb_strerror()
- drivers/usb-common.h: update heading comment with references to different API docs
- drivers/usb-common.h: update heading comment and © for libusb-1.0 related changes
- include/nut_stdint.h: make sure we know PRIsize and PRIssize

2.1013 2021-12-16 Ablerexsoftware <Ablerex.software@ablerex.com.tw>

- docs/acknowledgements.txt, docs/man/nutdrv_qx.txt, docs/nutdrv_qx-subdrivers.txt, drivers/Makefile.am, drivers/nutdrv_qx.c: modify CI warnings and Replace the new sub driver

2.1014 2021-12-15 Nick Briggs <nicholas.h.briggs@gmail.com>

- drivers/hidparser.c: Move check for LogMax encoding error to parsing of report description At least one UPS [APC Back-UPS BX1600MI FW:294201G -302201G] is known to have encoding errors in its USB HID report description such that a conforming interpretation of the encoded LogicalMaximum value indicates that it is -1 and the resulting LogicalMin..LogicalMax range is 0..-1. The actual report values read are correctly encoded. Rather than log a range error each time a value is read we can detect the encoding error when the report description is read (once, at startup) and adjust for the encoding error at that time.

2.1015 2021-12-15 Jim Klimov <jim@jimklimov.com>

- drivers/libshut.c: shut_control_msg(): range-check data_size before stuffing the number into a char
- drivers/libshut.c: range-check and cast ints to struct members and library args
- drivers/libshut.c: braces fix
- drivers/nut_libusb.h, drivers/usb-common.h: drivers/usb-common.h \+ nut_libusb.h: typedef more usb_ctrl_* tokens to match libusb-0.1 vs 1.0 API
- drivers/libshut.c: shut_control_msg(): range-check data_size before stuffing the number into a char
- drivers/libshut.c: range-check and cast ints to struct members and library args
- drivers/libshut.c: braces fix
- drivers/nut_libusb.h, drivers/usb-common.h: drivers/usb-common.h \+ nut_libusb.h: typedef more usb_ctrl_* tokens to match libusb-0.1 vs 1.0 API
- drivers/libshut.h: whitespace fixes (make func ptrs more visible)
- drivers/libhid.c, drivers/libhid.h: drivers/libhid.{c,h}: HIDGetDataValue(), refresh_report_buffer(), get_item_buffered(): fix "age" from int to time_t, to match time() operations
- drivers/usbhid-ups.c: date_conversion_fun(): comment and cast numeric type conversions

2.1016 2021-12-13 Jim Klimov <jim@jimklimov.com>

- drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/usb-common.h: USB: Rename typedef usb_ctrl_char to usb_ctrl_charbuf to avoid confsion (it is a char* sibling, not plain char)
- drivers/libshut.h, drivers/nut_libusb.h: drivers/nut_libusb.h, libshut.h: whitespace fixes (align "version")
- drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/usb-common.h: USB: Rename typedef usb_ctrl_char to usb_ctrl_charbuf to avoid confsion (it is a char* sibling, not plain char)
- drivers/libshut.h, drivers/nut_libusb.h: drivers/nut_libusb.h, libshut.h: whitespace fixes (align "version")
- drivers/libusb.h: whitespace fixes (make func ptrs more visible)

2.1017 2021-12-10 Jim Klimov <jim@jimklimov.com>

- drivers/usbhid-ups.c: current use of SHUT_MODE relies on defined/not-defined, not on value for plain #if macro
- drivers/nutdrv_qx.c: adapt to usb-common.h and (usb_ctrl_char) casting
- drivers/bcmxcp_usb.c: adapt to usb-common.h and (usb_ctrl_char) casting
- drivers/nutdrv_atcl_usb.c: adapt to usb-common.h and (usb_ctrl_char) casting
- drivers/riello_usb.c: adapt to usb-common.h and (usb_ctrl_char) casting
- drivers/riello.h: do not define duplicate USB_ENDPOINT_IN/USB_ENDPOINT_OUT
- aliases to real mappings with range-checks for libusb-1.0 API
- drivers/usb-common.h: mark "static inline" functions with HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_TYPE_LIMITS_BE since not all C files call them
- drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/libhid.h, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.h: drivers/usb-common.h: consolidate libusb-0.1 vs 1.0 data/-func mappings from *usb.c files
- drivers/nut_libusb.h, drivers/usb-common.h: drivers/nut_libusb.h already includes "usb-common.h" so no need to pull LibUSB headers again
- drivers/bcmxcp_usb.c: range-check and cast args for usb_control_msg() ⇒ libusb_control_transfer() and usb_interrupt_read() ⇒ libusb_interrupt_transfer() for libusb-1.0 support
- drivers/usbhid-ups.c: current use of SHUT_MODE relies on defined/not-defined, not on value for plain #if macro
- drivers/nutdrv_qx.c: adapt to usb-common.h and (usb_ctrl_char) casting
- drivers/bcmxcp_usb.c: adapt to usb-common.h and (usb_ctrl_char) casting
- drivers/nutdrv_atcl_usb.c: adapt to usb-common.h and (usb_ctrl_char) casting
- drivers/riello_usb.c: adapt to usb-common.h and (usb_ctrl_char) casting
- drivers/riello.h: do not define duplicate USB_ENDPOINT_IN/USB_ENDPOINT_OUT
- aliases to real mappings with range-checks for libusb-1.0 API
- drivers/usb-common.h: mark "static inline" functions with HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_TYPE_LIMITS_BE since not all C files call them
- drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/libhid.h, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.h: drivers/usb-common.h: consolidate libusb-0.1 vs 1.0 data/-func mappings from *usb.c files

- drivers/nut_libusb.h, drivers/usb-common.h: drivers/nut_libusb.h already includes "usb-common.h" so no need to pull LibUSB headers again
- drivers/bcmxcp_usb.c: range-check and cast args for usb_control_msg() ⇒ libusb_control_transfer() and usb_interrupt_read() ⇒ libusb_interrupt_transfer() for libusb-1.0 support
- ci_build.sh: comment the rationale reminder for "default-all-errors" mode
- ci_build.sh: try more options for non-verbose MAKE runs
- conf/upsmon.conf.sample.in: update suggestions and envvar list for NOTIFYCMD callouts
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_UNUSED_FUNCTION

2.1018 2021-12-09 Jim Klimov <jim@jimklimov.com>

- tools/nut-usbinfo.pl: sanity check that exactly one version of WITH_LIBUSB_x_y is set (defined and has value 1)
- drivers/usb-common.h: sanity check that exactly one version of WITH_LIBUSB_x_y is set (defined and has value 1)
- drivers/bcmxcp_usb.c: sanity check that exactly one version of WITH_LIBUSB_x_y is set (defined and has value 1)
- tools/nut-usbinfo.pl: sanity check that exactly one version of WITH_LIBUSB_x_y is set (defined and has value 1)
- drivers/usb-common.h: sanity check that exactly one version of WITH_LIBUSB_x_y is set (defined and has value 1)
- drivers/bcmxcp_usb.c: sanity check that exactly one version of WITH_LIBUSB_x_y is set (defined and has value 1)
- configure.ac, m4/nut_check_libusb.m4: configure.ac \+ m4/nut_check_libusb.m4: rectify WITH_LIBUSB_x_y definitions
- configure.ac, m4/nut_check_libusb.m4: configure.ac \+ m4/nut_check_libusb.m4: rectify WITH_LIBUSB_x_y definitions
- ci_build.sh: Refactor `./ci_build.sh spellcheck` to be more useful
- ci_build.sh: refactor build_to_only_catch_errors_target() out of build_to_only_catch_errors()
- ci_build.sh, docs/developers.txt: ci_build.sh: introduce support for CI_SHELL_IS_FLAKY=true
- docs/developers.txt: when introducing ci_build.sh, mention that NUT CI farm tells how to reproduce builds

2.1019 2021-12-08 Mauro Guerrera <mauroguerrera@eaton.com>

- docs/man/snmp-ups.txt: Update snmp-ups docs
- docs/man/nut-scanner.txt: Update docs to list new auth and privacy encryption options

2.1020 2021-12-08 Jim Klimov <jimklimov@gmail.com>

- docs/man/nut-scanner.txt: Update nut-scanner.txt Clarify SNMP auth/priv proto support depends on Net-SNMP lib
- docs/man/snmp-ups.txt: Update snmp-ups.txt Clarify SNMP auth/priv proto support depends on Net-SNMP lib

2.1021 2021-12-08 Jim Klimov <jim@jimklimov.com>

- drivers/nut_libusb.h: sanity check that exactly one version of WITH_LIBUSB_x_y is set (defined and has value 1)
- drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/nut_libusb.h, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.h, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_usb.c, tools/nut-usbinfo.pl: Convert C code from "#ifdef WITH_LIBUSB_x_y" to "#if" tests for defined value
- drivers/nut_libusb.h: sanity check that exactly one version of WITH_LIBUSB_x_y is set (defined and has value 1)
- drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/nut_libusb.h, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.h, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_usb.c, tools/nut-usbinfo.pl: Convert C code from "#ifdef WITH_LIBUSB_x_y" to "#if" tests for defined value
- drivers/Makefile.am: define SHUT_MODE=1 (with a value) so #if is predictable
- m4/nut_check_libusb.m4: (hidden) debug before AC_DEFINE
- m4/nut_check_libusb.m4: always AC_DEFINE the WITH_LIBUSB_1_0 and WITH_LIBUSB_0_1 macros with a 0 or 1 value
- drivers/Makefile.am: define SHUT_MODE=1 (with a value) so #if is predictable
- m4/nut_check_libusb.m4: (hidden) debug before AC_DEFINE
- m4/nut_check_libusb.m4: always AC_DEFINE the WITH_LIBUSB_1_0 and WITH_LIBUSB_0_1 macros with a 0 or 1 value

2.1022 2021-12-07 Jim Klimov <jim@jimklimov.com>

- docs/configure.txt: configure.ac et al: drop the extra --with-libusb-version and handle its goals via --with-usb=VERSION
- configure.ac: drop duplicate NUT_CHECK_LIBNETSNMP
- configure.ac: regroup some NUT_ARG_WITH() closer to their NUT_CHECK_*() so help for detailed options is near
- m4/nut_check_libusb.m4: refactor shell if/case to m4 (tracking down missed parentheses)
- m4/nut_check_libusb.m4: port more function probes from libusb-1.0\+0.1 branch
- ci_build.sh, configure.ac, docs/configure.txt, m4/nut_check_libusb.m4: configure.ac et al: drop the extra --with-libusb-version and handle its goals via --with-usb=VERSION
- m4/nut_check_libusb.m4: port comments and m4 markup from libusb-1.0\+0.1 branch
- configure.ac, m4/nut_check_libusb.m4: configure.ac: move remaining libusb sanity checks into the m4/nut_check_libusb.m4 file
- configure.ac: drop duplicate NUT_CHECK_LIBNETSNMP
- configure.ac: regroup some NUT_ARG_WITH() closer to their NUT_CHECK_*() so help for detailed options is near
- drivers/libusb1.c: nut_libusb_open(): range-check and cast libusb_control_transfer() arg rdlen
- drivers/libusb1.c: nut_libusb_open(): range-check and cast libusb_control_transfer() arg rdlen
- Makefile.am: do not let (parallel) "make maintainer-clean" remove the files that cleanup recipe needs
- ci_build.sh: Revert "ci_build.sh: fix bogus expression for BUILDSTODO" This reverts commit e57eec425da5c2020656fd48ec3f8bb9b and adds comments and handling why that weird construct was not bogus ;)
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: reword notes for default QEMU container memory settings
- ci_build.sh: Add a shortcut hack to "./ci_build.sh spellcheck" easily
- common/Makefile.am: some "make" implems dislike DRY multi-entry definition of same target (common.c)

- ci_build.sh: Add a shortcut hack to "./ci_build.sh spellcheck" easily
- drivers/snmp-ups.c, tools/nut-scanner/scan_snmp.c: drivers/snmp-ups.c \+ tools/nut-scanner/scan_snmp.c: hide sanity checks before generate_Ku() into pragmas to not warn about type-limits ("comparison is always false due to limited range of data type" on some architectures)
- drivers/solis.c: make sure nut_stdint.h is included early and defines size_t

2.1023 2021-12-06 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c, tools/nut-scanner/scan_snmp.c: drivers/snmp-ups.c \+ tools/nut-scanner/scan_snmp.c: align (cast) arg type of generate_Ku() with net-snmp headers, and document the inconsistency of size_t vs u_int in the same API
- drivers/snmp-ups.c: align (cast) arg type of malloc()/realloc()
- drivers/snmp-ups.c: align (cast) arg type of snmp_errstring() vs response→errstat (int vs long), and document the inconsistency with net-snmp headers
- drivers/snmp-ups.c: upsdrv_makevartable(): fix maths with size_t vs int
- drivers/tripplite_usb.c: setvar(): cast placing of new_unit_id into wire protocol (FIXME? Does that code assume CPU endianness?)
- drivers/tripplite_usb.c: upsdrv_initinfo(): fix receiver of strtol()
- drivers/tripplite_usb.c: whitespace fixes
- drivers/tripplite_usb.c: setvar(): fix determination of outlet index number
- drivers/tripplite_usb.c: debug_message(): fix len from int to size_t
- drivers/tripplite_usb.c: soft_shutdown(): cast placing of offdelay into wire protocol (FIXME? Does that code assume CPU endianness?)
- drivers/tripplite_usb.c: fix reading and printing of offdelay (unsigned int in this driver)
- drivers/tripplite_usb.c: fix hex2d() to long as a consumer of strtol()
- drivers/tripplite_usb.c: fix toprint_str() length to size_t and toprint(x) to char
- drivers/netxml-ups.c: fix type of "ret" for ne_read_response_block() and ne_sock_read() to ssize_t (as in libneon headers)
- drivers/nutdrv_qx.c: fix qx_command() to return ssize_t like ser_send() at least
- drivers/nutdrv_qx.c: range-check and cast "u_langid_fix" in upsdrv_initups()
- drivers/nutdrv_qx.c: range-check and cast length of "cmdlen" in phoenixtec_command()
- drivers/nutdrv_qx.c: range-check and cast bytes in phoenixtec_command()
- drivers/nutdrv_qx.c: range-check and cast bytes in fuji_command()
- drivers/nutdrv_qx.c: range-check and cast bytes in repetitive "Simple unicode → ASCII inplace conversion"
- drivers/nutdrv_qx.c: range-check and cast int vs size_t in subdriver handlers (buflen, ret, i+\+)
- drivers/nutdrv_qx.c: initialize ret=0 before we potentially use it in loop i\+=ret (should not happen in current code, but. . .)
- drivers/nutdrv_qx.c: cast upsdebug_hex() logging with non-size_t args
- drivers/nutdrv_qx.c: range-check and cast receivers of strtol()
- drivers/nutdrv_qx.c, drivers/nutdrv_qx.h: drivers/nutdrv_qx.{c,h}: qx_process(), item_t.answer_len: fix lengths from int to size_t
- drivers/nutdrv_qx.c: qx_command(): indent ifdefs for TESTING/QX_USB/QX_SERIAL for easier navigation

- drivers/nutdrv_qx.c: qx_command() complains about unused parameters (not sure why); mark with NUT_UNUSED_VARIABLE just in case
- drivers/nutdrv_qx.c, drivers/nutdrv_qx.h: drivers/nutdrv_qx.{c,h}: fix STATUS() macro, qx_status(), status_lkp_t.status_mask field and ups_status var to all be "unsigned int"
- drivers/nutdrv_qx_voltronic.c: range-check and cast receivers of strtol(); wrap a few long lines
- drivers/nutdrv_qx_mecer.c: fix receivers of strtol()
- drivers/nutdrv_qx_masterguard.c: masterguard_test_battery(): fix receivers of strtol() - duration
- drivers/nutdrv_qx_masterguard.c: masterguard_shutdown(): fix receivers of strtol() - ondelay/offdelay
- drivers/nutdrv_qx_masterguard.c: masterguard_new_slaveaddr(): range-check and cast "masterguard_next_slaveaddr"
- drivers/nutdrv_qx_masterguard.c: fix receivers of strtol()
- drivers/nutdrv_qx_masterguard.c: masterguard_output_voltages(): fix type for sizeof() maths
- drivers/nutdrv_qx_masterguard.c: masterguard_model(): fix type of min_bp/max_bp
- drivers/huawei-ups2000.c: instcmd(): range-check and cast for ups2000_write_register() and handler_func()
- drivers/huawei-ups2000.c: ups2000_update_alarm(): range-check and cast all_alarms_len from snprintf() retval
- drivers/huawei-ups2000.c: ups2000_update_info(): pragma disable warnings for non-fixed format string
- drivers/huawei-ups2000.c: ups2000_update_info(): cast uint32_t for reg-idx
- drivers/huawei-ups2000.c: ups2000_read_serial(): range-check and cast ssize_t vs size_t increments
- drivers/huawei-ups2000.c: ups2000_update_info(): cast uint8_t calculations of reg_id parts
- drivers/huawei-ups2000.c: ups2000_device_identification(): cast uint32_t calculations of ups2000_ident
- drivers/huawei-ups2000.c: ups2000_device_identification(): range-check and cast crc16 calculations
- drivers/huawei-ups2000.c: ups2000_write_registers(), ups2000_read_registers(), ups2000_device_identification(): initialize variables that clang-9 is not sure about Seems like a clang analyzer bug frankly: code starts with a retrying loop that would initialize these variables. But still, adding determinism into code never hurts ;)
- drivers/huawei-ups2000.c: crc16(): fix casting to uint16_t when bit-shifting
- drivers/huawei-ups2000.c: ups2000_alarm[] sentinel: fix uint16_t reg from -1 to 0
- drivers/huawei-ups2000.c: ups2000_device_identification(): fix r from int to size_t, to match ser_send_buf()
- drivers/huawei-ups2000.c: fix ups2000_read_serial() from int to size_t, to match ser_get_buf()
- drivers/huawei-ups2000.c: mark local variables static

2.1024 2021-12-04 Jim Klimov <jim@jimklimov.com>

- m4/ax_c_pragmas.m4: add HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_PEDANTIC
- drivers/nutdrv_qx_blazer-common.c: fix and range-check receivers of strtol()
- drivers/nutdrv_qx_bestups.c: fix receivers of strtol()
- drivers/nutdrv_qx_voltronic-qs-hex.c: fix receivers of strtol()
- drivers/solis.c: fix packet_size from int to size_t
- drivers/apcsmart.c: bit-wise &= \~() insists it is for unsigned (int) types - vt→flags

- drivers/apcsmart.c: bit-wise &= \~() insists it is for unsigned (int) types - termios struct
- drivers/apcsmart.c: sdcmd_CS: fix cshd from int to useconds_t
- drivers/apcsmart.c: whitespace fix
- drivers/apcsmart.c: apc_getcaps(): fix i, nument, entlen from int to size_t
- drivers/apcsmart.c: cast prtchr() args from (unsigned char) to (char)
- drivers/apcsmart.c: fix receivers of strtol()
- drivers/apcsmart.c: cast apc_read*()/apc_write*() from ((const) char) to (const unsigned char)
- drivers/apcsmart.c: fix receivers of strlen() from int to ssize_t
- drivers/apcsmart.c, drivers/apcsmart.h: drivers/apcsmart.{c,h}: fix ups_status and APC_STAT_* from int to long (to match strtol() used)
- drivers/apcsmart.c: fix receivers of strlen() from int to ssize_t
- drivers/apcsmart.c: fix apc_read*()/apc_write*() from int to ssize_t to match select_read() et al
- drivers/apcsmart.c: include main.h ⇒ config.h first
- drivers/apcsmart.c: convert_data(): fix receivers of strtol()
- drivers/apcsmart-old.c, drivers/apcsmart-old.h: drivers/apcsmart-old.c: fix const/unsigned/char usages
- drivers/apcsmart-old.c: do_capabilities(): fix i, nument, entlen from int to size_t
- drivers/apcsmart-old.c, drivers/apcsmart-old.h: drivers/apcsmart-old.c: fix receivers of strtol()
- drivers/solis.h: fix packet_size from into to size_t
- drivers/apcsmart-old.c: fix handling of ser_*() retval from int to ssize_t
- drivers/clone.c: fix ondelay/offdelay handling from int to long (to match strtol() used)
- drivers/clone-outlet.c: fix handling of read()/write() retval from int to ssize_t
- drivers/clone.c: fix handling of read()/write() retval from int to ssize_t
- drivers/blazer.h, drivers/blazer_ser.c, drivers/blazer_usb.c: drivers/blazer.h \+ blazer_{ser,usb}.c: blazer_command(): fix handling of ser_get_buf() retval from int to ssize_t
- drivers/blazer.c: fix ondelay/offdelay handling from int to long (to match strtol() used)
- drivers/blazer.c: fix receivers of strtol() - delay tmp var
- drivers/powerp-txt.c: fix ondelay/offdelay handling from int to long (to match strtol() used)
- drivers/victronups.c: fix receivers of strtol()
- drivers/victronups.c: fix handling of ser_get_line() retval from int to ssize_t
- drivers/tripplite.c: fix receivers of strtol() ⇒ hex2d()
- drivers/tripplite.c: fix handling of ser_get_char() retval from int to ssize_t
- drivers/solis.c, drivers/solis.h: drivers/solis.{c,h}: fix comm_receive() from int to size_t, and match ser_get_buf_len() len-or-error returns
- drivers/solis.c, drivers/solis.h: drivers/solis.{c,h}: fix byte-sized maths of str2bin() and day counts to uint8_t
- drivers/solis.c: include main.h ⇒ config.h first

- drivers/solis.c, drivers/solis.h: drivers/solis.c: save_ups_config(): fix casting of ConfigPack[] entries to (unsigned char) from original types
- drivers/nutdrv_siemens_sitop.c: fix handling of ser_get_line() retval from int to ssize_t
- drivers/safenet.c: fix ondelay/offdelay handling from int to long (to match strtol() used)
- drivers/safenet.c: fix array loop iterator from int to size_t
- drivers/safenet.c: fix handling of ser_get_line() retval from int to ssize_t
- drivers/rhino.c: fix handling of ser_get_line() retval from int to ssize_t
- drivers/powercom.h: fix whitespace (indentations)
- drivers/powercom.c: fix array loop iterator from int to size_t
- drivers/powercom.c: fix handling of ser_get_line() retval from int to ssize_t
- drivers/optiups.c: a few whitespace nits
- drivers/optiups.c: fix OPTISBIT_* handling from int to long (to match strtol() used)
- drivers/optiups.c: fix optifill() len from int to size_t
- drivers/optiups.c: fix handling of ser_get_line() retval from int to ssize_t
- drivers/oneac.c: fix handling of ser_get_line() retval from int to ssize_t
- scripts/subdriver/gen-usbhid-subdriver.sh: update generated C heading comment with "TODO" and update generated code whitespace markup
- drivers/arduino-hid.c, drivers/salicru-hid.c: drivers/usb-common.{c,h} drivers/*{usb,hid}.c: fix type of usb_device_id_t vendorID/productID to uint16_t Catch up to earlier change for recently merged USB HID drivers; specifically * *{usb,hid}.c: sentinel in a table of uint16_t can not be -1 for: * drivers/salicru-hid.c * drivers/arduino-hid.c * scripts/subdriver/gen-usbhid-subdriver.sh creating the boilerplates

2.1025 2021-12-03 Jim Klimov <jim@jimklimov.com>

- drivers/microsol-common.c: fix setup_poweroff_schedule() vars from int to bool_t to match set_schedule_time()
- drivers/microsol-common.c: fix get_base_info(), get_updated_info() buf sizes from unsigned int to ssize_t (to match ser_get_buf_len() len-or-error returns)
- drivers/microsol-common.c: fix comm_receive() from int to size_t
- drivers/microsol-common.c: save_ups_config(): fix casting of configuration_packet[] entries to (unsigned char) from original types
- drivers/microsol-common.c: fix byte-sized maths of bitstring_to_binary() and day counts to uint8_t
- drivers/microsol-common.c: fix (and range-check) casting for memcpy
- drivers/microsol-common.c: wrap some long comments
- drivers/microsol-common.c: include main.h ⇒ config.h first
- common/Makefile.am: limit the use of common.c symlinking from srcdir to builddir only to cases when not BUILDING_IN_TREE
- tools/nut-scanner/nutscan-init.c: comment that semaphore gets re-initialized by nut-scanner.c program and why
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nutscan-init.c: tools/nut-scanner/nutscan-init.c \+ nut-scan.h: hide "semaphore" library variable
- tools/nut-scanner/nut-scanner.c: #include "config.h" first

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/*.c: fix use of size_t max_threads(_scantype) vs (unsigned int) in sem_init() args
- tools/nut-scanner/nut-scan.h: fix declaration of nutscan_semaphore(void)
- drivers/snmp-ups.c, m4/nut_check_libnetsnmp.m4, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_snmp.c: nut_check_libnet nut-scanner.c, scan_snmp.c, snmp-ups.c: transition from NETSNMP_DRAFT_BLUMENTHAL_AES_04 (that may be not-defined so #if is invalid) to NUT_HAVE_LIBNETSNMP_DRAFT_BLUMENTHAL_AES_04
- ci_build.sh: in default-all-errors mode, avoid last-loop cleanup if DO_CLEAN_CHECK==no
- ci_build.sh: fix bogus expression for BUILDSTODO
- ci_build.sh: only score *_clean_check as SUCCEEDED if they were not skipped, and report a bit more

2.1026 2021-11-30 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: load_mib2nut(): import tracing messages and points from 42ITy/DMF fork
- drivers/snmp-ups.c: load_mib2nut(): clarify the "trying the new match_sysoid() method" message
- drivers/snmp-ups.c: load_mib2nut(): fix upsdebugx() levels verbosity to make more sense
- drivers/snmp-ups.c: load_mib2nut(): reformat some debugs, use *func*
- drivers/snmp-ups.c: load_mib2nut(): report device name (section) and host/IP in progress and errors

2.1027 2021-11-28 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_libpowerman.m4: if (lib)powerman.pc is missing, but header is present, check -lpowerman directly
- m4/nut_check_libpowerman.m4: they deliver an empty version string, so we should not error out on that

2.1028 2021-11-27 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_libusb.m4: if libusb-config and libusb.pc are missing, but header is present, check -lusb directly
- m4/nut_check_libnetsnmp.m4: detect NET_SNMP_CONFIG with AC_PATH_PROGS and/or configure option (and handle if it is missing)
- docs/configure.txt: document --with-net-snmp-config configure option better
- docs/configure.txt: rephrase comments about --with-**-libs and --with-**-include
- docs/configure.txt, m4/nut_check_pkgconfig.m4: m4/nut_check_pkgconfig.m4 \+ docs/configure.txt: detect (dummy_)PKG_CONFIG with AC_PATH_PROGS and/or configure option (and handle if it is missing)
- m4/nut_check_libgd.m4: initialize empty CFLAGS LIBS LDFLAGS
- m4/nut_check_libgd.m4: detect GDLIB_CONFIG with AC_PATH_PROGS and/or configure option (and handle if it is missing)
- docs/configure.txt, m4/nut_check_libusb.m4: m4/nut_check_libusb.m4 \+ docs/configure.txt: detect LIBUSB_CONFIG with AC_PATH_PROGS and/or configure option (and handle if it is missing)
- m4/nut_check_libpowerman.m4: consider have_PKG_CONFIG
- m4/nut_check_libwrap.m4: *.m4: AC_LANG_PUSH before AC_LINK_IFELSE and similar tests

2.1029 2021-11-27 Jim Klimov <jim@jimklimov.com>

- m4/ax_c_*attribute*.m4, m4/nut_check_headers_windows.m4, m4/nut_check_libnetsnmp.m4, m4/nut_func_getnameinfo_argtypes.m4 m4/nut_type_socklen_t.m4: *.m4: AC_LANG_PUSH before AC_COMPILE_IFELSE and similar tests
- Jenkinsfile-dynamatrix: try to report toStringStageCountDump() in ircNotify()
- configure.ac: AC_LANG_PUSH before AC_COMPILE_IFELSE and similar tests
- clients/upsclient.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, clients/upssched.c, clients/upsset.c, common/state.c, common/upsconf.c, docs/developers.txt, docs/nut.dict, drivers/apcsmart-old.c, drivers/apcsmart.c, drivers/apcupsd-ups.c, drivers/belkin.c, drivers/belkinunv.c, drivers/bestups.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/gamatronic.c, drivers/huawei-ups2000.c, drivers/main.c, drivers/masterguard.c, drivers/mge-utalk.c, drivers/mge-xml.c, drivers/nutdrv_qx.c, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_voltronic-qs-hex.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_voltronic.c, drivers/oneac.c, drivers/powercom.c, drivers/powerman-pdu.c, drivers/powerp-txt.c, drivers/snmp-ups.c, drivers/tripplite_usb.c, drivers/upscode2.c, drivers/victronups.c, server/conf.c, server/netget.c, server/netlist.c, server/netset.c, server/user.c, tests/cpputest.cpp, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_snmp.c: Replace strcmp() and strcasecmp() use-cases for short fixed string args by strncmp() and strncasecmp() respectively Some compilers on some OSes complain due to implem nuances. Updated docs/developers.txt to make note for posterity.
- drivers/microdowell.c: some more pragmatic ignorance for CLAMP() macro uses (older clang-3.4 et al)

2.1030 2021-11-26 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/scan_xml_http.c: fix dummy nutscan_scan_xml_http_range() (WITHOUT_NEON) arg type for useconds_t usec_timeout
- drivers/libhid.c: fix debug-printing of byte-counts as size_t
- drivers/microdowell.c: some more pragmatic ignorance for CLAMP() macro uses
- tools/nut-scanner/scan_nut.c: whitespace fix
- tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http. tools/nut-scanner/scan_*.c: fix debug-printing of thread accounting as size_t

2.1031 2021-11-25 xbgmsharp <xbgmsharp@gmail.com>

- drivers/salicru-hid.c: Rename unmapped.* to experimental.* data points Add untested instant commands

2.1032 2021-11-25 Jim Klimov <jimklimov@gmail.com>

- docs/FAQ.txt: Update FAQ.txt Update rationale (reasonable use-cases) for "clone" driver

2.1033 2021-11-25 Jim Klimov <jimklimov+nut@gmail.com>

- common/Makefile.am, configure.ac: configure.ac \+ common/Makefile.am: detect if building in-tree and differentiate the recipe involving common.c based on that
- common/Makefile.am: let OpenBSD 6.4 make cope with common.c recipe
- docs/config-prereqs.txt: add libusb1 for OpenBSD
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: concerns about OpenBSD 6.4 freeipmi vs. "-largp"

2.1034 2021-11-25 Jim Klimov <jim@jimklimov.com>

- configure.ac: typo fix for ABS_TOP_* determination
- NEWS, docs/nut.dict: NEWS: added new salicru-hid subdriver in usbhid-ups for NUT v2.7.5

2.1035 2021-11-25 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/powerware-mib.c: Eaton SNMP: also publish ups.load for 3phase Though there is output.Lx.power.percent, for 3phase, it's desirable to also have the standard ups.load

2.1036 2021-11-24 xbgmsharp <xbgmsharp@gmail.com>

- drivers/salicru-hid.c: Update mapping

2.1037 2021-11-23 Jim Klimov <jim@jimklimov.com>

- docs/FAQ.txt: extend Q&A on "NUT proxying" with mention of "clone" driver

2.1038 2021-11-22 xbgmsharp <xbgmsharp@gmail.com>

- data/driver.list.in, drivers/Makefile.am, drivers/salicru-hid.c, drivers/salicru-hid.h, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.rules: Initial release for Salicru driver
- data/driver.list.in, drivers/Makefile.am, drivers/salicru-hid.c, drivers/salicru-hid.h, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.rules: Initial release for Salicru driver

2.1039 2021-11-22 Yifeng Li <tomli@tomli.me>

- drivers/huawei-ups2000.c: huawei-ups2000.c: rework logic for "load.on". Currently the driver prevents the user from executing "load.on" when the UPS is already on, and reports a STAT_INSTCMD_FAILED with error logs. We need to do this if the UPS is in bypass mode, because the UPS would otherwise enter normal mode - "load.on" is not supposed to do that. On the other hand, executing "load.on" when the UPS is already in "normal-mode on" has no effect, it's still a legal command and should not be rejected arbitrarily, which can potentially confuse downstream applications and users. It also contains two misleading typos in the error logs: (1) it incorrectly suggests "bypass.off" instead of "bypass.stop", and (2) reports "failed: reason unknown." when the reason is simply an already-on UPS. This commit allows "load.on" to execute when it's in normal mode and already on, and changes the log messages from errors to warnings. Typos in the log messages are also fixed. The "load.on" command is only rejected in bypass mode, with error logs. Finally, the logic for the off test is reworked to improve readability. The original code checks whether the UPS is on by testing the negative "not OFF" condition, which is not easy to understand - the reader must have intimate knowledge on the code to know its correctness. Namely, When the UPS power status is updated, 1 of the 5 mutually exclusive flags, OL, OB, OL ECO, BYPASS, or OFF is always set, thus the absence of the OFF flag always reliably indicates an ON status. This commits converts the single negative "not OFF" test to three positive tests for "OL", "OB" and "OFF", with additional comments added on reachable and unreachable conditions. Thus, previous uncertainty is eliminated.
- docs/nut.dict: add model name "KRTS".
- docs/man/huawei-ups2000.txt: huawei-ups2000.txt: update tested models and user report suggestions.
- docs/man/huawei-ups2000.txt: huawei-ups2000.txt: minor typo fixes

2.1040 2021-11-22 Jim Klimov <jimklimov@gmail.com>

- docs/FAQ.txt: Update docs/FAQ.txt Add example of dummy-ups (relay mode) configuration section Co-authored-by: Helmut K. C. Tessarek <tessarek@evermeet.cx>

2.1041 2021-11-22 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.h: update mask for SU_TYPE_DAISY() and comments for it and SU_DAISY
- docs/FAQ.txt: update for interactions via github (issues, PRs, . . .)
- docs/FAQ.txt: update for use-cases of dummy-ups in relay mode

2.1042 2021-11-22 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/mge-xml.c: Eaton XML/PDC: add External Battery Module count
- drivers/mge-xml.c: Eaton XML/PDC: add External Battery Module count

2.1043 2021-11-20 Jim Klimov <jimklimov+nut@gmail.com>

- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: add a chapter on OpenBSD build agent setup
- configure.ac: require at least autoconf-2.61 (macros are used that are missing in 2.60 and before)
- autogen.sh: comment that libtool is also needed
- autogen.sh: comment about envs that want AUTOCONF_VERSION or AUTOMAKE_VERSION
- autogen.sh, configure.ac, scripts/augeas/.gitignore, scripts/devd/Makefile.am, scripts/udev/.gitignore, scripts/udev/Makefile.am: autogen.sh \+ configure.ac: try to support building on systems without Python or Perl

2.1044 2021-11-20 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: Make end of log useful for spellcheck failure handling

2.1045 2021-11-18 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c, drivers/snmp-ups.h: drivers/snmp-ups.{c,h}: typedef snmp_info_t::flags and define its PRI_SU_FLAGS format to ease type changes later Also adds a "default:" to case for template flag handling (from FTY fork)

2.1046 2021-11-17 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: su_find_strval(): mark NUT_UNUSED_VARIABLE(oid2info) when not WITH_SNMP_LKP_FUN
- drivers/eaton-pdu-marlin-helpers.c: include config.h first

2.1047 2021-11-16 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups-helpers.c: reshuffle includes
- drivers/snmp-ups.c: include main.h ⇒ common.h ⇒ config.h first
- drivers/snmp-ups.c: fix strncmp() limits for "v1" and "v3" checks (copy-pasting typo)
- drivers/snmp-ups.c: mention in help that SNMP version may be "v3"
- drivers/libusb1.c: fix devcount and devnum from ssize_t to size_t

2.1048 2021-11-15 Jim Klimov <jim@jimklimov.com>

- m4/nut_check_libusb.m4: Move "additional USB-related checks" from configure.ac to m4/nut_check_libusb.m4
- drivers/nutdrv_qx_masterguard.c: printf() assumes floating-point numbers are doubles, satisfy its warnings
- drivers/libusb1.c: drop extra "int i" definition
- ci_build.sh: NUT_USB_VARIANT=<value> ⇒ --with-usb=libusb<value> [libusb-1.0\+0.1 branch]
- ci_build.sh: NUT_USB_VARIANT=no ⇒ --without-usb explicitly
- ci_build.sh: default-all-errors: report BUILDSTODO_INITIAL at the end of log, and if non-zero BUILDSTODO remained unaccounted
- ci_build.sh: report which SSL/USB variants will be looped
- drivers/phoenixcontact_modbus.c: use a longer global var name for modbus_ctx (nee ctx)
- drivers/bcmxcp_ser.c, drivers/bcmxcp_ser.h, tools/nut-scanner/scan_eaton_serial.c: drivers/bcmxcp_ser.{c,h} \+ tools/nut-scanner/sca use longer global var name (AUT ⇒ BCMXCP_AUTHCMD)
- drivers/bestfortress.c: comment an analyzer-check complaint
- drivers/bcmxcp_usb.c: avoid useless comparison (warning)
- drivers/nutdrv_qx.c: only define "Compatibility layer between libusb 0.1 and 1.0" if we build with QX_USB at all (no required headers are in context otherwise)
- ci_build.sh: BUILD_TYPE="default-all-errors": ensure BUILDSTODO counts for SSL\+USB are planned same as executed - and handle explicit NUT_USB_VARIANTS=no
- ci_build.sh: BUILD_TYPE="default-all-errors": ensure BUILDSTODO counts for SSL\+USB are planned same as executed
- ci_build.sh: BUILD_TYPE="default-all-errors": ensure BUILDSTODO counts are decremented when configuration failed
- ci_build.sh: BUILD_TYPE="default-all-errors": between configure and build, report the Configured NUT_USB_VARIANT
- ci_build.sh: BUILD_TYPE="default-all-errors": between configure and build, report the Configured NUT_SSL_VARIANT
- ci_build.sh: BUILD_TYPE="default-all-errors": support looping over NUT_USB_VARIANTS as well
- drivers/libhid.c: HIDDumpTree(): mark that arg "hd" is not used in SHUT_MODE
- m4/nut_check_libusb.m4: the "additional USB-related checks" should now manipulate "LIBS" not "LIBUSB_LIBS"
- m4/nut_check_libusb.m4: comment on "additional USB-related checks"
- m4/nut_check_libusb.m4: Move "additional USB-related checks" from configure.ac to m4/nut_check_libusb.m4
- drivers/nutdrv_qx.c: [libusb-1.0] Realign buffer casting to (usb_ctrl_char) after merge from master
- tools/nut-scanner/scan_usb.c: fix merge conflict [libusb-1.0\+0.1]
- m4/nut_check_libusb.m4: complete the merge from master to libusb-1.0\+0.1
- ci_build.sh: NUT_USB_VARIANT=no ⇒ --without-usb explicitly
- drivers/bcmxcp_usb.c: fix definition of curDevice (libusb-1.0)
- ci_build.sh: default-all-errors: report BUILDSTODO_INITIAL at the end of log, and if non-zero BUILDSTODO remained unaccounted
- ci_build.sh: default-all-errors: report BUILDSTODO_INITIAL at the end of log, and if non-zero BUILDSTODO remained unaccounted
- ci_build.sh: report which SSL/USB variants will be looped

- ci_build.sh: BUILD_TYPE="default-all-errors": between configure and build, report the Configured NUT_SSL_VARIANT
- ci_build.sh: BUILD_TYPE="default-all-errors": ensure BUILDSTODO counts are decremented when configuration failed
- drivers/bcmxcp_usb.c: avoid useless comparison (warning)
- drivers/bestfortress.c: comment an analyzer-check complaint
- drivers/bcmxcp_ser.c, drivers/bcmxcp_ser.h, tools/nut-scanner/scan_eaton_serial.c: drivers/bcmxcp_ser.{c,h} \+ tools/nut-scanner/sca use longer global var name (AUT ⇒ BCMXCP_AUTHCMD)
- drivers/phoenixcontact_modbus.c: use a longer global var name for modbus_ctx (nee ctx)
- drivers/phoenixcontact_modbus.c: use a longer global var name for modbus_ctx (nee ctx)
- drivers/bcmxcp_ser.c, drivers/bcmxcp_ser.h, tools/nut-scanner/scan_eaton_serial.c: drivers/bcmxcp_ser.{c,h} \+ tools/nut-scanner/sca use longer global var name (AUT ⇒ BCMXCP_AUTHCMD)
- drivers/bestfortress.c: comment an analyzer-check complaint
- drivers/bcmxcp_usb.c: avoid useless comparison (warning)
- drivers/nutdrv_qx.c: only define "Compatibility layer between libusb 0.1 and 1.0" if we build with QX_USB at all (no required headers are in context otherwise)
- configure.ac: neuter "nut_usb_lib" if building --without-usb
- ci_build.sh: BUILD_TYPE="default-all-errors": ensure BUILDSTODO counts for SSL\+USB are planned same as executed - and handle explicit NUT_USB_VARIANTS=no
- ci_build.sh: BUILD_TYPE="default-all-errors": ensure BUILDSTODO counts for SSL\+USB are planned same as executed
- ci_build.sh: BUILD_TYPE="default-all-errors": ensure BUILDSTODO counts are decremented when configuration failed
- ci_build.sh: BUILD_TYPE="default-all-errors": between configure and build, report the Configured NUT_USB_VARIANT
- ci_build.sh: BUILD_TYPE="default-all-errors": between configure and build, report the Configured NUT_SSL_VARIANT
- ci_build.sh: BUILD_TYPE="default-all-errors": support looping over NUT_USB_VARIANTS as well
- m4/nut_check_libusb.m4: report a NOTICE if libusb-1.0 support was detected, but another was chosen
- drivers/libhid.c: HIDDumpTree(): mark that arg "hd" is not used in SHUT_MODE
- m4/nut_check_libusb.m4: the "additional USB-related checks" should now manipulate "LIBS" not "LIBUSB_LIBS"
- m4/nut_check_libusb.m4: comment on "additional USB-related checks"
- configure.ac, m4/nut_check_libusb.m4: Move "additional USB-related checks" from configure.ac to m4/nut_check_libusb.m4
- configure.ac, docs/configure.txt, m4/nut_check_libusb.m4: m4/nut_check_libusb.m4 et al: add support for --with-libusb-version=(auto|0.1\|1.0)
- drivers/bcmxcp_usb.c: restore "ret" lost in merging
- drivers/riello_usb.c: properly export variables shared between driver subtypes (reapply to libusb-1.0 branch)
- drivers/nutdrv_qx.c: add a bit more of "Compatibility layer between libusb 0.1 and 1.0"
- drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c: [libusb-1.0] Realign use of nut_usb_strerror() after merge from master
- drivers/libusb1.c, drivers/nutdrv_qx.c: [libusb-1.0] Realign buffer casting to (usb_ctrl_char) after merge from master

2.1049 2021-11-15 François-Régis Degott <francoisregisdegott@eaton.com>

- drivers/eaton-ats16-nm2-mib.c: eaton-ats16-nm2-mib.c: fix mul coef. for ambient.temperature and humidity (#1173) * eaton-ats16-nm2-mib.c: fix mul coef. for ambient.temperature and ambient.humidity * Update eaton-ats16-nm2-mib.c Co-authored-by: Arnaud Quette <arnaud.quette@gmail.com>

2.1050 2021-11-15 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/eaton-ats16-nm2-mib.c: Eaton: add support for EMP002 on ATS16 NM2 with SNMP This support is identical to what is in Eaton Marlin and Powerware MIBs. Future improvements should consider putting these bits in a common eaton-sensor-mib file, to avoid multiple definition of the same MIB structure! Imported from DMF branch (with reductions for main trunk) from commit 40c883f42aede519fe716a6d26e7dff567996d75
- drivers/eaton-pdu-marlin-mib.c, drivers/powerware-mib.c: Fix regression on Eaton EMP002 temperature reading (SNMP) Following the recent addition of the "String reformating function" (su_find_strval()), a regression appeared on a corner case: when flagging a data with ST_FLAG_STRING, while the SNMP OID is an int, and when there is a fun_vp2s() conversion function, a double conversion is applied, resulting in no value published. This was limited to one data (temperature.unit)

2.1051 2021-11-13 Jim Klimov <jimklimov+nut@gmail.com>

- into pragmas
- m4/ax_c_pragmas.m4: detect general "-Warray-bounds" support
- m4/ax_c_pragmas.m4: detect general "-Wtautological-compare"
- m4/ax_c_pragmas.m4: detect "pragma clang diagnostic push/pop" support (needed with older clang versions not on par with GCC)
- drivers/snmp-ups-helpers.c: include "config.h" before any system headers (such as time.h indirectly)
- configure.ac: be sure to detect "time.h"
- ci_build.sh: support a common DO_CLEAN_CHECK=no

2.1052 2021-11-13 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: report if an snmp_info[] entry flag was not defined (is 0)
- drivers/snmp-ups.h: redefine bit-flags macros so they do not overlap (and some helper-masking macros) [follow up on issue from PR #1177]
- drivers/snmp-ups-helpers.c: include a header, avoid a warning
- UPGRADING, docs/nut.dict: NEWS: updated build against various generations of Net-SNMP for NUT v2.7.5
- docs/configure.txt, m4/nut_check_libnetsnmp.m4: m4/nut_check_libnetsnmp.m4: allow --with-netsnmp-config(=yes) to mean prefer_NET_SNMP_CONFIG=true
- NEWS: updated build against various generations of FreeIPMI for NUT v2.7.5
- drivers/snmp-ups.c: replace strcmp("short string") with strncmp() (clang-3.4 warns about array out of bounds)
- drivers/bcmxcp_ser.c: resolve a "tautological compare" when building on older agents
- drivers/nut-ipmi.h, drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c: drivers/nut-libfreeipmi.c nut-ipmipsu.c nut-ipmi.h: adjust input_voltage_range_t (args of ipmi_fru_multirecord_power_supply_information() vs. ipmi_fru_parse_multirecord_power_supply_in in different FreeIPMI releases) [issue #1175]
- drivers/Makefile.am: disable quick-hack of nut_ipmipsu_CFLAGS\+="-Wno-pointer-sign" [issue #1175]

- m4/nut_check_libusb.m4: consider have_PKG_CONFIG
- m4/nut_check_libopenssl.m4: consider have_PKG_CONFIG
- m4/nut_check_libnss.m4: consider have_PKG_CONFIG
- m4/nut_check_libnetsnmp.m4: consider have_PKG_CONFIG
- m4/nut_check_libneon.m4: consider have_PKG_CONFIG
- m4/nut_check_libmodbus.m4: consider have_PKG_CONFIG
- m4/nut_check_libgd.m4: consider have_PKG_CONFIG
- m4/nut_check_libfreeipmi.m4: consider have_PKG_CONFIG
- m4/nut_check_libavahi.m4: consider have_PKG_CONFIG
- m4/nut_check_pkgconfig.m4: separate detection of support for have_PKG_CONFIG vs have_PKG_CONFIG_MACROS
- configure.ac: call PKG_CONFIG for systemd settings query only if we have_PKG_CONFIG, and die if "yes" was required but query is not possible
- m4/nut_check_pkgconfig.m4: extend to consider PKG_CONFIG possibly detected by autoconf
- configure.ac, m4/nut_check_pkgconfig.m4: configure.ac: evict NUT_CHECK_PKGCONFIG into m4/nut_check_pkgconfig.m4
- clients/upsmon.c, drivers/mge-utalk.c, drivers/snmp-ups.c, tools/nut-scanner/scan_snmp.c: clients/upsmon.c tools/nut-scanner/scan_s drivers/snmp-ups.c mge-utalk.c: avoid strcmp("") as the implementation may be invalid (reaches out of one-element array for "")
- m4/nut_check_libnetsnmp.m4: whitespace fix (indent if-clause content)
- ci_build.sh: update guessing SYS_PKG_CONFIG_PATH for **openindiana|omnios|solaris|illumos\|sunos**
- ci_build.sh: for optional_maintainer_clean_check(), ignore ".ci*.log*" files if present

2.1053 2021-11-13 Dan Benton <dan@dogsbody.com>

- data/driver.list.in: Add CyberPower RMCARD205 which is supported

2.1054 2021-11-12 Jim Klimov <jim@jimklimov.com>

- m4/nut_check_libnetsnmp.m4: support (and prefer) pkg-config info to net-snmp-config script(s)
- Jenkinsfile-dynamatrix: separate "distcheck-valgrind" from "default-nodoc", to filter away "NUT_BUILD_CAPS=valgrind=no" agents
- ci_build.sh: report which PWD failed a "git status" query
- ci_build.sh: report if ".git" disappeared during *clean check [issue #1167]

2.1055 2021-11-11 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: avoid stringop-truncation warning
- drivers/snmp-ups.h: fix remaining SU_* flag bits to (unsigned long), to match snmp_info_t→flags type
- drivers/snmp-ups.h: comment SU_* bit usage by bit-shifting macros
- drivers/snmp-ups.h: wrap long comments, and detail where flag-field bits come from
- drivers/snmp-ups.h: comment typical use of SU_TYPE(t) macro
- drivers/snmp-ups.h: fix SU_TYPE_DAISY(t) macro (had no arg)
- drivers/snmp-ups.h: whitespace fixes
- drivers/snmp-ups.h: comment SU_STATUS_NUM_ELEM as possibly obsolete
- tools/nut-scanner/Makefile.am: rearrange lines to better match with 42ITy fork
- NEWS, docs/nut.dict: NEWS: improved SNMPv3 Auth/Priv algo support, and nut-scanner threadcount, for NUT v2.7.5

2.1056 2021-11-10 Jim Klimov <jim@jimklimov.com>

- drivers/Makefile.am: hotfix header (in)compatibility of different IPMI versions
- drivers/Makefile.am: hotfix header (in)compatibility of different IPMI versions
- drivers/Makefile.am: hotfix header (in)compatibility of different IPMI versions
- drivers/nutdrv_qx.c: hunnox_step is only used qith QX_USB
- drivers/bcmxcp_usb.c, drivers/libusb.h, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c, drivers/tripplite_usb.c: drivers/**usb**: align whitespace changes with libusb-1.0 branch
- drivers/Makefile.am: use LIBUSB_IMPL macro to align with libusb-1.0 branch
- drivers/libusb.c: whitespace fixes and message fixes to align with libusb-1.0 branch
- drivers/libusb.c, drivers/libusb.h, drivers/powervar-hid.c, drivers/usbhid-ups.c: drivers/libusb.{c,h} \+ powervar-hid.c usbhid-ups.c: whitespace fixes after PR #1044
- docs/config-prereqs.txt: mention further I2C-related packages in Debian/Ubuntu distros
- ci_build.sh: in "default-all-errors" mode, report the start of build variant and how many remain
- Makefile.am, clients/Makefile.am, common/Makefile.am, conf/Makefile.am, data/Makefile.am, data/html/Makefile.am, docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, drivers/Makefile.am, include/Makefile.am, lib/Makefile.am, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/augeas/Makefile.am, scripts/devd/Makefile.am, scripts/hotplug/Makefile.am, scripts/python/Makefile.am, scripts/systemd/Makefile.am, scripts/udev/Makefile.am, scripts/ufw/Makefile.am, scripts/upsdrvsvcctl/Makefile.am, server/Makefile.am, tests/Makefile.am, tools/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am: ensure that `make maintainer-clean` also removes .dirstamp files
- .gitignore: remove a redundancy
- ci_build.sh: in "default-all-errors" mode, ignore strange exit-code from `expr` - if the maths result was "0"
- ci_build.sh: in "default-all-errors" mode, ignore strange exit-code from `expr`
- ci_build.sh: in "default-all-errors" mode, do not distclean before build (this just spends time to generate the Makefile to kill it)
- ci_build.sh: in "default-all-errors" mode, report "SUCCEEDED build(s)" after final optional_maintainer_clean_check() if that is called
- ci_build.sh: dumb down can_clean_check() to pass "set -e" shells

- ci_build.sh: optional_*_clean_check() quickly skip if there is no Makefile
- ci_build.sh: in "default-all-errors" mode, count expected/remaining BUILDSTODO and call optional_maintainer_clean_check() for the last iteration and optional_dist_clean_check() for others
- ci_build.sh: introduce can_clean_check() to not fail when we have nothing to test against

2.1057 2021-11-09 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am: first-shot "git-realclean-check" and targets to print *CLEANFILES lists
- ci_build.sh: introduce optional_dist_clean_check() to use e.g. in "default-all-errors" case
- ci_build.sh: in loop for "default-all-errors", report "build" successes as such
- ci_build.sh: skip optional_maintainer_clean_check() if there is no .git [issue #1167]
- configure.ac: limit the impact of linux_i2c absent libs when "auto" mode was requested
- ci_build.sh: start default build from a clean slate, and do not REQUIRE to be able to build everything (do auto-detect)
- tools/nut-scanner/Makefile.am, tests/Makefile.am: do not refer to LINKED_SOURCE_FILES with extra paths

2.1058 2021-11-09 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: consider SNMPv3 Auth/Priv algos detected by configure script when reporting the usage (via addvar() help messages) [issue #1169]
- tools/nut-scanner/nut-scanner.c: consider SNMPv3 Auth/Priv algos detected by configure script when reporting the usage [issue #1169]
- tools/nut-scanner/scan_ipmi.c: comment the comment
- tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/scan_xml_http.c \+ scan_snmp.c + scan_nut.c: ifdef the references to max_threads_scantype
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: note about PTY definitions
- docs/config-prereqs.txt: say a bit more about OSes with containers
- docs/config-prereqs.txt: say a bit more about "General call to Test" and mention "ci_build.sh"
- docs/config-prereqs.txt, docs/nut.dict: docs/config-prereqs.txt: revise pkgs available in Debian-like operating systems

2.1059 2021-11-08 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: for CppUnit, also sanity-check CPPUNIT_ASSERT_MESSAGE()

2.1060 2021-11-08 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: use detected NUT_HAVE_LIBNETSNMP_usm* support to define and use actual Priv or Auth types
- tools/nut-scanner/scan_snmp.c: use detected NUT_HAVE_LIBNETSNMP_usm* support to define and use actual Priv or Auth types
- m4/nut_check_libnetsnmp.m4: detect support of usmAES128PrivProtocol in Net-SNMP we build against
- m4/nut_check_libnetsnmp.m4: detect support of (NETSNMP_DRAFT_BLUMENTHAL_AES_04) usmAES192PrivProtocol usmAES256PrivProtocol in Net-SNMP we build against

- m4/nut_check_libnetsnmp.m4: detect support of usmDESPrivProtocol usmHMACMD5AuthProtocol usmHMACSHA1AuthProtocol in Net-SNMP we build against
- m4/nut_check_libnetsnmp.m4: detect support of usmHMAC256SHA384AuthProtocol usmHMAC384SHA512AuthProtocol usmHMAC192SHA256AuthProtocol in Net-SNMP we build against
- tools/nut-scanner/scan_snmp.c: ifdef all references to NETSNMP_DRAFT_BLUMENTHAL_AES_04 related code
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c: tools/nut-scanner/... : move init/destroy of threadcount_mutex from nut-scanner.c to nutscan-init.c
- tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http. tools/nut-scanner/scan_eaton_serial.c \+ scan_nut.c + scan_snmp.c
  scan_xml_http.c: release global semaphores in final protocol-scanner tread reaping
- tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http. tools/nut-scanner/scan_eaton_serial.c \+ scan_nut.c + scan_snmp.c
  scan_xml_http.c: report if we are waiting for semaphored threads to complete
- drivers/mge-hid.c: actively check and warn if we truncated the string
- drivers/gamatronic.c: actively check and warn if we truncated the string
- docs/nut.dict: update for recent NEWS
- drivers/nutdrv_qx_masterguard.c: safely limit a strncpy() call
- drivers/oneac.c: shield a potentially truncating snprintf() into a small buffer
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRINGOP_TRUNCATION
- drivers/mge-hid.c: shield a potentially truncating snprintf() into a small buffer

2.1061 2021-11-07 Jim Klimov <jimklimov@gmail.com>

- drivers/snmp-ups.c: Update snmp-ups.c Fix use of `char su_scratch_buf[255]` (original static array moved to another file in master branch), and bump `DRIVER_VERSION`
- drivers/snmp-ups.c: Update snmp-ups.c Use the common (and sufficiently large for any runaway numeric madness) `su_scratch_bu` instead of a local `char[6]` buffer.
- drivers/snmp-ups.c: Update snmp-ups.c A few small whitespace fixes
- docs/man/huawei-ups2000.txt: Update huawei-ups2000.txt Made the `configure` example a bit friendlier for copy-pasting.

2.1062 2021-11-07 Jim Klimov <jimklimov+nut@gmail.com>

- clients/Makefile.am: depend on "dummy" recipe to re-evaluate out-of-dir libs (so development iterations in them are reflected in rebuilds)
- drivers/Makefile.am: depend on "dummy" recipe to re-evaluate out-of-dir libs (so development iterations in them are reflected in rebuilds)
- server/Makefile.am: depend on "dummy" recipe to re-evaluate out-of-dir libs (so development iterations in them are reflected in rebuilds)
- tools/nut-scanner/Makefile.am: depend on "dummy" recipe to re-evaluate out-of-dir libs (so development iterations in them are reflected in rebuilds)
- tests/Makefile.am: depend on "dummy" recipe to re-evaluate out-of-dir libs (so development iterations in them are reflected in rebuilds)

- tests/Makefile.am: drop obsoleted comment
- tests/nutclienttest.cpp: add test_strarr_alloc() This may seem trivial, but there are suspicions this allocation does not always work (e.g. NUT issue #1126)
- clients/nutclient.cpp: safety check in strarr_alloc(): returned pointer should be not null
- clients/nutclient.h: tests/nutclienttest.h: whitespace fixes (indent chars)
- tests/nutclienttest.cpp: whitespace fixes (wrap long lines for maintainability)

2.1063 2021-11-07 Jim Klimov <jim@jimklimov.com>

- drivers/gamatronic.c: shield a potentially truncating snprintf() into a small buffer
- drivers/bcmxcp.c: shield a potentially dangerous snprintf() into a small buffer as tested-safe
- clients/upscmd.c: shield a potentially dangerous snprintf() into a small buffer as tested-safe
- clients/upsrw.c: shield a potentially dangerous snprintf() into a small buffer as tested-safe
- m4/ax_c_pragmas.m4: add HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_FORMAT_TRUNCATION
- drivers/snmp-ups.c: load_mib2nut(): do not report "Unknown mibs value" just if a device did not match the mapping [NUT issue #1141]
- drivers/snmp-ups.c: refactor load_mib2nut() to not `strcmp(mib, "auto")` many times
- NEWS: added snmp-ups support for ondelay/offdelay for NUT-2.7.5
- drivers/arduino-hid.c: normalize whitespace for NUT codebase
- drivers/arduino-hid.c, drivers/arduino-hid.h: drivers/arduino-hid.{c,h}: update © to arduino-hid support author
- NEWS: added usbhid-ups new subdriver arduino-hid support for NUT-2.7.5
- NEWS: added USB HID support on interface number greater than 0 for NUT-2.7.5
- NEWS: added huawei-ups2000 support for NUT-2.7.5

2.1064 2021-11-06 Jim Klimov <jim@jimklimov.com>

- tests/.gitignore, tools/nut-scanner/.gitignore: GitIgnore LINKED_SOURCES (follow-up to PR #1159)
- .gitignore: GitIgnore .dirstamp in build trees
- Makefile.am: move removal of dist tarballs and build packages from "distclean" to "maintainer-clean"
- tools/nut-scanner/Makefile.am: mark use of LINKED_SOURCE_FILES as "nodist"
- tests/Makefile.am: mark use of LINKED_SOURCE_FILES as "nodist"
- Makefile.am: add a "make realclean" as alias to maintainer-clean
- Makefile.am: typo fix MAINTAINERCLEAN_FILES ⇒ MAINTAINERCLEANFILES
- ci_build.sh: there is no default "make realclean" implem in autotools, fall back to "maintainer-clean" support for wipingg the workspace

- Makefile.am, clients/Makefile.am, common/Makefile.am, conf/Makefile.am, data/Makefile.am, data/html/Makefile.am, docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, drivers/Makefile.am, include/Makefile.am, lib/Makefile.am, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/augeas/Makefile.am, scripts/devd/Makefile.am, scripts/hotplug/Makefile.am, scripts/python/Makefile.am, scripts/systemd/Makefile.am, scripts/udev/Makefile.am, scripts/ufw/Makefile.am, scripts/upsdrvsvcctl/Makefile.am, server/Makefile.am, tests/Makefile.am, tools/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am: there is no default "make realclean" implem in autotools, fall back to "maintainer-clean" support for wipingg the workspace
- Makefile.am, clients/Makefile.am, common/Makefile.am, conf/Makefile.am, data/Makefile.am, data/html/Makefile.am, docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, drivers/Makefile.am, include/Makefile.am, lib/Makefile.am, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/augeas/Makefile.am, scripts/devd/Makefile.am, scripts/hotplug/Makefile.am, scripts/python/Makefile.am, scripts/systemd/Makefile.am, scripts/udev/Makefile.am, scripts/ufw/Makefile.am, scripts/upsdrvsvcctl/Makefile.am, server/Makefile.am, tests/Makefile.am, tools/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am: reshuffle what we remove as part of "make distclean" vs. "make realclean" (can be remade only by autogen.sh)
- Makefile.am: do not "distclean" away some more parts of "configure" script ecosystem (leave that to "realclean")
- tools/nut-scanner/Makefile.am: restore use of $(builddir) for LINKED_SOURCE_FILES
- tests/Makefile.am: restore use of $(builddir) for LINKED_SOURCE_FILES
- ci_build.sh: call optional_realclean_check() after more build variants
- tools/Makefile.am: distclean the helper scripts that can be re-made
- ci_build.sh: change the cleanliness check from "distcheck" to "realcheck" and factor into a method
- Makefile.am: regenerate the helper needed for ChangeLog if cleaned away
- Makefile.am: delete the configure script and its components not in a "make distclean" but in "make realclean"

2.1065 2021-11-05 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/Makefile.am: use BUILT_SOURCES=LINKED_SOURCE_FILES to avoid dist-ing temporary symlinks as files
- tests/Makefile.am: use BUILT_SOURCES=LINKED_SOURCE_FILES to avoid dist-ing temporary symlinks as files
- ci_build.sh: only call dpkg if present
- ci_build.sh: configure_nut(): call ./autogen.sh before CONFIGURE_SCRIPT if there is no configure script
- tools/nut-scanner/Makefile.am: revise the magic of LINKED_SOURCE_FILES for distcheck
- tests/Makefile.am: revise the magic of LINKED_SOURCE_FILES for distcheck
- ci_build.sh: add a DO_DISTCHECK_CLEAN to make sure we clean everything made, and no more (after any distcheck)
- tools/nut-scanner/Makefile.am: revise the magic of LINKED_SOURCE_FILES for distcheck
- tests/Makefile.am: revise the magic of LINKED_SOURCE_FILES for distcheck
- tools/nut-scanner/Makefile.am: make sure to symlink sources into $(builddir)/
- tests/Makefile.am: make sure to symlink sources into $(builddir)/
- tools/nut-scanner/Makefile.am: work around dmake bugs
- tests/Makefile.am: work around dmake bugs
- tools/nut-scanner/Makefile.am: quote pathnames, and force the symlink (to overwrite older if any)
- tests/Makefile.am: quote pathnames, and force the symlink (to overwrite older if any)

- Makefile.am: distclean-local: first find(), then rm() the findings (find-recursion fails otherwise)
- tools/nut-scanner/Makefile.am: symlink source used from another directory into current builddir, do avoid external ".deps/" usage
- tests/Makefile.am: symlink source used from another directory into current builddir, do avoid external ".deps/" usage
- Makefile.am, clients/Makefile.am, common/Makefile.am, drivers/Makefile.am, server/Makefile.am, tests/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am: Do not clean ".deps" in SUBDIRS of the main project
- Makefile.am, clients/Makefile.am, common/Makefile.am, conf/Makefile.am, data/Makefile.am, data/html/Makefile.am, docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, drivers/Makefile.am, include/Makefile.am, lib/Makefile.am, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/augeas/Makefile.am, scripts/devd/Makefile.am, scripts/hotplug/Makefile.am, scripts/python/Makefile.am, scripts/systemd/Makefile.am, scripts/udev/Makefile.am, scripts/ufw/Makefile.am, scripts/upsdrvsvcctl/Makefile.am, server/Makefile.am, tests/Makefile.am, tools/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am: revise CLEANFILES and DISTCLEANFILES (favored over clean-local target rules)

2.1066 2021-11-05 Dim <dmitrijzukov@eaton.com>

- drivers/snmp-ups.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_snmp.c: Added new auth methods to snmp

2.1067 2021-11-04 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/Makefile.am: use libcommon.la as part of libnutscan.(la\|so)
- tools/nut-scanner/nut-scanner.c: revise parsing of --thread via strtol() Inspired by 42ITy fork approach to similar issue
- tools/nut-scanner/nut-scanner.c: rename "--jobs" to "--thread" Inspired by 42ITy fork approach to similar issue
- tools/nut-scanner/nut-scanner.c: refine sanity-checks for nofile_limit.rlim_cur value range
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/nut-scanner.c \+ scan_xml_http.c + scan_snmp.c + scan_nut.c + nut-scan.h: Add a hard limit on netxml scanning thread count
- configure.ac, tools/nut-scanner/nut-scanner.c: tools/nut-scanner/nut-scanner.c \+ configure.ac: detect if getrlimit() is usable
- tools/nut-scanner/nut-scanner.c: constrain default or requested job count with current `ulimit -n` (minus known overhead)
- tools/nut-scanner/nut-scanner.c: whitespace fix
- tools/nut-scanner/nut-scanner.c: wrap long line

2.1068 2021-11-04 Jim Klimov <EvgenyKlimov@eaton.com>

- tools/nut-scanner/Makefile.am: do not build common.c into nut-scanner (avoid double-definition of nut_debug_level among other things)
- tools/nut-scanner/Makefile.am: fix rule for NUT_SCANNER_DEPS to be sure
- clients/Makefile.am, common/Makefile.am, drivers/Makefile.am, server/Makefile.am, tests/Makefile.am, tools/nut-scanner/Makefile.a */Makefile.am: define dependencies on out-of-dir *.la helper libs: use AM_MAKEFLAGS (follows-up to PR #1151)
- tools/nut-scanner/Makefile.am: fix rule for NUT_SCANNER_DEPS to be sure
- clients/Makefile.am, common/Makefile.am, drivers/Makefile.am, server/Makefile.am, tests/Makefile.am, tools/nut-scanner/Makefile.a */Makefile.am: define dependencies on out-of-dir *.la helper libs: use AM_MAKEFLAGS (follows-up to PR #1151)

2.1069 2021-11-03 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/scan_eaton_serial.c: limit thread count like in scan_snmp.c
- tools/nut-scanner/scan_nut.c: limit thread count like in scan_snmp.c
- tools/nut-scanner/scan_xml_http.c: define TRUE/FALSE
- tools/nut-scanner/scan_xml_http.c: limit thread count like in scan_snmp.c
- tools/nut-scanner/scan_snmp.c: comment "#endif // HAVE_PTHREAD" to navigate in code better
- tools/nut-scanner/scan_snmp.c: only loop to free the thread_array if any were allocated
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/scan_snmp.c: tools/nut-scanner/nut-scan.h \+ scan_snmp.c: © header and some cosmetic fixes
- tools/nut-scanner/nut-scanner.c: bump default max_threads to not lag with /24 subnets
- configure.ac, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/nut-scanner.c: not all glibc versions HAVE_PTHREAD_TRYJOIN
- tests/.gitignore: GitIgnore test log and trace for "getvaluetest"

2.1070 2021-11-03 Jim Klimov <EvgenyKlimov@eaton.com>

- tools/nut-scanner/scan_snmp.c: only sleep after attempting pthread_tryjoin_np() if nothing got cleaned away
- tools/nut-scanner/scan_snmp.c: hide debug logging for thread herding
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/scan_snmp.c: tools/nut-scanner/scan_snmp.c: update comments and messages
- tools/nut-scanner/scan_snmp.c: update log-tracing of pthread herding
- tools/nut-scanner/scan_snmp.c: move locking of total thread count change when we add one
- tools/nut-scanner/scan_snmp.c: limit the thread count for parallelized scanning
- tools/nut-scanner/nut-scanner.c: add a threadcount_mutex to use in all children
- tools/nut-scanner/scan_snmp.c: handle max_threads, curr_threads
- tools/nut-scanner/nut-scanner.c: add support for -j N (--jobs=N) option to limit simultaneous scanning threads
- tools/nut-scanner/scan_snmp.c: comment a FIXME for limiting the pthread count
- tools/nut-scanner/nutscan-ip.c: nutscan_cidr_to_ip(): forbid scanning whole Internet
- tools/nut-scanner/nutscan-ip.c: tone down the debug-logging of CIDR processing
- tools/nut-scanner/nutscan-ip.c: only free cidr_tok after we are done manipulating its memory buffer
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-ip.c: nutscan-ip.c, nut-scanner.c: instrument the CIDR processing to trace an error

2.1071 2021-11-02 Jim Klimov <jim@jimklimov.com>

- docs/documentation.txt, docs/man/dummy-ups.txt: docs/documentation.txt \+ docs/man/dummy-ups.txt: refer to `tools/nut-ddl-` in the same manner (issue #1111)
- docs/man/dummy-ups.txt: fix use of "link:" tag in asciidoc (issue #1111) and slightly reword
- docs/documentation.txt: fix use of "link:" tag in asciidoc (issue #1111) and slightly reword
- docs/nut-names.txt: fix use of "link:" tag in asciidoc (issue #1111)
- docs/developers.txt: fix use of "link:" tag in asciidoc (issue #1111)

2.1072 2021-11-01 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: give the caller a way to disable parallel builds with PARMAKE_FLAGS=" " (space)
- ci_build.sh: enable parallel builds for default build (one without a BUILD_TYPE specified)
- ci_build.sh: enable parallel builds for "distcheck" in default builds, which should now pass well (after usual build and check passed)
- ci_build.sh: report chosen settings for parallel builds
- configure.ac: test more proactively if valgrind can test things and not crash by itself
- ci_build.sh: enable parallel builds for "default-tgt:*" which should now pass well
- ci_build.sh: guess the available amount of parallelism for the current system; consider load averages for GNU Make too
- docs/Makefile.am, docs/man/Makefile.am: docs/(man/)Makefile.am: move back to builddir all files for the built documents, not just the target name
- docs/Makefile.am, docs/man/Makefile.am: docs/(man/)Makefile.am: before putting back the built documents, clean up the destination if needed and make the workdir removable if needed (a2x can copy system/EXTRA_DIST resources with their attrs)
- ci_build.sh: update the heading comment

2.1073 2021-10-31 Jim Klimov <jim@jimklimov.com>

- docs/Makefile.am, docs/man/Makefile.am: docs/(man/)Makefile.am: only delete target before build if it is a directory (chunked HTML)
- docs/Makefile.am: update comment about destination dir for asciidoc/a2x
- docs/man/Makefile.am: Revert "docs/man/Makefile.am: tone down the use of "touch" for multicomponent docs" This reverts commit 0b9ac2500ddbc7bd11a639805d43cda9259bfb1f.
- docs/Makefile.am: avoid potential for races where same document is built several times (mentioned in different list variables)
- docs/man/Makefile.am: avoid races where same document is built several times (mentioned in different list variables)
- docs/man/Makefile.am: Revert "docs/man/Makefile.am: avoid races where same document is built several times (mentioned in different list variables)" This reverts commit 29ae5a8f6e5524d689ebaf2abdf508528288b010.
- docs/man/Makefile.am: tag DOC-MAN-HTML visibly different from DOC-HTML of the main docs dir
- docs/man/Makefile.am: avoid races where same document is built several times (mentioned in different list variables)
- docs/man/Makefile.am: tone down the use of "touch" for multicomponent docs
- docs/.gitignore, docs/Makefile.am, docs/man/.gitignore, docs/man/Makefile.am: docs/(man/)Makefile.am: fan out doc builds into subdirectories, where we can, so parallel runs do not collide
- docs/man/Makefile.am: whitespace fixes (drop some indentation)
- ci_build.sh: support CI_REQUIRE_GOOD_GITIGNORE=false to bypass fatal error on git status being not empty after build

2.1074 2021-10-30 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: as developer aid, add "(all-)docs" target to try building all types regardless of enablement by configure script; also add "make man" support
- tools/nut-scanner/Makefile.am: reference nut_version.h in a way that does not offend "make dist(check)"
- tools/nut-scanner/Makefile.am: reference some out-of-dir sources via top_srcdir (not ../..)
- clients/Makefile.am, drivers/Makefile.am, server/Makefile.am, tests/Makefile.am, tools/nut-scanner/Makefile.am: */Makefile.am: define dependencies on out-of-dir *.la helper libs, and reference them via top_builddir (not ..)
- common/Makefile.am: reference nut_version.h in a way that does not offend "make dist(check)"
- ci_build.sh: default "minimal" ritual should not spend half the time building docs

2.1075 2021-10-27 Jim Klimov <jimklimov@gmail.com>

- drivers/snmp-ups.c: fix buffer size to possibly print max size_t

2.1076 2021-10-26 Jim Klimov <jim@jimklimov.com>

- drivers/hidparser.c: Parse_ReportDesc(): fix "max" to size_t and "id" to uint8_t, to match struct fields
- drivers/blazer_usb.c: fix cast of range-checked u_langid_fix
- drivers/blazer_usb.c: fix cast of return types to size_t vs int
- drivers/libhid.c: string_to_path(): range-check and cast converted values for path→Node[]
- drivers/libhid.c: hid_lookup_usage(): fix cast of usage_code for printing and returning
- drivers/libhid.c: string_to_path(): check for type overflow, and cast
- drivers/libhid.c: fix types for iterating vs rbuflen from int to size_t
- drivers/libhid.c, drivers/libhid.h: drivers/libhid.{c,h}: fix interrupt_size from int to size_t
- drivers/libhid.c: fix types for iterating vs rbuflen from int to size_t
- drivers/libhid.c, drivers/libhid.h: drivers/libhid.{c,h}: fix max_report_size from int to size_t
- drivers/libhid.c: file_report_buffer(): fix buflen from int to size_t
- drivers/hidtypes.h: change HIDDesc_t.replen[] from (array of) int to size_t
- drivers/nutdrv_qx_bestups.c: cast for bit math for qx_status() result
- drivers/nutdrv_qx_voltronic.c: cast for bit math for qx_status() result, and line-wrap a long message
- drivers/usbhid-ups.c: cast arg for upsdebug_hex() to size_t
- drivers/nutdrv_qx_voltronic-qs-hex.c: cast arg for upsdebug_hex() to size_t
- drivers/libusb.c: libusb_open(): cast rdlen to unsigned to match usb_control_msg() where it is safe to do so
- drivers/libhid.h: drivers/libusb.h: change reportbuf_t.len[] from (array of) int to size_t
- drivers/hidparser.c, drivers/hidtypes.h: drivers/hidtypes.h \+ hidparser.c: change HIDDesc_t.nitems from int to size_t
- drivers/hidparser.c: cast int types to explicit conversions where safe
- drivers/snmp-ups.c, drivers/snmp-ups.h: drivers/snmp-ups.{c,h}: fix SU_FLAG_* to (unsigned long) and their usage, to match snmp_info_t→flags type

- drivers/snmp-ups.c: decode_str(): range-check return of snprintf()
- tests/getvaluetest.c: align test structure with field types in HIDData_t
- tests/getvaluetest.c: fix bufsize size_t type
- tests/getvaluetest.c: mark static local methods as such
- drivers/hidparser.c: for skipping botched LogMin/LogMax, also log a message

2.1077 2021-10-22 Jim Klimov <jim@jimklimov.com>

- autogen.sh: surprise, not all systems have "dos2unix"
- configure.ac: fix use of --with-docs
- configure.ac: fix use of --with-valgrind

2.1078 2021-10-21 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: currently constrain cppcheck phase(s) to fightwarn-related branch/PR builds

2.1079 2021-10-20 Stephan Blecher <_github@blecher.at>

- drivers/hidparser.c

2.1080 2021-10-20 Jim Klimov <jim@jimklimov.com>

- .gitignore, Jenkinsfile-dynamatrix, Makefile.am, ci_build.sh, configure.ac, docs/config-prereqs.txt, docs/nut.dict, m4/nut_check_cppch
  Add recipe support for cppcheck analysis
- ci_build.sh: let initial DO_DISTCHECK value be set by caller

2.1081 2021-10-20 Arnaud Quette <arnaud.quette@gmail.com>

- tools/nut-scanner/scan_snmp.c: Only try all OIDs if sysOID matching failed

2.1082 2021-10-19 Jim Klimov <jim@jimklimov.com>

- drivers/nutdrv_qx_ablerex.c, drivers/nutdrv_qx_ablerex.h: drivers/nutdrv_qx_ablerex.{c,h}: heading fixes — name, descr, ©
- drivers/nutdrv_qx.c, drivers/nutdrv_qx_ablerex.c: drivers/nutdrv_qx.c \+ nutdrv_qx_ablerex.c: common whitespace fixes
- drivers/Makefile.am: restore bits lost with initial posting of PR #1135
- drivers/nutdrv_qx.c: update DRIVER_VERSION for added "ablerex" support

2.1083 2021-10-18 Ablerexsoftware <Ablerex.software@ablerex.com.tw>

- drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_ablerex.c, drivers/nutdrv_qx_ablerex.h: Add nutdrv_qx driver for Ablerex model PR #2

2.1084 2021-10-16 Jim Klimov <jimklimov+nut@gmail.com>

- ci_build.sh, docs/developers.txt: ci_build.sh: add BUILD_TYPE=fightwarn(-clang\|-gcc) for presets with developer aid Also updated docs/developers.txt with example and description

2.1085 2021-10-16 Jim Klimov <jim@jimklimov.com>

- NEWS, UPGRADING, docs/nut.dict: UPGRADING: notice that upsdebugx() et al became macros in NUT-2.7.5
- NEWS: another expected point for release after 2.7.5

2.1086 2021-10-15 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: report Build host settings

2.1087 2021-10-14 Jim Klimov <jim@jimklimov.com>

- drivers/Makefile.am, drivers/snmp-ups-helpers.c, drivers/snmp-ups.c, drivers/snmp-ups.h: Separate source files of snmp-ups.c (driver core) and snmp-ups-helpers.c (shared mapping tables and funcs) (#1134) * drivers/Makefile.am: bring some order into snmp_ups_SOURCES list * drivers/snmp-ups.h: update © heading * drivers/snmp-ups.h: comment that su_find*() are related to certain info_lkp_t fields * drivers/snmp-ups.c: extract snmp-ups-helpers.c that can be built independently * drivers/snmp-ups.h: mark the range of data points related to Subdrivers shared helpers functions

2.1088 2021-10-13 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: su_find_strval() should consider #if WITH_SNMP_LKP_FUN

2.1089 2021-10-12 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/nutscan-ip.c: safety-check and cast use of small mask_byte values
- drivers/powerware-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: drivers/snmp-ups.{h,c} \+ powerware-mib.c: reference date converter by macro name instead of magic number
- drivers/snmp-ups.c, drivers/snmp-ups.h: drivers/snmp-ups.{h,c}: rename the fun/nuf mappings to fun_vp2s/nuf_s2l to match the DMF codebase and ease eventual backports
- drivers/snmp-ups.h: comment the fun/nuf mapping and their relation to su_find_*() methods
- drivers/snmp-ups.c: clarify that we pass a "long*" arg to su_find_infoval()
- drivers/snmp-ups.c: typo fix
- drivers/snmp-ups.c: clarify in decode_str() that we pass a "long*" arg to su_find_infoval()
- drivers/snmp-ups.c, drivers/snmp-ups.h: drivers/snmp-ups.{c,h}: rearrange braces, blank lines and some comments to match the formatting fixes in DMF branch (and to simplify eventual backport)
- drivers/snmp-ups.c: rearrange mib2nut[] in alphabetic order (except *ietf tables that go last) and reference mib.c sources
- tools/nut-scanner/scan_snmp.c: fix whitespace (indent)
- Jenkinsfile-dynamatrix: fix regex pattern for dynacfgPipeline.appliesToChangedFilesRegex_FILES_PY
- Jenkinsfile-dynamatrix: parameterize dynacfgPipeline.axisCombos* and excludeCombos_DEFAULT_* for repetitive settings
- Jenkinsfile-dynamatrix: parameterize dynacfgPipeline.branchStableRegex

- docs/ci-farm-lxc-setup.txt: extend sample capability labels with PYTHON variants
- Jenkinsfile-dynamatrix: update for Python-version build scenarios
- Jenkinsfile-dynamatrix: add dynacfgPipeline.appliesToChangedFilesRegex_FILES_PY for future handling
- Jenkinsfile-dynamatrix: update dynacfgPipeline.appliesToChangedFilesRegex_FILES_RECIPE to consider changes of autogen.sh
- tools/nut-scanner/nutscan-serial.c: fix whitespace style
- tools/nut-scanner/nutscan-ip.c: fix whitespace style

2.1090 2021-10-11 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/nutscan-device.c: fix whitespace style
- tools/nut-scanner/scan_snmp.c: fix whitespace style
- tools/nut-scanner/scan_avahi.c: fix whitespace style
- tools/nut-scanner/scan_ipmi.c: fix whitespace style
- tools/nut-scanner/nutscan-serial.c: fix whitespace style
- tools/nut-scanner/nutscan-ip.c: fix whitespace style
- tools/nut-scanner/scan_xml_http.c: fix whitespace style
- tools/nut-scanner/scan_eaton_serial.c: fix whitespace style
- tools/nut-scanner/nutscan-device.h: fix whitespace style
- tools/nut-scanner/scan_usb.c: fix whitespace style
- tools/nut-scanner/scan_nut.c: fix whitespace style
- tools/nut-snmpinfo.py.in: fix whitespace style of generated header
- tools/nut-snmpinfo.py.in: fix heading of generated header
- docs/Makefile.am, docs/man/Makefile.am: docs{,/man}/Makefile.am: quiesce docs-generating targets by default to just state what they make
- docs/nut.dict: Update spellchecker dict

2.1091 2021-10-09 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: add support for CI agents setting NUT_BUILD_CAPS=valgrind=no
- Makefile.am: `make spellcheck` from top dir should be quieter (fallout from touchfiles)
- docs/ci-farm-lxc-setup.txt: stress to `systemctl restart lxc-net` after edits of /etc/lxc/dnsmasq-hosts.conf
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: stress that for CI_WRAP_SH method, the Prefix Start Agent Commandshould not pollute stderr/stdout
- Jenkinsfile-dynamatrix: report more details about the build host when we "Inspect initial envvars"

2.1092 2021-10-08 Jim Klimov <jim@jimklimov.com>

- scripts/subdriver/gen-snmp-subdriver.sh: gen-snmp-subdriver.sh: deprecate "which" in favor of "command -v"
- ci_build.sh: deprecate "which" in favor of "command -v"

2.1093 2021-10-07 Jim Klimov <jim@jimklimov.com>

- m4/nut_check_python.m4: export PYTHON(2,3) envvars for other scripts called in the build

2.1094 2021-10-05 Jim Klimov <jimklimov@gmail.com>

- autogen.sh: suggest CRLF fixes for the workspace (e.g. if checked out on Windows) This falls a bit short of enforcing with .gitattributes which may or may not interfere with platform-native editors and other tools.

2.1095 2021-10-05 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: more AC_CHECK_HEADERS_ONCE
- ci_build.sh: for default mode (no BUILD_TYPE) enable cgi and dev files (no⇒auto) and do not require serial drivers (yes⇒auto)
- m4/nut_type_socklen_t.m4: fix detection on windows Probably practical codebase should also account for other arg types, e.g. "SOCKET" that is not even exported into a macro so far.
- ci_build.sh: report CI_OS_NAME detection issues more clearly It is not helpful to read just this: Could not recognize ... from '-'

2.1096 2021-10-05 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: Update spellchecker
- NEWS: added FTTx support and other genericups improvenets for NUT-2.7.5

2.1097 2021-10-04 Jim Klimov <jimklimov+nut@gmail.com>

- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: recommend a unique Remote root directory per agent
- docs/config-prereqs.txt: Debianish systems tend to deliver g+\+ in a separate package from gcc
- docs/ci-farm-lxc-setup.txt, docs/nut.dict: docs/ci-farm-lxc-setup.txt: add a chapter on Jenkins Build Agent setup for the containers

2.1098 2021-10-04 Jim Klimov <jim@jimklimov.com>

- drivers/apcupsd-ups.c: process(): fix int types
- drivers/apcupsd-ups.c: upsdrv_initups(): fix type of port
- drivers/nutdrv_qx.h: define QX_FLAG_* macros as typed numbers (UL) to match item_t→qxflags
- drivers/powercom-hid.c: range-check and cast uint16_t values for ups delays
- drivers/nutdrv_atcl_usb.c: align return type of usb_interrupt_read() and our upsdebug_hex() args
- drivers/upscode2.c: align types of two statuses
- drivers/upscode2.c: fix useconds_t output_pace_usec
- drivers/upscode2.c: fix speed_t baud var
- drivers/upscode2.c: fix ssize_t ret for ser*() routines
- drivers/powerp-txt.c: fix ssize_t ret for ser*() routines

- drivers/powerp-bin.c: fix ssize_t ret for ser*() routines, and cmd len
- drivers/powerpanel.h: adjust powerpanel subdriver_t funcptr type for initups()
- drivers/ivtscd.c: fix ssize_t for ivt_status() and ser_*() involved
- drivers/riello_ser.c: riello_instcmd(): fix int type of delay vs atoi()
- drivers/riello_ser.c: fix ssize_t ret for read() routines
- drivers/riello_usb.c: ussleep(): fix useconds_t type
- drivers/riello_usb.c: riello_instcmd(): fix int type of delay vs atoi()
- drivers/riello_usb.c: Get_USB_Packet(): fix int type of size
- drivers/riello.c: riello_parse_rc(): cast uint8_t into char
- drivers/riello.c: riello_prepare*(): cast delay%256 into uint8_t
- drivers/riello.c: riello_parse_sentr(): cast pom maths into uint16_t explicitly... range-check missing though
- drivers/riello.c: riello_parse_sentr(): cast uint8_t ⇒ char to construct Version byte by byte
- drivers/riello.c: riello_parse_gn(): range-check and cast the NomPowerKVA / NomPowerKW
- drivers/riello.c: riello_calc_CRC(): clarify and cast the bitness magic as needed
- drivers/powercom.c: fix int type of model vars to match OPTImodels/BNTmodels/KINmodels/IMPmodels arrays
- drivers/powercom.c: avoid casting via wrong int type for termios fields
- drivers/powercom.c, drivers/powercom.h: drivers/powercom.{c,h}: align int size for delay (min, sec) and ser_send_char() sending a char
- drivers/tripplite.c: fix casting of unsigned delays from atoi()
- drivers/tripplite.c: fix casting of ints in send_cmd()
- drivers/tripplitesu.c: fix casting of ints into unsigned min/max high/low transfer values
- drivers/nutdrv_qx_masterguard.c: hide warnings for intentional variable format string use
- drivers/nutdrv_qx_masterguard.c: avoid a few potential uninitialized uses
- drivers/nutdrv_qx_masterguard.c: fix a case of shadowed vars in a clause
- drivers/nutdrv_qx_masterguard.c: declare local vars and funcs as static
- drivers/netxml-ups.c: fix casting ssize_t value up to size_t for ne_buffer_append() args
- drivers/netxml-ups.c: fix int type of port for ne_sock_connect() args
- drivers/nut-libfreeipmi.c: range-check and cast returned ipmi_dev→sensors_count
- drivers/nut-libfreeipmi.c: libfreeipmi_get_sensors_info(): we check that sdr_record_len is not negative, so can cast to (uint)
- drivers/nut-libfreeipmi.c: libfreeipmi_get_board_info(): range-check and cast mfg_date_time
- drivers/nut-libfreeipmi.c: libfreeipmi_get_psu_info(): range-check and cast libfreeipmi method arguments which are ints
- drivers/nut-libfreeipmi.c: libfreeipmi_get_psu_info(): range-check and cast libfreeipmi method arguments which are uint8_t
- drivers/nut-libfreeipmi.c: nut_ipmi_open(): range-check and cast libfreeipmi method arguments which are uint8_t
- conf/Makefile.am, docs/man/Makefile.am: avoid prerequisites on suffix rules
- drivers/apc-mib.c: bump APCC_MIB_VERSION for PR #1113
- docs/man/genericups.txt, drivers/genericups.c: genericups: officially alias "NULL" and "none" setting keywords
- Jenkinsfile-dynamatrix: extend QEMU build scenarios to "ssh-qemu-nut-builder" agents, and to iterate "COMPILER" toolkits for cross-check on same platform

2.1099 2021-10-03 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: Update spellchecker
- docs/ci-farm-lxc-setup.txt: document making a self-login ssh key for abuild
- docs/ci-farm-lxc-setup.txt: document allowing container SSH server to accept envvars from client

2.1100 2021-10-03 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: Typo fix: remove extra unstashCleanSrc() for ci_build.sh preparations
- Jenkinsfile-dynamatrix: allow limited use of QEMU containers as build agents (slow workers ⇒ few combos)

2.1101 2021-10-02 Jim Klimov <jimklimov+nut@gmail.com>

- configure.ac: test if valgrind is actually usable on build/check ssytem
- docs/ci-farm-lxc-setup.txt: fix extraction of hosts-map data
- docs/ci-farm-lxc-setup.txt: make note of lxc-create for other distros
- docs/ci-farm-lxc-setup.txt: add git to early starter-kit of packages

2.1102 2021-10-02 Jim Klimov <jim@jimklimov.com>

- configure.ac: quiesce the check for usable valgrind binary
- docs/nut.dict: Update spellchecker
- configure.ac: adapt warnings level (auto, minimal) for GCC with c89/c90/ansi requested builds
- tests/getvaluetest.c: fix declaration of variables in code body, and type of sizeof-derived iterator
- tests/getvaluetest.c: normalize whitespace to NUT style
- tests/getvaluetest.c: add © and descriptive heading

2.1103 2021-09-30 Jim Klimov <jimklimov+nut@gmail.com>

- .lgtm.yml: drop redundant lines
- autogen.sh: whitespace fix
- autogen.sh, configure.ac, scripts/systemd/Makefile.am: nut-common.tmpfiles.in: fix systemd magic vs autoconf magic Follows up from PR #1037 for issue #1030 to let the trick work for distcheck and similar out-of-tree builds.

2.1104 2021-09-30 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix, docs/developers.txt: Jenkinsfile-dynamatrix \+ developers.txt: for "GNU C89 standard builds with fatal warnings", only run with a `fightwarn.*89.*` regex branch name; do not pollute logs and analysis of "usual fightwarn" builds
- Jenkinsfile-dynamatrix: for "GNU C standard builds with non-fatal warnings, without distcheck and docs (must pass)" slowBuild scenario, start with a "gnu89/gnu\+\+98" non-regression variant
- Jenkinsfile-dynamatrix: reword some slowBuild filter config descriptions and comments

- docs/developers.txt, docs/nut.dict: docs/developers.txt: extend the description of NUT CI setup Clarification of adaptive jobs, running different sets of scenarios, and how to reproduce a failed test case locally. Also updated spellchecker dictionary.
- docs/developers.txt: stress likely incompatibility with stricter C89/GNU89/ANSI-C standard, so C99 (GNU99) is the baseline
- Jenkinsfile-dynamatrix: rearrange for readability (line-split allowedFailure and excludeCombos blocks that have many combos inside)

2.1105 2021-09-28 Jim Klimov <jim@jimklimov.com>

- drivers/microdowell.c: shuffle include-file order
- drivers/microdowell.c: instcmd(): casting and (pragma-hushed) range checks for "delay"
- drivers/solis.c: convert_days(): limit the range for safe casting to size_t for memcpy()
- drivers/rhino.c: align int types in send_command()
- drivers/microsol-common.c, drivers/microsol-common.h: drivers/microsol-common.{c,h}: mark local variables as static; expose a few reasonable ones as extern
- drivers/microdowell.c, drivers/microdowell.h: drivers/microdowell.{c,h}: fix size_t lengths and uint16_t/uint32_t status bitmasks
- drivers/phoenixcontact_modbus.c: declare upsdrv_shutdown() as noreturn
- drivers/phoenixcontact_modbus.c: declare file-local variables static
- drivers/hidparser.c: avoid shadowed local variables in HIDParse()
- drivers/hidparser.c: fix Value cast in FormatValue()
- drivers/usbhid-ups.c: fix status_mask to unsigned int for STATUS() and bitmask maths
- drivers/usbhid-ups.c: fix parsing of interrupt_size from args, and error out on invalid inputs
- drivers/nutdrv_siemens_sitop.c: fix counters to unsigned int
- drivers/mge-hid.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: drivers/usbhid-ups.{c,h} \+ mge-hid.c: fix ups_status from int to "unsigned" to match the STATUS() macro and bitmask maths
- tools/nut-scanner/scan_snmp.c: fix type for snmp_sess.timeout assignment
- drivers/microsol-apc.h: align type of NOMINAL_POWER[] to int, like nominal_power var in microsol-common.h
- drivers/oneac.c: fix buf sizes to size_t
- drivers/main.c, drivers/main.h, drivers/mge-utalk.c, drivers/nutdrv_siemens_sitop.c, drivers/usbhid-ups.c: drivers/main.{c,h} et al: fix poll_interval to be time_t like the time() it has maths with
- drivers/main.c: allow only positive pollinterval settings (avoid DoS by crazy loop)
- drivers/main.c: report and fail with invalid pollinterval settings
- drivers/serial.c: after some investigation of standards, we may cast useconds_t⇒suseconds_t
- server/netset.c: log tracking_disable() result to find a use for it (warning fix)
- drivers/richcomm_usb.c: execute_and_retrieve_query(): fix int casting and add diags pragmas for range checks
- drivers/bcmxcp_usb.c: get_answer(): fix int casting for tail; fix redundant comparison
- drivers/bestfortress.c: simplify usleep(d_usec) to no casting
- drivers/belkin.c: comment why casting usleep(cnt) is okay

- drivers/microdowell.h: normalize whitespace within the file
- drivers/microsol-apc.h: whitespace fix
- .gitignore: GitIgnore the tmp/ subdirectory used by CI builds
- .gitignore: GitIgnore Python precompiled files

2.1106 2021-09-27 Jim Klimov <jim@jimklimov.com>

- clients/upsclient.c, common/common.c, docs/new-drivers.txt, drivers/serial.c, drivers/serial.h, include/common.h: include/common.h, drivers/serial.{c,h}, docs/new-drivers.txt, common/common.c, clients/upsclient.c: fix d_sec long ⇒ time_t to match timeval struct fields
- include/common.h, common/common.c, clients/upsclient.c: fix select_read()/select_write(): long d_usec ⇒ suseconds_t
- docs/nut.dict: update for new-drivers.txt revision
- docs/new-drivers.txt: align USB-common structure and method signature descriptions with current drivers/**usb**.h
- docs/man/upscli_readline.txt, docs/man/upscli_sendline.txt: docs/man/upscli_readline.txt \+ upscli_sendline.txt: update method arguments to match code (timeout unsigned int ⇒ const long)
- docs/man/upscli_list_next.txt, docs/man/upscli_list_start.txt: docs/man/upscli_list_start.txt \+ upscli_list_next.txt: update method arguments to match code (numa/numq unsigned int ⇒ size_t)
- configure.ac: split generation of "data" files vs. "scripts" from *.in templates
- configure.ac: Update python scripts to be generated by configure and using the detected PYTHON value
- clients/nutclient.h: whitespace typo fix
- docs/developers.txt: fix reference to Fosshost to be an URL
- .lgtm.yml: Add .lgtm.yml to specify search for python template files * Index *.py.in \+ scripts/python/app/NUT-Monitor.in * Do not consider them templates to ignore * Also turn off the FIXME alerts, NUT has a lot of those so far
- NEWS: updated the python 2\+3 compatibility notice
- Makefile.am: call the generated gitlog2changelog.py from correct path
- scripts/augeas/Makefile.am, tools/Makefile.am: Fix "dist" targets to call templates gen-nutupsconf-aug.py.in and nut-snmpinfo.py.in that they have
- scripts/python/module/PyNUT.py.in, scripts/python/module/test_nutclient.py.in: scripts/python/module/PyNUT.py.in: update syntax for Python 3 (also ok for 2.7)
- .gitignore: GitIgnore possible leftovers from interrupted configure script run
- scripts/Solaris/.gitignore, scripts/augeas/.gitignore, scripts/python/app/.gitignore, scripts/python/module/.gitignore, tools/.gitignore: GitIgnore generated python scripts
- scripts/augeas/Makefile.am: comment where gen-nutupsconf-aug.py comes from
- autogen.sh: simplify call of gen-nutupsconf-aug.py.in in the subdir
- autogen.sh: use gen-nutupsconf-aug.py.in with the $PYTHON interpreter
- ci_build.sh: pass $PYTHON envvar -t configure --with-python=... arg
- configure.ac: split generation of "data" files vs. "scripts" from *.in templates

- configure.ac, scripts/Solaris/Makefile.am, scripts/Solaris/{precheck.py ⇒ precheck.py.in}, scripts/augeas/Makefile.am, . . . /{gen-nutupsconf-aug.py ⇒ gen-nutupsconf-aug.py.in}, scripts/python/Makefile.am, scripts/python/app/{NUT-Monitor ⇒ NUT-Monitor.in scripts/python/module/{PyNUT.py ⇒ PyNUT.py.in}, . . . /module/{test_nutclient.py ⇒ test_nutclient.py.in}, tools/Makefile.am, tools/{gitlog2changelog.py ⇒ gitlog2changelog.py.in}, tools/{nut-snmpinfo.py ⇒ nut-snmpinfo.py.in}: Update python scripts to be generated by configure and using the detected PYTHON value
- configure.ac, m4/nut_check_python.m4: configure.ac: detect PYTHON, PYTHON2, PYTHON3 implementations in the build environment
- autogen.sh: find various python versions if not specified by $PYTHON
- clients/nutclient.h: whitespace typo fix
- docs/developers.txt: fix reference to Fosshost to be an URL
- NEWS: expect a few more milestones for 2.7.6 (or later) release
- UPGRADING: mention protocol changes due to new TRACKING ability
- NEWS, UPGRADING: NEWS \+ UPGRADING: Warn about API changes due to fightwarn

2.1107 2021-09-26 Mark Dietzer <git@doridian.net>

- drivers/apc-mib.c: Add active power and apparent power from APC MIBs for single-phase UPS devices

2.1108 2021-09-26 Jim Klimov <jim@jimklimov.com>

- drivers/upsdrvctl.c: fix data types for alarm() and sleep()
- drivers/mge-utalk.c: fix int casting to snprintf() (size_t/ssize_t)
- drivers/mge-utalk.c: fix int casting to ser_get*()/ser_send_*() (size_t/ssize_t)
- drivers/metasys.c: fix int casting to ser_get*()/ser_send_*() (size_t/ssize_t)
- drivers/liebert-esp2.c: fix int casting to ser_get*() (size_t/ssize_t)
- drivers/gamatronic.c: fix int casting to ser_get*() (size_t/ssize_t) and unify naming of msg(_)len
- drivers/bestups.c: fix int casting to ser_get*() (size_t/ssize_t)
- drivers/bestuferrups.c: fix int casting to ser_get*() (size_t/ssize_t)
- drivers/bestfortress.c: fix int casting to ser_get*() (size_t/ssize_t)
- drivers/bestfcom.c: fix int casting to ser_get*() (size_t/ssize_t)
- drivers/belkinunv.c: fix int casting to ser_get*(), read() and write() (size_t/ssize_t)
- drivers/belkin.c: fix int casting to ser_get*() (size_t/ssize_t)
- drivers/al175.c: fix raw_data_t::buf_size and io_head_t::addr,len to size_t
- drivers/al175.c: fix int casting to ser_get*() (size_t/ssize_t)
- drivers/dstate.c: augment range check when using size_t as int
- drivers/dstate.c: fix int casting to read() and write(), add range checks for bytes written (size_t/ssize_t)
- Jenkinsfile-dynamatrix: for a non-PR build of a fightwarn* branch, reference *fightwarn* for analysis

2.1109 2021-09-25 Jim Klimov <jim@jimklimov.com>

- docs/developers.txt, docs/nut.dict: docs/developers.txt: replace references to defunct Travis CI with new NUT CI farm [#869]
- docs/nut-qa.txt, docs/nut.dict: docs/nut-qa.txt: replace references to defunct Travis CI with new NUT CI farm [#869]
- Jenkinsfile-dynamatrix: with customized shellcheck dynamatrixAxesLabels, be sure to match both OS_FAMILY and OS_DISTRO as a bundle
- Jenkinsfile-dynamatrix: with docs\+distcheck, also test compliance with available Make interpreters
- Jenkinsfile-dynamatrix: with shellcheck, also test available Make interpreters
- Makefile.am, configure.ac, include/Makefile.am: configure.ac \+ {./,include/}Makefile.am: revise the recipe for include/nut_version.h
- docs/nut.dict: update dict
- ci_build.sh: call "$MAKE -j NUM" with a space, to cater for make implems that require a separate argument token

2.1110 2021-09-23 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict

2.1111 2021-09-23 Jim Klimov <jim@jimklimov.com>

- drivers/generic_modbus.c: drivers/generic_modbus.{c,h}: fix whitespace style (original fix from master branch)
- drivers/bcmxcp_usb.c: fix elapsed_time type and casting
- drivers/bcmxcp.c, drivers/bcmxcp_io.h, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c: drivers/bcmxcp*.{c,h}: fix types involved with read() and write() to ssize_t
- tools/nut-scanner/nutscan-serial.c: fix count to size_t
- tools/nut-scanner/scan_avahi.c: fix buf_size to size_t
- tools/nut-scanner/scan_eaton_serial.c: fix types involved with read() and write() to ssize_t
- tools/nut-scanner/scan_eaton_serial.c: fix size_t thread_count and its iterator
- drivers/serial.c, drivers/serial.h: drivers/serial.[h,c]: fix d_usec from long to useconds_t
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/*.[h,c]: fix usec_timeout from long to useconds_t
- tools/nut-scanner/scan_xml_http.c: fix size_t thread_count and its iterator
- tools/nut-scanner/scan_xml_http.c: fix recv_size use as size_t parameter
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/scan_xml_http.c: tools/nut-scanner/nut-scan.h \+ scan_xml_http.c: fix port type to uint16_t
- tools/nut-scanner/scan_snmp.c: fix arg type for generate_Ku()
- drivers/apc-hid.c, drivers/bcmxcp_usb.c, drivers/belkin-hid.c, drivers/blazer_usb.c, drivers/cps-hid.c, drivers/delta_ups-hid.c, drivers/idowell-hid.c, drivers/liebert-hid.c, drivers/mge-hid.c, drivers/nutdrv_atcl_usb.c, drivers/openups-hid.c, drivers/powercom-hid.c, drivers/powervar-hid.c, drivers/richcomm_usb.c, drivers/riello_usb.c, drivers/tripplite-hid.c, drivers/tripplite_usb.c, drivers/usb-common.c, drivers/usb-common.h: drivers/usb-common.{c,h} drivers/*{usb,hid}.c: fix type of usb_device_id_t vendorID/productID to uint16_t * usb-common.h: fix the definition * *{usb,hid}.c: sentinel in a table of uint16_t can not be -1 * usb-common.c: uint16_t for vendor and product — change sentinel matcher for full (0,0,NULL) hits
- tools/nut-scanner/nutscan-ip.c: tools/nut-scanner/scan_xml_http.c: 32-bit IPv4 addr mask should be uint32_t not int

- tools/nut-scanner/nutscan-ip.c: tools/nut-scanner/scan_xml_http.c: 32-bit IPv4 addr should be uint32_t not int
- tools/nut-scanner/nutscan-ip.c: use platform-dependent getnameinfo() argument types
- tools/nut-scanner/scan_snmp.c: fix size_t thread_count and its iterator
- tools/nut-scanner/scan_nut.c: fix size_t thread_count and its iterator
- tools/nut-scanner/scan_nut.c: fix size_t buf_size
- tools/nut-scanner/scan_nut.c: align upscli_*() numa and numq args from "unsigned int" to "size_t", to match PCONF_CTX_t fields
- server/upsd.c: fix comparisons of nfds_t maxconn, long sysconf() and size_t malloc()
- server/upsd.c: check if maxconn<1 to avoid signedness issues and because zero connections are also useless
- server/upsd.c: align use of nfds_t vs. long (maxconn) for GCC "-Wtype-limits"
- tools/nut-scanner/scan_ipmi.c: range-check and cast ipmi_sec→authentication_type ipmi_sec→privilege_level ipmi_id to match method signatures
- drivers/bcmxcp.c: fix whitespace style
- drivers/bcmxcp_ser.c: fix whitespace style
- tools/nut-scanner/scan_avahi.c: fix whitespace style
- tools/nut-usbinfo.pl: tools/nut-usbinfo.pl ⇒ generated nutscan-usb.h: sentinel in a table of uint16_t can not be -1
- m4/nut_func_getnameinfo_argtypes.m4: reorder the loop to first try current X/Open definition of getnameinfo()
- configure.ac, m4/nut_check_headers_windows.m4, m4/nut_func_getnameinfo_argtypes.m4: m4/nut_func_getnameinfo_argtypes.m4 m4/nut_check_headers_windows.m4: lift recipes from cURL to detect NUT_FUNC_GETNAMEINFO_ARGTYPES
- tools/nut-scanner/scan_xml_http.c: fix whitespace style
- tools/nut-scanner/scan_usb.c: fix whitespace style
- tools/nut-scanner/scan_snmp.c: fix whitespace style
- tools/nut-scanner/scan_nut.c: fix whitespace style
- tools/nut-scanner/scan_ipmi.c: fix whitespace style
- tools/nut-scanner/scan_eaton_serial.c: fix whitespace style
- tools/nut-scanner/scan_avahi.c: fix whitespace style
- tools/nut-scanner/nutscan-serial.c: fix whitespace style
- tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h: tools/nut-scanner/nutscan-ip.c: fix whitespace style
- tools/nut-scanner/nutscan-init.c: fix whitespace style
- tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h: tools/nut-scanner/nutscan-device.[c,h]: fix whitespace style
- tools/nut-scanner/nutscan-display.c: fix whitespace style
- tools/nut-scanner/nut-scanner.c: fix whitespace style
- tools/nut-scanner/nut-scan.h: fix whitespace style
- ci_build.sh: warn that a build without BUILD_TYPE ignores BUILD_WARNOPT and BUILD_WARNFATAL settings
- drivers/generic_modbus.c: fix assignments of sigar[].type to enum

- drivers/generic_modbus.c: drivers/generic_modbus.{c,h}: fix ser_parity to char, and sanity-check before dereferencing
- drivers/generic_modbus.c: fix switch{} warnings
- drivers/generic_modbus.c: fix suseconds_t for time ranges
- drivers/generic_modbus.c: fix warnings with declarations
- drivers/generic_modbus.c, drivers/generic_modbus.h: drivers/generic_modbus.{c,h}: fix whitespace style
- NEWS: added tripplite ability to manage outlet groups for NUT-2.7.5

2.1112 2021-09-22 Yifeng Li <tomli@tomli.me>

- docs/nut.dict: nut.dict: add my name "Yifeng".
- docs/nut.dict: nut.dict: add technical terms for UPS2000 man page.
- docs/man/Makefile.am, docs/man/huawei-ups2000.txt: huawei-ups2000: add documentation.
- drivers/Makefile.am, drivers/huawei-ups2000.c: huawei-ups2000: Modbus driver for Huawei UPS2000 (1kVA-3kVA) This commit implements a Modbus driver for Huawei UPS2000 (1kVA-3kVA) series UPS units using the USB or RS-232 interface (USB is only support on Linux 5.12\+ via the "xr_serial" kernel module), with support for power and battery status monitoring, alarm reporting, RW variables, and instant commands for battery selftest, buzzer, shutdown, restart, and bypass control.

2.1113 2021-09-22 Jim Klimov <jim@jimklimov.com>

- server/sstate.c: fix missed include
- server/conf.c, server/upsd.c, server/upsd.h: server/upsd.c \+ conf.c: align use of nfds_t vs. long (maxconn)
- server/upsd.c: align use of uint8_t when constructing an UUID
- clients/upsclient.c, server/netssl.c: server/netssl.c \+ clients/upsclient.c: fix ssl_error() to use ssize_t "ret"
- server/sstate.c: fix int casting to read() and write(), add range checks for bytes written (size_t/ssize_t)
- clients/upsc.c, clients/upsclient.c, clients/upsclient.h, clients/upscmd.c, clients/upsimage.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, clients/upsset.c, clients/upsstats.c, docs/man/upscli_get.txt, drivers/dummy-ups.c: clients/upsclient.h and numerous *.c: align upscli_get(), upscli_list_start(), upscli_list_next() numa and numq args from "unsigned int" to "size_t", to match PCONF_CTX_t fields
- clients/upsmon.c: fix int casting to read() and write(), add separate retval processing from system()
- clients/upssched.c: fix int casting to read() and write(), add range checks for bytes written (size_t/ssize_t)
- clients/upsclient.c: fix receiver of strtol(), and log a FIXME for sanity checks
- clients/upsmon.c: fix receiver of strtol()
- clients/upssched.c: fix receiver of strtol()
- clients/upsmon.c: fix int type for use of upscli_readline()
- clients/upscmd.c: fix int type for use of upscli_readline()
- clients/upsimage.c: fix int casting
- clients/upsrw.c: fix receiver of strtol()
- drivers/nutdrv_qx.c, server/netset.c: server/netset.c \+ drivers/nutdrv_qx.c: fix consumers of "long" getaux()
- common/str.c: fix buffer int length in str_to_*int*() methods

- common/state.c, include/state.h, server/sstate.c, server/sstate.h: common/state.c \+ server/sstate.c + *.h: aux field is a "long" so getaux() should return long
- common/common.c, include/common.h: common/common.c: fix use of a pid_t value
- tests/cpputest.cpp: avoid "no out-of-line virtual method definitions" (weak-vtables)
- tests/nutclienttest.cpp: tests/nutclienttest.h: avoid "unused exception parameter ex"
- clients/nutclientmem.h: avoid "extra ; after method" warnings
- clients/upsclient.c, configure.ac: clients/upsclient.c \+ configure.ac: fix use of CPU_TYPE
- configure.ac: add "-Wno-cast-qual" to clang-medium and clang-hard warnings levels
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_SIGN_COMPARE and HAVE_PRAGMA_G Sometimes library/system provided types are beyond our control and vary from OS to OS…
- server/sstate.c: whitespace fix
- tests/Makefile.am: comment a TODO for referencing helpers built in other dirs
- docs/nut.dict: updated for recent NEWS and UPGRADING
- UPGRADING: clarified upsdebugx() `[D#]` prefix impact
- UPGRADING: stress that new Qx protocol drivers should be developed in common nutdrv_qx framework
- UPGRADING: Cut-off features that did land into master branch to become the 2.7.5 release, vs. big chunks planned now for later releases
- NEWS: update reference to ChangeLog file vs. Git history
- NEWS: refactored upsdebugx() and friends as macros for NUT-2.7.5
- NEWS: HCL updated with Ippon Back Comfo Pro II 650/850/1050 (USB) for NUT-2.7.5
- NEWS: added and clarified many battery.* protocol variables for NUT-2.7.5
- NEWS: netxml-ups battery info fixed for NUT-2.7.5
- NEWS: HCL updated with Opti-UPS PS1500E (USB) for NUT-2.7.5
- NEWS: referenced Date and Time representations preferred for NUT-2.7.5
- NEWS: added generic_modbus driver for NUT-2.7.5
- NEWS: updated systemd integration for NUT-2.7.5
- NEWS: added autoconf-2.70 update for NUT-2.7.5
- NEWS: added portable Makefile effort for NUT-2.7.5
- NEWS: added incremental "make spellcheck" support for NUT-2.7.5
- NEWS: Cut-off features that did land into master branch to become the 2.7.5 release, vs. big chunks planned now for later releases
- NEWS: added DISABLE_WEAK_SSL for NUT-2.7.5
- docs/config-prereqs.txt: cosmetically update OmniOS notes
- docs/ci-farm-lxc-setup.txt: comment a TODO for NAT setup desired
- docs/ci-farm-lxc-setup.txt: comment why LXC\+LIBVIRT
- docs/ci-farm-lxc-setup.txt, docs/config-prereqs.txt, docs/user-manual.txt: docs/config-prereq.txt \+ ci-farm-lxc-setup.txt \+ user-manual.txt: fix markup so new docs can be chapters in user-manual.html

2.1114 2021-09-21 Jim Klimov <jimklimov@gmail.com>

- drivers/legrand-hid.c: Update legrand-hid.c Address build warnings from CI

2.1115 2021-09-21 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am: try to avoid "warning: ignoring prerequisites on suffix rule definition"
- docs/Makefile.am: when calling a sub-make for *-spellchecked rule, make sure to use the "$(abs_top_builddir)/docs/Makefile" (the original "top_builddir" might come from outer caller in another subdir)
- docs/Makefile.am: move reading of the spellchecked file out of the pipe so errors finding one are exposed to build result
- conf/Makefile.am, data/Makefile.am, docs/Makefile.am, docs/man/Makefile.am: docs/Makefile.am: conjure a portable *-spellchecked rule that works for non-GNU make tools
- docs/Makefile.am: comment about a non-portable GNU Make feature use
- docs/Makefile.am: for no-op *-spellchecked rule, report SKIP-ASPELL with the target (touchfile) name to avoid source-text determination
- docs/Makefile.am: be sure to run the quiet sub-make using docs/Makefile.am to use its target definitions
- docs/Makefile.am: if SPELLCHECK_ENV_DEBUG, report which file we would spellcheck (quiet sub-make might do and report nothing for an already checked text)
- docs/Makefile.am: consider "-spellchecked" among SUFFIXes
- docs/Makefile.am: comment about a non-portable GNU Make feature use
- docs/Makefile.am: try to avoid "warning: ignoring prerequisites on suffix rule definition"
- docs/Makefile.am: when calling a sub-make for *-spellchecked rule, make sure to use the "$(abs_top_builddir)/docs/Makefile" (the original "top_builddir" might come from outer caller in another subdir)
- docs/Makefile.am: move reading of the spellchecked file out of the pipe so errors finding one are exposed to build result
- conf/Makefile.am, data/Makefile.am, docs/Makefile.am, docs/man/Makefile.am: docs/Makefile.am: conjure a portable *-spellchecked rule that works for non-GNU make tools
- docs/Makefile.am: comment about a non-portable GNU Make feature use
- docs/Makefile.am: for no-op *-spellchecked rule, report SKIP-ASPELL with the target (touchfile) name to avoid source-text determination
- docs/Makefile.am: be sure to run the quiet sub-make using docs/Makefile.am to use its target definitions
- docs/Makefile.am: if SPELLCHECK_ENV_DEBUG, report which file we would spellcheck (quiet sub-make might do and report nothing for an already checked text)
- docs/Makefile.am: consider "-spellchecked" among SUFFIXes
- docs/Makefile.am: comment about a non-portable GNU Make feature use

2.1116 2021-09-21 Jim Klimov <jim@jimklimov.com>

- scripts/Solaris/postinstall.in, scripts/Solaris/preremove.in: scripts/Solaris/preremove.in \+ postinstall.in: configure sanity checker likes datarootdir more than datadir
- ci_build.sh: fix reported BUILD_TYPE for default-spellcheck builds
- .gitignore, Makefile.am, conf/Makefile.am, data/Makefile.am, docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, lib/Makefile.am, scripts/augeas/Makefile.am, scripts/ufw/Makefile.am, tools/nut-scanner/Makefile.am: Makefiles: change from *.spellchecked suffix pattern to *-spellchecked which is easier to plug into POSIX make rulesets
- Makefile.am, conf/Makefile.am, configure.ac, data/Makefile.am, docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, lib/Makefile.am, scripts/Makefile.am, scripts/augeas/Makefile.am, scripts/ufw/Makefile.am, tools/nut-scanner/Makefile.am: Makefiles \+ configure.ac: add a way to "make clean" away the *.spellchecked touch-files
- .gitignore, conf/Makefile.am, data/Makefile.am, docs/Makefile.am, docs/man/Makefile.am: Makefiles: mark every spellchecked text file with a touch-file to not re-test it again needlessly (at a cost of some noise for some implementations of make)
- scripts/Solaris/postinstall.in, scripts/Solaris/preremove.in: scripts/Solaris/preremove.in \+ postinstall.in: configure sanity checker likes datarootdir more than datadir
- ci_build.sh: fix reported BUILD_TYPE for default-spellcheck builds
- .gitignore, Makefile.am, conf/Makefile.am, data/Makefile.am, docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, lib/Makefile.am, scripts/augeas/Makefile.am, scripts/ufw/Makefile.am, tools/nut-scanner/Makefile.am: Makefiles: change from *.spellchecked suffix pattern to *-spellchecked which is easier to plug into POSIX make rulesets
- Makefile.am, conf/Makefile.am, configure.ac, data/Makefile.am, docs/Makefile.am, docs/cables/Makefile.am, docs/man/Makefile.am, lib/Makefile.am, scripts/Makefile.am, scripts/augeas/Makefile.am, scripts/ufw/Makefile.am, tools/nut-scanner/Makefile.am: Makefiles \+ configure.ac: add a way to "make clean" away the *.spellchecked touch-files
- .gitignore, conf/Makefile.am, data/Makefile.am, docs/Makefile.am, docs/man/Makefile.am: Makefiles: mark every spellchecked text file with a touch-file to not re-test it again needlessly (at a cost of some noise for some implementations of make)
- docs/nut.dict: update for recent changes
- docs/man/apcsmart.txt, docs/man/generic_modbus.txt: docs/man/apcsmart.txt: fix an indented block
- docs/man/apcsmart.txt, docs/man/generic_modbus.txt: docs/man/generic_modbus.txt \+ apcsmart.txt: drop "[source, conf]" decorators for sample configs and ASCII-art, pygmentize needs much setup to render that
- docs/config-prereqs.txt: add "pygmentize" packages to the list, for HTML rendering of "source" blocks
- docs/man/generic_modbus.txt: import a note from discussion at NUT issue #1056 about the data-path and generic use for the modbus driver
- docs/man/generic_modbus.txt: line-wrap long paragraphs
- tests/nutlogtest.c: fix more fallout from #675
- configure.ac, m4/nut_check_libnss.m4: m4/nut_check_libnss.m4: fix deterministic 32/64 bit builds (on illumos/solaris family of OSes at least)
- ci_build.sh: tweak PKG_CONFIG_PATH setting for 64-bit dirs on illumos/solaris and related operating systems (otherwise pkg-config reports default data, can be for 32-bit libs, on 64-bit hosts)
- ci_build.sh: report detected CI_OS_NAME if we had to guess
- ci_build.sh: for developer workstation use, detect CI_OS_NAME via uname as a fallback (if CI vars are not provided)
- ci_build.sh: recognize CI_OS_NAME from case-insensitive match of "$OS_FAMILY-$OS_DISTRO", and recognize solaris\+sunos
- include/common.h: Fix some fallout from PR #685 * The parenthesized "(label)" in debug macros is a safer expansion than the original "label" * Avoid the dangling "args. . . " that may be not-specified by caller (strict-C99 compat)

- docs/Makefile.am: do not spellcheck ../INSTALL which is generated
- ci_build.sh: run the first spellcheck really quietly
- docs/Makefile.am, docs/nut.dict: docs/Makefile.am \+ docs/nut.dict: add more texts from base dir to spellcheck them too
- docs/Makefile.am: report the directory relative to which spellchecked text sources failed
- Jenkinsfile-dynamatrix: use ci_build.sh to spellcheck with a more user-friendly output
- ci_build.sh: extend the BUILD_TYPE=default-spellcheck to do a quiet round first, and only report details about failed files if needed
- ci_build.sh: fallback BUILD_WARNFATAL=true/false handling; comment values for BUILD_WARNOPT
- docs/man/generic_modbus.txt: some whitespace issues
- m4/nut_type_socklen_t.m4: [NUT issue #1053] m4/nut_type_socklen_t.m4: convert one remaining AC_TRY_COMPILE(H,M,S) into modern AC_COMPILE_IFELSE(AC_LANG_PROGRAM(H,M), S)
- configure.ac: [NUT issue #1053] configure.ac: apply recommendations of "autoupdate" and warnings from "autoconf" for autotools-2.70

2.1117 2021-09-20 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am, docs/ci-farm-lxc-setup.txt: docs/ci-farm-lxc-setup.txt \+ docs/Makefile.am: update some notes and ability to build the new doc
- docs/Makefile.am, docs/ci-farm-lxc-setup.txt: docs/ci-farm-lxc-setup.txt \+ docs/Makefile.am: update some notes and ability to build the new doc

2.1118 2021-09-20 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: update for recently added docs and merged PRs, and update sorting
- docs/config-prereqs.txt: config-prereqs.txt: fix markup to become asciidoc
- docs/ci-farm-lxc-setup.txt: ci-farm-lxc-setup.txt: update with notes for "chroot apt-get" tricks
- docs/ci-farm-lxc-setup.txt: ci-farm-lxc-setup.txt: fix markup to become asciidoc
- docs/config-prereqs.txt: config-prereqs.txt: fix markup to become asciidoc
- tests/.gitignore: GitIgnore test log and trace for "nutlogtest"
- docs/nut.dict: ordering and typo fixes in the dictionary :)
- docs/ci-farm-lxc-setup.txt: ci-farm-lxc-setup.txt: update with notes for "chroot apt-get" tricks
- docs/ci-farm-lxc-setup.txt: ci-farm-lxc-setup.txt: fix markup to become asciidoc

2.1119 2021-09-19 Jim Klimov <jimklimov+nut@gmail.com>

- docs/ci-farm-lxc-setup.txt: Introduce docs/ci-farm-lxc-setup.txt with setup notes
- docs/ci-farm-lxc-setup.txt: Introduce docs/ci-farm-lxc-setup.txt with setup notes

2.1120 2021-09-19 Jim Klimov <jim@jimklimov.com>

- docs/nut-names.txt: refactor the standalone Time and Date format chapter

2.1121 2021-09-17 Jim Klimov <jimklimov@gmail.com>

- Jenkinsfile-dynamatrix: Update Jenkinsfile-dynamatrix Revise pattern for Makefiles and similar
- Jenkinsfile-dynamatrix: Update Jenkinsfile-dynamatrix Do not apply filename regex filtering to main branch builds so they can always serve as a reference
- Jenkinsfile-dynamatrix: Update Jenkinsfile-dynamatrix Remove *default* target as it brings little value: default-tgt:distcheck-valgrind tests the distcheck part, and default-nodoc tests the main recipe with default settings and no distcheck (both skip/disable docs).

2.1122 2021-09-17 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: modularize the way to constrain build scenarios not relevant to the changed files
- Jenkinsfile-dynamatrix: find a way to constrain build scenarios not relevant to the changed files (e.g. no big rebuilds for a docs-only change)

2.1123 2021-09-16 dtsecon <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c: change ulon to uint_32
- drivers/generic_modbus.h: fix forward declarations of enum occurances

2.1124 2021-09-16 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict
- docs/nut.dict: Update nut.dict
- docs/nut-names.txt: Update nut-names.txt Clarified an ambiguity typo about time format, added examples for data with time zones

2.1125 2021-09-15 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict Update for PR #1076
- docs/nut.dict: Update nut.dict Add "FTTx" for PR #1061
- tests/getvaluetest.c: Update getvaluetest.c Include NUT "common.h" for NUT_UNUSED_VARIABLE among other things
- tests/getvaluetest.c: getvaluetest.c: Fixing a NUT_UNUSED_VARIABLE

2.1126 2021-09-15 Jim Klimov <jim@jimklimov.com>

- clients/upsclient.c: upsclient.c: log upscli_init() as a no-op in case of builds without SSL
- clients/upsclient.c: upsclient.c: add NUT_UNUSED_VARIABLE for the stub implem in case of builds without SSL
- server/netssl.c: netssl.c: add NUT_UNUSED_VARIABLE for the stub implem in case of builds without SSL
- Jenkinsfile-dynamatrix: limit default-withdoc(:man) scenarios to not iterate compiler variants, only OSes
- Jenkinsfile-dynamatrix: add a comment with overview of the dynacfgPipeline.slowBuild goals and trade-offs
- Jenkinsfile-dynamatrix: add a groovy shebang for highlighters
- Jenkinsfile-dynamatrix: rephrase some comments and filter bundle names

2.1127 2021-09-14 dtsecon <dimitris.s.economou@gmail.com>

- docs/nut.dict: update nut.dict
- docs/nut.dict: update nut.dic

2.1128 2021-09-13 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: only run and withdocs:man on setups that did not yet run a witdocs:all (and are declared capable of man)
- Jenkinsfile-dynamatrix: remove distcheck-light (sort of pointless WRT other scenarios) and withdocs:man (redundant) from "various builds"
- Jenkinsfile-dynamatrix: comment that "default-all-errors" builds do not include docs and distcheck
- Jenkinsfile-dynamatrix: add "default-alldrv:no-distcheck" variant
- ci_build.sh: add "default-alldrv:no-distcheck" variant
- ci_build.sh: comment "default-all-errors" builds with varying SSL implementations and refactor into a loop and case Should be helftul for https://github.com/networkupstools/jenkins-dynamatrix/issues/4 eventually
- ci_build.sh: comment the case BUILD_TYPE to maintain easier

2.1129 2021-09-12 Jim Klimov <jimklimov+nut@gmail.com>

- Jenkinsfile-dynamatrix: reduce the amount of build combos by careful use of dynamatrixAxesCommonEnv

2.1130 2021-09-11 Jim Klimov <jimklimov+nut@gmail.com>

- tests/cpputest.cpp: add an optional verbose mode to list executed test case names
- configure.ac: ci_build.sh: actively check that cppunit is not just installed, but is usable with current compiler toolkit (we saw linking issues and runtime segfaults with it)
- ci_build.sh: update a comment for OpenIndiana gcc-4.x vs. libgd
- ci_build.sh: skip CGI builds for openindiana with gcc-4.x (or older, preemptively) for now
- ci_build.sh: update constraints for libgd/cgi builds on freebsd
- ci_build.sh: fix --disable-cppunit (not --without-cppunit)

2.1131 2021-09-11 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: constrain autotools builds to "**fightwarn**" branches and PRs

2.1132 2021-09-01 Arnaud Quette <arnaud.quette@gmail.com>

- drivers/eaton-pdu-marlin-mib.c, drivers/powerware-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: Add a generic function to convert date (#1078) This provides conversion from US date (mm/dd/yyyy) to ISO Calendar date (yyyy-mm-dd). Also adapt the function callback mechanism to make it more generic, and only char* to char* reformating, beside from the int to char* value lookup. Co-authored-by: Jim Klimov <jim@jimklimov.com>

2.1133 2021-08-27 Jim Klimov <jim@jimklimov.com>

- docs/config-prereqs.txt: note caveats about installing cppunit and gcc-4.4.4 on OpenIndiana

2.1134 2021-08-23 Arnaud Quette <ArnaudQuette@eaton.com>

- docs/nut-names.txt: Complete the date standardization proposal for time

2.1135 2021-08-20 Arnaud Quette <ArnaudQuette@eaton.com>

- docs/nut-names.txt: Propose to express dates using ISO 8601 when possible

2.1136 2021-08-19 Stephan Blecher <_github@blecher.at>

- drivers/legrand-hid.c: issue-616: legrand 600 fix input voltage

2.1137 2021-08-18 root <root@proxima2.blecher.at>

- scripts/upower/95-upower-hid.rules: legrand hid rules update

2.1138 2021-08-12 Arnaud Quette <arnaud.quette@gmail.com>

- drivers/mge-xml.c: netxml-ups: fix for erroneous battery info (MGEXML/0.30) (#1069) Some battery related information were wrongly using output information
- docs/nut-names.txt: RFC: clarify and complete battery dates (#1063) The existing battery.date means the installation or last replacement date, as it seems to be implemented by various drivers. Add an additional battery.date.maintenance for the next replacement or maintenance date
- docs/nut-names.txt: Extend battery information collection (#1062)
- RFC: Add battery.capacity.nominal * RFC: add Li-ion battery cell information * RFC: Add battery.status * Clarify Li-ion battery cell information Mention that min/max cell voltage and temperature are observed values, not settings
- docs/nut-names.txt: RFC: add new variable battery.packs.external (#1060) * RFC: add new variable battery.packs.external * Improve wording, as per Charles Lepple feedback * Improve example values, which can or not be zero-padded

2.1139 2021-08-11 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: revise use of requiredNodelabels/excludedNodelabels, and reset them to surely delete any cached values in the reusable dynamatrix object
- Jenkinsfile-dynamatrix: keep docs builds to the standard set of builders (nut-builder not doc-builder)

2.1140 2021-08-10 Jim Klimov <jim@jimklimov.com>

- Jenkinsfile-dynamatrix: use a custom-named dynacfgPipeline.stashnameSrc
- Jenkinsfile-dynamatrix: neuter the example buildCommit
- Jenkinsfile-dynamatrix: Revert "Jenkinsfile-dynamatrix: list the custom commits built on new NUT CI for initial history" This reverts commit c9b5c870ac6834f16ebecb5334ac178de2d03d3d. Have that list in history but do not clutter live version.
- Jenkinsfile-dynamatrix: list the custom commits built on new NUT CI for initial history
- Jenkinsfile-dynamatrix: revise docs-all build spec
- Jenkinsfile-dynamatrix: modernize example for custom replayed builds

2.1141 2021-08-07 Jim Klimov <jim@jimklimov.com>

- docs/config-prereqs.txt: suggest installing valgrind where available

2.1142 2021-08-04 Jim Klimov <jim@jimklimov.com>

- docs/config-prereqs.txt: suggest installing source-highlight where available
- ci_build.sh: double-quote path var expansions
- ci_build.sh: detect build agent capabilities for Jenkins builds with NUT dynaMatrix config
- ci_build.sh: abstract from TRAVIS_OS_NAME to CI_OS_NAME and set one for Jenkins builds with NUT dynaMatrix config

2.1143 2021-08-03 Jim Klimov <jimklimov@gmail.com>

- configure.ac: hack around libtool when building with custom bitness

2.1144 2021-08-03 Jim Klimov <jim@jimklimov.com>

- clients/nutclient.h, clients/nutclientmem.cpp, clients/nutclientmem.h: clients/nutclient.h \+ nutclientmem.h/.cpp: add NUT_UNUSED where needed
- drivers/libshut.h: define the Device field recently added to USBDevice_t
- drivers/usbhid-ups.c: initialize the recently added USBDevice_t Device field
- drivers/nutdrv_qx_masterguard.c: fix the switch-case fallthrough that should not be (the case of "s" is handled lower in the routine, so instant return is not logical)
- drivers/nutdrv_qx_masterguard.c: complete the item_t initializers
- drivers/nutdrv_qx_masterguard.c: be explicit about NUT_UNUSED_VARIABLEs
- docs/nut.dict: docs/config-prereqs.txt: list prerequisites for at least a minimal build in OmniOS CE - update spellchecker
- docs/config-prereqs.txt: list prerequisites for at least a minimal build in OmniOS CE
- docs/config-prereqs.txt: document libtool as a prerequisite
- Jenkinsfile-dynamatrix: define autotools-based distcheck for NUT
- Jenkinsfile-dynamatrix: define autotools-based distcheck for NUT
- Jenkinsfile-dynamatrix: explicitly exclude openindiana from build scenario with all docs types
- Jenkinsfile-dynamatrix: typo fix (require*d*Nodelabels after upstream refactor)
- m4/nut_compiler_family.m4: do not pass "-Wno-unknown-warning" to GCC
- m4/nut_check_libavahi.m4: PoC enable avahi build in FreeBSD - rearrange

2.1145 2021-08-02 Jim Klimov <jim@jimklimov.com>

- docs/config-prereqs.txt: revise installation of supported shell interpreters
- docs/config-prereqs.txt: add en-aspell for freebsd profile
- Jenkinsfile-dynamatrix: Revert "Jenkinsfile-dynamatrix: try to synchronize cloning of dsbcClone\+stageNameClone" This reverts commit 2d477fac1c67f7a8477c550f1e5a638e533ab2ad : "synchronized" is not supported for Jenkins Groovy CPS
- Jenkinsfile-dynamatrix: try to synchronize cloning of dsbcClone\+stageNameClone
- Jenkinsfile-dynamatrix: define dsbcClone\+stageNameClone closer to start of closure to get the correct copy ASAP
- Jenkinsfile-dynamatrix: add SERVICE_FRAMEWORK="selftest" to shellcheck-nde (equivalent)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in: check for not-supported (t)csh interpreter
- Makefile.am: add SERVICE_FRAMEWORK="selftest" to shellcheck-nde
- Makefile.am: add shellcheck-nde
- Makefile.am: fix shellcheck (not all OSes serve /bin/bash at that pathname)

2.1146 2021-08-01 Jim Klimov <jim@jimklimov.com>

- docs/Makefile.am, docs/config-prereqs.txt, docs/nut.dict, docs/packager-guide.txt, docs/user-manual.txt: Introduce docs/config-prereqs.txt and spellcheck for it
- Jenkinsfile-dynamatrix: Introduce Jenkinsfile-dynamatrix

2.1147 2021-07-31 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut_check_libavahi.m4: PoC enable avahi build in FreeBSD
- m4/nut_check_libneon.m4: FreeBSD installs stuff under /usr/local

2.1148 2021-07-28 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: report CONFIGURING NUT in a way friendlier for copy-paste
- configure.ac, m4/nut_compiler_family.m4: configure.ac \+ m4/nut_compiler_family.m4: introduce NUT_COMPILER_FAMILY_FLA to propagate -Wno-unknown-warning(-opton) before any pkgconfig
- docs/man/Makefile.am: Fix check-man-txt to also run from separate build dirs
- ci_build.sh: do not make TOO MUCH noise when dumping config.log
- ci_build.sh: set DISTCHECK_FLAGS in "default-tgt:"* handling too
- data/driver.list.in: list Ippon Back Comfo Pro II 650/850/1050 as supported by blazer_usb [#1035]

2.1149 2021-07-27 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: introduce BUILD_TYPE=default-withdoc:man (and allow it)
- .gitignore: GitIgnore CI-generated log files
- ci_build.sh: introduce BUILD_TYPE=default-withdoc:man
- ci_build.sh: make sure DISTCHECK_FLAGS is single-line
- configure.ac: tell compiler to not choke on unknown options

2.1150 2021-07-26 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: parameterize $MAKE
- ci_build.sh: try to avoid problems with multi-token CFLAGS etc. when passed from "${CONFIG_OPTS[@]}" array into DISTCHECK_CONFIGURE_FLAGS string (envvar) - refactor

2.1151 2021-07-22 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: try to avoid problems with multi-token CFLAGS etc. when passed from "${CONFIG_OPTS[@]}" array into DISTCHECK_CONFIGURE_FLAGS string (envvar)

2.1152 2021-07-21 dtsecon <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c, drivers/generic_modbus.h: shutdown configurable repetition with increasing time interval added

2.1153 2021-07-20 Jim Klimov <jim@jimklimov.com>

- common/common.c: avoid C+\+ style comments
- configure.ac: detect if i2c library is usable, and cancel i2c driver build if it is not

2.1154 2021-07-19 dtsecon <dimitris.s.economou@gmail.com>

- configure.ac, docs/Makefile.am, docs/man/Makefile.am: fix man pages broken build process

2.1155 2021-07-16 dtsecon <dimitris.s.economou@gmail.com>

- docs/man/generic_modbus.txt: improve man page
- docs/man/Makefile.am, docs/man/generic_modbus.txt: man page text created, added in build procedure

2.1156 2021-07-08 dogtopus <dogtopus@users.noreply.github.com>

- docs/man/genericups.txt, drivers/genericups.h: genericups: Change type 23 to be active low. Seems that typical RS232 transceivers inverts the signal automatically anyway, so there's no point of making them active high by default.

2.1157 2021-07-06 dtsecon <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c, drivers/generic_modbus.h: fix serial options in modbus_open
- drivers/generic_modbus.c: fix *for* loop initial declarations for compatibility out of C99 mode
- drivers/Makefile.am: generic_modbus.h added to Makefile.am
- drivers/generic_modbus.c: just one space less

2.1158 2021-07-06 dogtopus <dogtopus@users.noreply.github.com>

- docs/man/genericups.txt: docs: Document the special line NULL in genericups documentation.
- drivers/genericups.c: genericups: Bump version number.
- docs/contact-closure.txt, docs/man/genericups.txt, drivers/genericups.c, drivers/genericups.h: genericups: Add support for FTTx battery backup. A lot of those "UPSes" use a 4-wire open-drain-like contact closure signaling (dubbed "telemetry interface") to report their status (see https://dl4jz3rbrsfum.cloudfront.net/documents/CyberPower_UM_CBN50U48A-1.pdf for example). They are sorta compatible with APC 940-0020B/C cables in terms of pin assignments, with extra signals for replace battery and battery missing and lack of shutdown signal. This patch adds a sample device type (23) for this kind of device. It also adds support for the extra signal types (RB for replace battery and BYPASS for disconnected battery) used by these devices, as well as an option to unassign/disable an unused signal in the config file by setting it to NULL. Note that there is no standard cable for this kind of device, so type 23 assumes RS232 control signaling and RTS as the voltage source for input pin pullups.

2.1159 2021-06-30 Nick Briggs <nicholas.h.briggs@gmail.com>

- tests/.gitignore, tests/Makefile.am, tests/getvaluetest.c: Create test harness for GetValue() report value extraction (usbhid-ups) Adds source and updates Makefile.am to build tests/getvaluetest, a test harness for the report value extraction function GetValue() in hidparser.c. getvaluetest has some built-in test cases, which are easily extensible, but also accepts a single test specification on the command line to allow for easy experimentation. getvaluetest -h for usage

2.1160 2021-06-30 Jim Klimov <jim@jimklimov.com>

- NEWS: mention `experimental.*` namespace
- NEWS: mention that master/slave deprecation did not impact protocol currently
- NEWS: mark libusb-1.0 support in main branch as "expected" currently
- scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in: systemd/*.service(.in): update units with SyslogIdentifier=%N The log identifier should hopefully help make more sense of syslog or journal entries where helper shell script traces might end up.

2.1161 2021-06-29 Dimitris Economou <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c: minor changes to comply with nut development guidelines
- drivers/generic_modbus.c: variable ctx changed to mbctx

2.1162 2021-06-26 Jim Klimov <jim@jimklimov.com>

- Makefile.am, configure.ac: configure.ac: follow autotools doc recommendation to automatically update the libtool script if it becomes out-of-date
- configure.ac: AC_PROG_LIBTOOL is noisily deprecated since autotools-2.70; LT_INIT is the replacement
- m4/nut_arg_with.m4: AC_HELP_STRING is noisily deprecated since autotools-2.70; AS_HELP_STRING is available since 2.59 and we use it already a lot elsewhere

2.1163 2021-06-25 dtsecon <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c: removing unnecessary code
- drivers/generic_modbus.c: time_ellapsed fixed

2.1164 2021-06-25 abratchik <alexbratchik@yandex.com>

- drivers/Makefile.am, drivers/arduino-hid.c, drivers/arduino-hid.h, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.rules: Arduino UPS Support

2.1165 2021-06-24 dtsecon <dimitris.s.economou@gmail.com>

- drivers/generic_modbus.c: minor changes and tidying up
- drivers/generic_modbus.c: remove unnecessary stuff
- drivers/generic_modbus.c, drivers/generic_modbus.h: initial commit of generic_modbus beta version source files
- drivers/Makefile.am: generic_modbus sources add in buidling procedure

2.1166 2021-06-22 Tom Fifield <tom@tomfifield.net>

- data/driver.list.in: Opti-UPS PS1500E is supported by blazer_usb Opti-UPS PS1500E connects via serial over USB, and is supported by the blazer_usb driver. This patch updates the compatibility list. Manufacturer link: https://www.opti-ups.com/-index.asp?SCID=SC20060001 Device is automatically detected by nut-scanner > [nutdev1] > driver = "blazer_usb" > port = "auto" > vendorid = "0665" > productid = "5161" > bus = "001" OB status is correctly detected, and other correct values are displayed when queried: battery.charge: 100 battery.voltage: 27.60 battery.voltage.high: 26.00 battery.voltage.low: 20.80 battery.voltage.nominal: 24.0 device.mfr: device.model: 1500VA device.type: ups driver.name: blazer_usb driver.parameter.bus: 001 driver.parameter.pollinterval: 2 driver.parameter.port: auto driver.parameter.productid: 5161 driver.parameter.synchronous: no driver.parameter.vendorid: 0665 driver.version: 2.7.4 driver.version.internal: 0.12 input.current.nominal: 13.0 input.frequency: 60.0 input.frequency.nominal: 60 input.voltage: 113.9 input.voltage.fault: 111.4 input.voltage.nominal: 110 output.voltage: 113.3 ups.beeper.status: enabled ups.delay.shutdown: 30 ups.delay.start: 180 ups.firmware: ups.load: 2 ups.mfr: ups.model: 1500VA ups.productid: 5161 ups.status: OL ups.type: offline / line interactive ups.vendorid: 0665

2.1167 2021-06-18 Scott K Logan <logans@cottsay.net>

- drivers/tripplite.c: start using the *X* value Relatively ancient documentation seems to suggest that this *firmware checksum* value can be used to indicate the firmware generation as well as the capabilities of the UPS, namely the number of independently controllable plugs.

2.1168 2021-06-16 Nick Briggs <nicholas.h.briggs@gmail.com>

- drivers/hidparser.c: Add note regarding sensitivity to 32- vs 64- bit compilation and overflow

2.1169 2021-06-14 Doug Nazar <nazard@nazar.ca>

- server/netssl.c: server: Add warning if DISABLE_WEAK_SSL is not enabled.
- Makefile.am, conf/Makefile.am, data/Makefile.am, docs/Makefile.am, docs/man/Makefile.am: Fix spellcheck to also run from separate build dirs

2.1170 2021-06-14 Clappier, Eric <EricClappier@Eaton.com>

- drivers/powerware-mib.c, drivers/snmp-ups.c: Add missing outlet objects for master

2.1171 2021-06-12 abratchik <alexbratchik@yandex.com>

- docs/FAQ.txt, drivers/libusb.c, drivers/libusb.h, drivers/powervar-hid.c: HID-compliant UPS support with interface gt than 0

2.1172 2021-06-12 Jim Klimov <jimklimov@gmail.com>

- server/netssl.c: Update netssl.c Comment the default value of `disable_weak_ssl` (currently not getting in our way, but can change later)
- server/netssl.c: Update netssl.c Slight pedantic fix for use of NSS VMAJOR/VMINOR macros
- server/conf.c: Update conf.c Comment parse_boolean() and add support for "0" and "1" string values there, for good measure
- conf/upsd.conf.sample: Update upsd.conf.sample Mention that DISABLE_WEAK_SSL is "currently" disabled by default, hinting that it can become enabled after some releases.
- docs/nut.dict: Update nut.dict Add "TLSv"<number> support in spellchecker

2.1173 2021-06-12 Jim Klimov <jim@jimklimov.com>

- docs/nut-names.txt: add the note about RFC Recording Document
- docs/nut-names.txt: reword the intro paragraphs and define the "experimental.*" namespace
- docs/FAQ.txt: FAQ.txt: make it easier to find suggestions for missing "battery.charge.restart" workarounds

2.1174 2021-06-11 Doug Nazar <nazard@nazar.ca>

- conf/upsd.conf.sample, server/conf.c, server/netssl.c, server/netssl.h: server: Add option to disable weak SSL protocols/ciphers.

2.1175 2021-06-02 Nick Briggs <nicholas.h.briggs@gmail.com>

- drivers/hidparser.c: Fix GetValue() to correctly extract values from a report when compiled in LP64 mode Changes the strategy for removing potential garbage bits from values extracted from a report. Use the LogMin and LogMax fields to drive which bits are meaningful but avoid confusion when, for example, given a range of -1..2147483647

2.1176 2021-05-30 Jim Klimov <jim@jimklimov.com>

- configure.ac: bugfix - populate systemdtmpfilesdir in its option, not systemdshutdowndir
- configure.ac: do not make noise with yet empty systemdtmpfilesdir
- configure.ac: process other values for systemdshutdowndir option
- configure.ac: just in case, double-quote to single-tokenize detected systemd related options
- configure.ac: update comments for systemd related options

2.1177 2021-05-28 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: nut.dict: add new words for nut-website
- configure.ac: improve reporting of systemd options processing
- autogen.sh, configure.ac, scripts/systemd/.gitignore, scripts/systemd/nut-common.tmpfiles.in: configure.ac: generate scripts/systemd/n common.in based on current config
- configure.ac: typo fix in comment
- Makefile.am, configure.ac, docs/configure.txt, docs/nut.dict, scripts/systemd/.gitignore, scripts/systemd/Makefile.am, scripts/systemd/ common.tmpfiles.in: [Issue #1030] Deliver systemd-tmpfiles config to pre-create runtime locations

2.1178 2021-05-25 Jim Klimov <jim@jimklimov.com>

- NEWS: added nutdrv_qx "phoenixtec" subdriver in NUT-2.7.5
- docs/images/ci/fosshost.org_Host_Light_309px.png, docs/images/ci/fosshost.org_Host_Light_38px.png: docs/image/ci: add more Fosshost logos tuned to be readable at smaller height

2.1179 2021-05-24 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict Update dict for PR #975
- docs/man/nutdrv_qx.txt: Update nutdrv_qx.txt Our accepted terminology is for multiple "UPSes" not "UPSen", however questionable the language might be
- drivers/nutdrv_qx.c: Update nutdrv_qx.c Bump version due to addition of `phoenixtec_command()`
- drivers/nutdrv_qx.c: Update nutdrv_qx.c Pre-initialize "e = NULL" in phoenixtec_command(), we do not set it from `memchr()` later in all cases.
- drivers/nutdrv_qx_masterguard.c: Update nutdrv_qx_masterguard.c Add #include <stddef.h>
- drivers/powerpanel.h: Update powerpanel.h Define a subdriver_t for driver version (modifiable) vs type (bin/txt)
- drivers/powerp-txt.c: Update powerp-txt.c Fix subdriver type vs subdriver version
- drivers/powerp-bin.c: Update powerp-bin.c Track subdriver version
- drivers/powerp-txt.c: Update powerp-txt.c Introduce versioning
- drivers/cyberpower-mib.c: Update cyberpower-mib.c Update reported driver version after the bump
- drivers/cyberpower-mib.c: Update cyberpower-mib.c Handle "battery.voltage" and "battery.current" readings for different MIB revisions
- drivers/nutdrv_qx.c: Update nutdrv_qx.c Formatting and slight rewording of a comment

2.1180 2021-05-24 Jim Klimov <jim@jimklimov.com>

- NEWS: added powerpanel driver support for CyberPower OR1500LCDRTXL2U in NUT-2.7.5
- NEWS: added TcpClient C+\+ testing mock for NUT-2.7.5
- NEWS: improved USB HID parsing for NUT-2.7.5
- NEWS: improved USB device matching for NUT-2.7.5
- NEWS: microsol-apc added for NUT-2.7.5
- lib/.gitignore: GitIgnore generated lib/libnutclientstub.pc
- drivers/usb-common.h: better comment "the 5 pieces of information by which a USB device identifies itself"
- drivers/usb-common.h: move the recently added USBDevice_t Device field to the end, for a bit of cross-version binary compatibility
- docs/man/blazer-common.txt, docs/man/nutdrv_qx.txt, docs/man/tripplite_usb.txt, docs/man/usbhid-ups.txt: Docs: rephrase Note for "device" option in USB drivers

2.1181 2021-05-20 Denis Yurin <d.jurin@gmail.com>

- drivers/powercom-hid.c: add temperature readings for Powercom MRT-3000 add temperature readings support for Powercom MRT-3000

2.1182 2021-05-18 Clappier, Eric <EricClappier@Eaton.com>

- tests/nutclienttest.cpp: Fix typo

2.1183 2021-05-18 Alexey Kazancev <ruskazancev@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx.c: bump version to 0.31
- drivers/nutdrv_qx.c: nutdrv_qx.c: add batt.volt.act validation Some UPS return zero batt voltage after communication error. This validation must fix wrong runtime calculation.
- drivers/nutdrv_qx.c: nutdrv_qx.c: fix snr_command communication error in protocol matching phase.

2.1184 2021-05-17 Clappier, Eric <EricClappier@Eaton.com>

- clients/nutclientmem.cpp, clients/nutclientmem.h, tests/nutclienttest.cpp: Take into account pull request remarks

2.1185 2021-05-07 Clappier, Eric <EricClappier@Eaton.com>

- drivers/bcmxcp_ser.c: Fix coverity test issue
- tests/nutclienttest.cpp: Try fixing coverity test issue
- clients/Makefile.am, configure.ac, lib/Makefile.am, lib/libnutclientstub.pc.in, tests/Makefile.am: Separate lib for stub

2.1186 2021-05-06 Alexey Kazancev <ruskazancev@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx.c: bump version to 0.30

2.1187 2021-05-05 Clappier, Eric <EricClappier@Eaton.com>

- tests/nutclienttest.cpp: Add tests in cppunit
- clients/Makefile.am: Fix missing header

2.1188 2021-05-04 Clappier, Eric <EricClappier@Eaton.com>

- clients/Makefile.am, clients/{nutclientmock.cpp ⇒ nutclientmem.cpp}, clients/{nutclientmock.h ⇒ nutclientmem.h}, tests/nutclienttest.cpp: Rename class Fix cppunit test Add typedef for map
- clients/nutclientmock.cpp: Fix indentation
- clients/Makefile.am, clients/nutclient.cpp, clients/nutclient.h, clients/nutclientmock.cpp, clients/nutclientmock.h: Separate NutClientMock class
- clients/nutclient.cpp, clients/nutclient.h, tests/nutclienttest.cpp: Add mock for TcpClient

2.1189 2021-04-26 Jim Klimov <jim@jimklimov.com>

- docs/man/dummy-ups.txt: dummy-ups.txt: mention the DDL and nut-ddl-dump.sh
- drivers/Makefile.am: fix truncated comment Text originates from SVN-Git migration in e8e716e0598158f705e060c72f8f4b0444fbcd0

2.1190 2021-04-26 Alexey Kazancev <ruskazancev@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx.c: add correction of runtime estimation

2.1191 2021-04-23 Jim Klimov <jimklimov@gmail.com>

- drivers/ever-hid.c: Update ever-hid.c Make and comment the macro for ST Microelectronics vendor id (to generate udev data, etc. properly)
- drivers/ever-hid.c: Update ever-hid.c Lowercase the hex in vendor ID macro, for consistency

2.1192 2021-04-23 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: docs/nut.dict \+ NEWS: fix both to pass spellcheck
- NEWS, docs/nut.dict: docs/nut.dict \+ NEWS: fix both to pass spellcheck
- drivers/nutdrv_qx.c: fabula_hunnox_subdriver(): annotate NUT_UNUSED_VARIABLE(device) arg
- drivers/delta_ups-hid.c: fix initialization of delta_ups_type_info[]
- drivers/delta_ups-hid.c: fix initialization of delta_ups_type_info[]
- drivers/nutdrv_qx.c: fabula_hunnox_subdriver(): annotate NUT_UNUSED_VARIABLE(device) arg
- drivers/usbhid-ups.c: order includes and subdrivers alphabetically
- drivers/usbhid-ups.c: order includes and subdrivers alphabetically
- clients/nutclient.cpp, clients/nutclient.h: clients/nutclient.{h,cpp}: explicitly request assignment operator generation for exception classes
- drivers/bestfortress.c: fix back setparam() arg type
- drivers/delta_ups-mib.c: delta-mib.c: rename onbatt_info lookup table in commented-away code sample (and match naming pattern with other tables)
- drivers/delta_ups-hid.c: typo in comment
- drivers/nutdrv_qx.c: comment that Vendor ID 0x0483 is from ST Microelectronics

2.1193 2021-04-22 Nick Briggs <nicholas.h.briggs@gmail.com>

- drivers/hidparser.c: correct *for* loop initial declarations are only allowed in C99 or C11 mode
- drivers/hidparser.c: Extract values in HIDParse correctly when compiled in 64-bit (LP64) mode Reworks the conversion of bytes in little-endian order to host order to operate independently of the sizeof(long) and the byte-order of the host system. The extracted value is stored as uint32_t as the code already performs casts to signed/unsigned of varying sizes as appropriate to the context of use.

2.1194 2021-04-21 Jim Klimov <jim@jimklimov.com>

- NEWS: Add 2.7.5 support for Tripplite AVR750U
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: sync polling frequencies
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: remove (read-only) mappings for ups.delay* in favor of same points polled for ups.timer*

- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: comment away ups.mfr/model/serial setting per PR comments
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: set voltage/current/frequency precision to %.1f same for all entries
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: set battery.charge* precision to %.0f same for all entries
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: import delta_ups_hid2nut[] entries "as is"
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: import Helper lookup tables and mapping functions from master
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: change delta_ups_hid2nut[] content order by names to be same as in master
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: import named delta_ups_usage_lkp[] content from master
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: import delta_ups_format_model() content from master
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: move delta_ups_format_model() to same position as in master
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: indentations in delta_ups_claim()
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: indentations in delta_ups_hid2nut[]
- drivers/delta_ups-hid.c: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: indentations in delta_ups_usage_lkp[]
- drivers/delta_ups-hid.c, drivers/delta_ups-hid.h: drivers/delta_ups-hid.c/.h: sync PR #807 code with master branch: rename delta ⇒ delta_ups, sync comments
- drivers/Makefile.am, drivers/{delta-hid.c ⇒ delta_ups-hid.c}, drivers/{delta-hid.h ⇒ delta_ups-hid.h}, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.rules: Rename delta-hid.c/.h to delta_ups-hid.c/.h and sync vendor label for USB [#807]

2.1195 2021-04-21 Edgar Fuß <ef@math.uni-bonn.de>

- drivers/nutdrv_qx.c: Correct format string size_t is unsigned, so use %zu (not %zd) in upsdebug() format string.
- drivers/nutdrv_qx.c: Remove vis-dependent debugging code Remove (level 4) debugging code in the phoenixtex/masterguard USB subdriver that depends on the BSD strvis() family for visual string formatting.

2.1196 2021-04-20 Ygor Amadeo Sartori Regados <ygorre@tutanota.com>

- docs/man/microsol-apc.txt: Man page compilation error fixes
- docs/man/Makefile.am, docs/man/microsol-apc.txt: Added man page
- drivers/microsol-apc.c, drivers/microsol-common.h: Fix: wrong operator and unused function
- drivers/microsol-apc.c, drivers/microsol-apc.h: Fixed driver name

2.1197 2021-04-20 Jim Klimov <jimklimov@gmail.com>

- drivers/delta-hid.c: Update delta-hid.c Sync the vendor-name comment (for udev generation among others) with another Delta HID driver merged to master recently.
- docs/nut.dict: Update nut.dict Updated for PR #994
- drivers/microsol-apc.c: Update microsol-apc.c In upsdrv_info, split contributors one per line for better source readability
- docs/nut.dict: Update nut.dict Some more keywords to the dictionary from PR #638

2.1198 2021-04-20 Jim Klimov <jim@jimklimov.com>

- NEWS: List more achievements of 2.7.5
- drivers/delta_ups-hid.c, scripts/upower/95-upower-hid.rules: 95-upower-hid.rules: regenerate for idVendor=05dd (Delta UPS)
- docs/documentation.txt: add a section on reporting Data dumps for the DDL
- docs/man/nutdrv_qx.txt: fix copy-paste typo
- drivers/nutdrv_qx.c: fix back the name for "fabula_hunnox_subdriver" (USB protocol subdriver vs. "hunnox_subdriver" for device data mapping)
- drivers/nutdrv_qx.c: bump core DRIVER_VERSION to reflect changes from PR #638 for "hunnox" support
- docs/man/nutdrv_qx.txt, drivers/nutdrv_qx.c: drivers/nutdrv_qx.c: simplify new subdriver/command naming from "fabula-hunnox" to "hunnox"
- drivers/nutdrv_qx.c: restore indentation with TABs
- drivers/nutdrv_qx.c: fabula_command_hunnox(): comment about truncating the buflen to 102 bytes
- drivers/nutdrv_qx.c: fabula_command_hunnox(): comment away scoping for (and use of) "hunnox_patch" leaving the markers in comments for refactoring
- drivers/nutdrv_qx.c: comment that fabula_hunnox_subdriver was reported to support more than Hunnox branded devices
- drivers/nutdrv_qx.c: fabula_command_hunnox(): restore originally PRed choice of usb_get_string{,_simple}() based on langid_fix alone
- drivers/nutdrv_qx.c: separate fabula_command_hunnox() from fabula_command() without using a mixed routine, to ensure no impact on currently supported devices
- docs/nut.dict: typo fix

2.1199 2021-04-19 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict Update dictionary for Hunnox PR #638
- docs/man/nutdrv_qx.txt: Update nutdrv_qx.txt Basically mention updates from Hunnox subdriver and protocol addition (PR #638).
- drivers/nutdrv_qx.c: Update nutdrv_qx.c Err on the safer side of changing behavior for non-hunnox device support, limit the applicability of langid_fix (per PR #638 review cautionary comments). Maybe the proposed original change did apply to other devices that support the fix-up, but that should be evaluated separately and this new constraint reversed if needed.
- drivers/nutdrv_qx_hunnox.c: Update nutdrv_qx_hunnox.c Updated file heading
- drivers/nutdrv_qx_hunnox.h: Update nutdrv_qx_hunnox.h Updated file heading

2.1200 2021-04-10 Jim Klimov <jim@jimklimov.com>

- docs/images/advanced.png, docs/images/bizarre.png: Vox populi: replace master by primary and slave by secondary in documentation images [#840]

2.1201 2021-04-09 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict Missed a couple of new dictionary words
- docs/nut.dict: Update nut.dict Added "snr" and "SNR" to spellchecker dictionary

2.1202 2021-04-09 Jim Klimov <jim@jimklimov.com>

- drivers/metasys.c: fix SIZE_MAX comparison
- drivers/metasys.c: fix %zd printing of ssize_t res
- docs/images/ci/fosshost.org_Host_Dark_56px.png, docs/images/ci/jenkins-nut-large-256px.png, docs/images/ci/jenkins-nut-large-squared.png, docs/images/ci/jenkins-nut-large.pdn, docs/images/ci/jenkins-nut-large.png, docs/images/ci/jenkins-nut-small-256px.png, docs/images/ci/jenkins-nut-small.pdn, docs/images/ci/jenkins-nut-small.png, docs/images/ci/jenkins-nut-squared.png, docs/images/ci/jenkins-nut-transparent-bg-40px.png, docs/images/ci/jenkins-nut-transparent-bg.png, docs/images/ci/jenkins-nut.css, docs/images/ci/jenkins-nut.png, docs/images/ci/jenkins-nut.txt: Add image and CSS resources used in new Jenkins CI [#869]

2.1203 2021-04-09 Alexey Kazancev <ruskazancev@gmail.com>

- drivers/nutdrv_qx.c: add overflows protection for snr subdriver
- docs/acknowledgements.txt: add NAG at manufacturer list
- data/driver.list.in: add various SNR-UPS-LID-XXXX UPSes supported by nutdrv_qx Protocol: *megatec* USB subdriver: *snr*
- docs/man/nutdrv_qx.txt: update man page for new *snr* USB subdriver
- drivers/nutdrv_qx.c: add new *snr* USB subdriver to support SNR-UPS-LID units

2.1204 2021-04-08 Jim Klimov <jim@jimklimov.com>

- docs/man/Makefile.am: Update Makefile.am Beside exactly "troff" some systems have other "*roff" family tools and formats

2.1205 2021-04-07 Jim Klimov <jimklimov@gmail.com>

- configure.ac: satisfy both builders that have pkg-config installed and those who do not
- configure.ac: avoid syntax errors if pkg-config is not installed

2.1206 2021-04-06 Aaron Thompson <dev@aaront.org>

- drivers/powercom.c: Fix a small error in output voltage for KIN models.

2.1207 2021-03-31 Jim Klimov <jim@jimklimov.com>

- drivers/metasys.c: protect failsafe logic from compiler warnings with pragmas
- drivers/metasys.c: upsdrv_initinfo(): pedantic and stylistic fixes
- drivers/metasys.c: upsdrv_initinfo(): sanity-check that reply was big enough to have a serial number, and then cast for memcpy()
- drivers/metasys.c: get_answer(): rectify var types to avoid signedness and range warnings
- drivers/metasys.c: fix arg type for send_read_command() to avoid signedness mismatches
- drivers/metasys.c: refactor a get_word_float() to simplify code
- drivers/metasys.c: fix fixed-width integers for get_word()/get_long() or cast meaningfully where needed
- drivers/bcmxcp.c: cast the bytes when constructing "cbuf[]"s element by element
- drivers/bcmxcp.c: instcmd(): cast use of sddelay to avoid signedness warnings
- drivers/bcmxcp.c: upsdrv_initinfo(): buf is size_t by usage
- drivers/bcmxcp.c: upsdrv_initinfo(): fix atoi() of unsigned value for shutdown_delay
- drivers/bcmxcp.c: fix fixed-width integers for get_word()/get_long()/init_outlet() or cast meaningfully where needed
- drivers/al175.c: avoid implicit conversion of byte to int during bit-shifting
- drivers/dstate.c: protect failsafe logic from compiler warnings with pragmas

2.1208 2021-03-30 Jim Klimov <jim@jimklimov.com>

- drivers/al175.c: avoid implicit tcflag_t signedness conversion
- drivers/al175.c: avoid implicit char/byte conversion
- drivers/al175.c: avoid implicit long/unsigned long conversion, and fix formatting nearby
- drivers/al175.c: align arguments to wrappers of al175_do() with the uint16_t type it accepts (avoid variable-width signed int)
- drivers/libusb.c: mark hid_rep_index static (not externalized)
- configure.ac: nut_enable_warnings: clang presets should let "-Wdocumentation" slide: NUT does not use it now, and third-party headers are what they are
- drivers/dstate.c: alarm_set(): stretch slightly absurd ways to avoid overflow and fix signed/unsigned mismatch (follow up for #986)
- configure.ac: add --enable-cppunit to allow disabling it even if deemed supported by compiler Practice shows that libcppunit.so may be linked against a different compiler version and/or libc than the one used for current NUT build. While formal support checked by the script works, practical build fails.
- NEWS: Reflect terminology change for upsmon

2.1209 2021-03-29 Jim Klimov <jim@jimklimov.com>

- clients/upsmon.c: rename static functions slavesync() ⇒ sync_secondaries() and checkmaster() ⇒ apply_for_primary() and document them better
- README, clients/nutclient.cpp, clients/nutclient.h, clients/upsmon.c, clients/upsmon.h, conf/ups.conf.sample, conf/upsd.users.sampl conf/upsmon.conf.sample.in, docs/config-notes.txt, docs/design.txt, docs/features.txt, docs/history.txt, docs/man/clone.txt, docs/man/genericups.txt, docs/man/libnutclient_misc.txt, docs/man/nut.conf.txt, docs/man/nutdrv_atcl_usb.txt, docs/man/richcomm_usb. docs/man/upsd.txt, docs/man/upsd.users.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/net-protocol.txt, docs/new-drivers.txt, docs/scheduling.txt, docs/security.txt, drivers/optiups.c, scripts/augeas/README, scripts/augeas/nutupsdusers.aug.in, scripts/augeas/tests/test_nut.aug, scripts/perl/Nut.pm, scripts/python/module/PyNUT.py, server/netcmds.h, server/netuser.c, server/netuser.h, server/user.c: Vox populi: replace manager/master by primary and subordinate/slave by secondary
- scripts/python/app/README: typo fix
- docs/man/libnutclient_misc.txt: fix English wording a bit
- docs/nut.dict: update word-count after large docs update

2.1210 2021-03-27 orbea <orbea@riseup.net>

- drivers/Makefile.am: drivers: Fix undefined references with slibtool.

2.1211 2021-03-26 Jim Klimov <jimklimov@gmail.com>

- tools/nut-snmpinfo.py: Update nut-snmpinfo.py Also handle the / / comments same way as /⋆ . . .

2.1212 2021-03-26 Arnaud Quette <ArnaudQuette@eaton.com>

- scripts/upower/95-upower-hid.rules: Revert "95-upower-hid.rules script updated" This reverts commit 262c23c6b8f1368165c75a0df3

2.1213 2021-03-25 Arnaud Quette <ArnaudQuette@eaton.com>

- tools/nut-snmpinfo.py: nut-scanner: improve SNMP extractor script Also remove EOL comments

2.1214 2021-03-24 Jim Klimov <jim@jimklimov.com>

- drivers/bestups.c, drivers/blazer.c, drivers/blazer.h, drivers/blazer_ser.c, drivers/blazer_usb.c: bestups, blazer* driver sources: add obsoletion notices on top, in favor of nutdrv_qx drivers
- tools/nut-usbinfo.pl: allow to trace USB driver conflicts (e.g. obsoleted and new handlers of same vendor/product IDs)

2.1215 2021-03-23 Ygor Amadeo Sartori Regados <ygorre@tutanota.com>

- drivers/microsol-apc.c, drivers/microsol-apc.h, drivers/microsol-common.c, drivers/microsol-common.h: Bug fix: battery charge calculation
- drivers/microsol-common.c: Bug fix: Handle packet boundary desynchronization

2.1216 2021-03-23 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: make GitIgnores failure fatal (and report what the difference is, for tracked and regenerated files)
- tests/.gitignore: GitIgnore tests/nutlogtest binary
- ci_build.sh: make GitIgnores failure fatal

2.1217 2021-03-23 Degott, Francois Regis <FrancoisRegisDegott@eaton.com>

- scripts/upower/95-upower-hid.rules: 95-upower-hid.rules script updated
- scripts/upower/95-upower-hid.rules: 95-upower-hid.rules script updated
- drivers/Makefile.am, drivers/eaton-ats16-nm2-mib.c, . . . /{eaton-ats16-mib.h ⇒ eaton-ats16-nm2-mib.h}, . . . /{eaton-ats16-mib.c ⇒ eaton-ats16-nmc-mib.c}, drivers/eaton-ats16-nmc-mib.h, drivers/snmp-ups.c: improve support of EATON ATS16 NMC/NM2

2.1218 2021-03-21 Ygor Amadeo Sartori Regados <ygorre@tutanota.com>

- drivers/microsol-apc.c: Fixed missing calculation part for BZ1500 Bug identified with data provided on issue #697
- drivers/microsol-common.c: CI fix: C89 compilation fixed
- drivers/Makefile.am: Missing header fixed
- drivers/Makefile.am: CI error fix: missing header file

2.1219 2021-03-19 Ygor Amadeo Sartori Regados <ygorre@tutanota.com>

- drivers/microsol-common.c, drivers/microsol-common.h: Fixed LGTM alert about localtime_r Also passed microsol-common.c through indent
- drivers/Makefile.am, drivers/microsol-apc.c, drivers/microsol-apc.h, drivers/microsol-common.c, drivers/microsol-common.h: New driver: microsol-apc Derived from solis driver, for newer APC Back-UPS BR hardware. Support added for APC Back-UPS BZ1500, BZ2200BI and BZ2200I. Tested on BZ2200BI. Created common file that may be used on solis as well.

2.1220 2021-03-14 JungEon Kim <me@jungeon.kim>

- data/driver.list.in: Add Delta UPS Amplon R Series in drivers.list

2.1221 2021-03-14 Jim Klimov <jim@jimklimov.com>

- drivers/dstate.c: alarm_set(): at least log the truncated buf if it does not fit into dstate field

2.1222 2021-03-13 JungEon Kim <me@jungeon.kim>

- drivers/Makefile.am, drivers/delta_ups-hid.c, drivers/delta_ups-hid.h, drivers/usbhid-ups.c: delta_ups-hid: Add support for Delta UPS Amplon R Series

2.1223 2021-03-13 Jim Klimov <jim@jimklimov.com>

- docs/developers.txt: replace "master" where it is easy, and update some recommendations
- clients/upsmon.c: comment that also several NUT drivers can directly set FSD flag propagated from the smarter power devices
- docs/security.txt: extend the Firewall section for more considerations
- docs/man/upsmon.txt: suggestions for experiments about timing the shutdown vs. dummy SHUTDOWNCMD to check the skeleton logic
- docs/man/upsmon.conf.txt: extend the example for "bigserver" with manager vs subordinate upsmon's
- docs/history.txt: reflect that slave/master terms were deprecated

- README: Make note of UPSes which allow multiple managerial accesses
- clients/nutclient.cpp, clients/nutclient.h, clients/upsmon.c, docs/net-protocol.txt, scripts/perl/Nut.pm, scripts/python/module/PyNUT.p server/netcmds.h, server/netuser.c, server/netuser.h, server/user.c: Identify points in source code (and few related docs) for deprecating master\|slave terminology
- README, clients/upsmon.c, clients/upsmon.h, conf/ups.conf.sample, conf/upsd.users.sample, conf/upsmon.conf.sample.in, docs/config-notes.txt, docs/design.txt, docs/features.txt, docs/man/clone.txt, docs/man/genericups.txt, docs/man/libnutclient_misc.txt, docs/man/nut.conf.txt, docs/man/nutdrv_atcl_usb.txt, docs/man/richcomm_usb.txt, docs/man/upsd.txt, docs/man/upsd.users.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/net-protocol.txt, docs/new-drivers.txt, docs/nut.dict, docs/scheduling.txt, docs/security.txt, drivers/optiups.c, scripts/augeas/README, scripts/augeas/nutupsdusers.aug.in, scripts/augeas/tests/test_nut.aug, scripts/perl/Nut.pm, server/user.c: Update documentation, emitted messages and easy-to-fix code to rename master⇒manager and slave⇒subordinate
- docs/man/upsmon.txt: suggestions for experiments about timing the shutdown vs. dummy SHUTDOWNCMD to check the skeleton logic
- docs/security.txt: extend the Firewall section for more considerations
- docs/security.txt: reword one shade of "master"
- docs/solaris-usb.txt: reword one shade of "master"
- drivers/asem.c: clarify the use of "S" word
- drivers/phoenixcontact_modbus.c: clarify the use of "S" word
- drivers/nutdrv_qx.c, drivers/usbhid-ups.c: drivers/nutdrv_qx.c & usbhid-ups.c: reword "Reference list of. . . "
- clients/upsmon.c, docs/net-protocol.txt: docs/net-protocol.txt \+ upsmon.c: comment that also several NUT drivers can directly set FSD flag propagated from the smarter power devices
- conf/upsmon.conf.sample.in: note that systems should only shutdown when less than MINSUPPLIES PSUs are non-critical
- conf/upsmon.conf.sample.in: note about UPSes with manageable thresholds for critical state
- conf/upsmon.conf.sample.in: note that rack shutdowns can compete for I/O and take longer
- conf/upsmon.conf.sample.in: generalize the example about multi-PSU servers
- docs/config-notes.txt: update the example about multi-PSU servers
- docs/config-notes.txt: note about upsmon with 0 PSUs for just-monitoring
- data/html/header.html.in, docs/cables/apc-rs500-serial.txt, docs/cables/ge-imv-victron.txt, docs/cables/powerware.txt, docs/cables/repotec.txt, docs/cables/sms.txt, docs/man/apcsmart-old.txt, docs/man/apcsmart.txt, docs/man/asem.txt, docs/man/bcmxcp.txt, docs/man/bcmxcp_usb.txt, docs/man/belkin.txt, docs/man/belkinunv.txt, docs/man/bestfcom.txt, docs/man/bestuferrups.txt, docs/man/bestups.txt, docs/man/everups.txt, docs/man/genericups.txt, docs/man/index.txt, docs/man/libnutclient_misc.txt, docs/man/libnutclient_tcp.txt, docs/man/libupsclient-config.txt, docs/man/liebert-esp2.txt, docs/man/metasys.txt, docs/man/mgeshut.txt, docs/man/mge-utalk.txt, docs/man/nut-driver-enumerator.txt, docs/man/nut-ipmipsu.txt, docs/man/nut-scanner.txt, docs/man/nutdrv_atcl_usb.txt, docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_add_option_to_device.txt, docs/man/nutscan_cidr_to_ip.txt, docs/man/nutscan_display_parsable.txt, docs/man/nutscan_display_ups_conf.txt, docs/man/nutscan_free docs/man/nutscan_get_serial_ports_list.txt, docs/man/nutscan_init.txt, docs/man/nutscan_new_device.txt, docs/man/nutscan_scan_av docs/man/nutscan_scan_eaton_serial.txt, docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan_nut.txt, docs/man/nutscan_scan_s docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt, docs/man/oneac.txt, docs/man/optiups.txt, docs/man/phoenixcontact_modbus.txt, docs/man/powercom.txt, docs/man/powerman-pdu.txt, docs/man/rhino.txt, docs/man/richcomm_usb.txt, docs/man/riello_ser.txt, docs/man/riello_usb.txt, docs/man/skel.txt, docs/man/solis.txt, docs/man/tripplite.txt, docs/man/ups.conf.txt, docs/man/upscli_add_host_cert.txt, docs/man/upscli_connect.txt, docs/man/upscli_disconnect.txt, docs/man/upscli_get.txt, docs/man/upscli_init.txt, docs/man/upscli_splitaddr.txt, docs/man/upscli_splitname.txt, docs/man/upscli_upserror.txt, docs/man/upsclient.txt, docs/man/upscmd.txt, docs/man/upsd.conf.txt, docs/man/upsd.txt, docs/man/upsd.users.txt, docs/man/upsdrvctl.txt, docs/man/upsdrvsvcctl.txt, docs/man/upslog.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/man/upsrw.txt, docs/man/upssched.txt, docs/man/upsset.cgi.txt, docs/man/upsset.conf.txt, docs/man/upsstats.html.txt, docs/man/usbhid-ups.txt, docs/man/victronups.txt: docs: fix some trailing whitespaces

2.1224 2021-03-12 Jim Klimov <jim@jimklimov.com>

- drivers/dstate.c: limit alarm_buf string to fit into a dstate info status, and log errors and overflows from alarm_set() [issue #960]

2.1225 2021-03-02 Jim Klimov <jimklimov@gmail.com>

- docs/man/nutdrv_qx.txt: Update nutdrv_qx.txt Fixed typo in a new masterguard paragraph

2.1226 2021-03-02 Edgar Fuß <ef@math.uni-bonn.de>

- docs/man/blazer-common.txt, docs/man/nutdrv_qx.txt, docs/man/tripplite_usb.txt, docs/man/usbhid-ups.txt: Add a remark that USB device numbers may be unstable In the documentation of the USB device number matching, add a remark that device numbers need not to be stable across re-boots or when re-plugging the device.
- drivers/usb-common.c: USB device matching: add debug messages on non-match When failing to match the Device part, note this via upsdebugx() just like when not matching any other part (VendorId, ProductId, Bus, etc.).

2.1227 2021-02-12 Edgar Fuß <ef@math.uni-bonn.de>

- tools/nut-usbinfo.pl: Fix VendorID/ProductID matching In a line like { USB_DEVICE(0x06da, 0x0002), "Phoenixtec Power","USB Cable (V2.00)", &phoenixtec_subdriver },/* Masterguard A Series */ don't match ProductID up to the closing parenthesis in the product name string.

2.1228 2021-02-11 Edgar Fuß <ef@math.uni-bonn.de>

- docs/man/masterguard.txt, docs/man/nutdrv_qx.txt, docs/nutdrv_qx-subdrivers.txt, drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_masterguard.c, drivers/nutdrv_qx_masterguard.h: Add Masterguard A/E driver based on Q* framework Add a new driver for Masterguard A and E series based on the Q* framework (nutdrv_qx). Based on vendor documentation of both the command set and USB protocol I was both asked not to disclose. Supports "new" A700/1000/2000/3000(-19) and E40/60/100(-19) (totally untested due to lack of hardware). Still sort of work in progress due to some open questions on NUT integration.
- docs/man/blazer-common.txt, docs/man/nutdrv_qx.txt, docs/man/tripplite_usb.txt, docs/man/usbhid-ups.txt, drivers/blazer_usb.c, drivers/libusb.c, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/tripplite_usb.c, drivers/usb-common.c, drivers/usb-common.h, drivers/usbhid-ups.c: Add USB device number matching Extend the USB matching by a device number (in addition to the existing bus number) by adding a Device field to USBDevice_[st] and ammending the RegExp by a seventh field. Maybe some #defines for the magical constants would be appropriate. Add DEBUG_EXACT_MATCH_DEVICE analogous to DEBUG_EXACT_MATCH_BUS, whatever its intended usage is. Document the device field where the bus field was documented (which is not the case everywhere it's actually used).

2.1229 2021-02-01 Clappier, Eric <EricClappier@Eaton.com>

- drivers/eaton-pdu-marlin-mib.c, drivers/powerware-mib.c: Fix dry contacts status for EMP02

2.1230 2021-01-31 TJ McConnell <tj@vergesense.com>

- drivers/tripplite-hid.c: Move 0x3024 alphabetically. Add comment about new version

2.1231 2021-01-26 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/eaton-pdu-marlin-mib.c: snmp-ups: fix regression on Eaton ePDU Fix a regression that caused a mis-determination of the SNMP base OID index (0 or 1, should be 1). This in turn caused a mis-iteration over the outlets, from 0 to N-1 instead of 1 to N, which resulted in the missing Nth outlet (last outlet of the PDU). This also caused some data refresh issues
- drivers/eaton-pdu-marlin-mib.c: snmp-ups: fix regression on Eaton ePDU Fix a regression that caused a mis-determination of the SNMP base OID index (0 or 1, should be 1). This in turn caused a mis-iteration over the outlets, from 0 to N-1 instead of 1 to N, which resulted in the missing Nth outlet (last outlet of the PDU). This also caused some data refresh issues

2.1232 2021-01-23 Yifeng Li <tomli@tomli.me>

- drivers/main.c: main.c: write upsdrv_initinfo/updateinfo() logs to syslog When a NUT driver is started (via upsdrvctl start), it runs the following sequence: 1. Run as a foreground process. 2. Do some basic initialization, log to stderr. 3. If not debugging: - fork()
  - Run as a daemon, stderr off, syslog on. The problem, however, is that upsdrv_initinfo() and updateinfo() are first called before forking, as a result, the log messages is only sent to stderr, not syslog. On a traditional init \+ syslog server setup, those startup messages are lost. However, those lost messages can be urgent - for example, it can be a warning about a failed UPS inverter. If the server is freshly started, the admin may miss them until much later, or keep staring at the mysterious alarm word without finding anything relevant in syslog. Similarly, other types of warnings, such as a rounded ondelay value, should also be visible in syslog. This patch checks the debugging flags and turn on syslog earlier when it's in non-debug, non-fork mode, allowing the logs during upsdrv_initinfo() and upsdrv_updateinfo() to be recorded in syslog. Mailing list discussion: https://alioth-lists.debian.net/pipermail/nut-upsdev/2021-January/007508.html

2.1233 2021-01-23 TJ McConnell <tj@vergesense.com>

- drivers/tripplite-hid.c, scripts/upower/95-upower-hid.rules: Add AVR750U (0x3024). Use smart1500lcdt_scale for voltage/current/frequence

2.1234 2021-01-20 Jim Klimov <jim@jimklimov.com>

- drivers/eaton-ats16-nm2-mib.c, drivers/eaton-ats16-nmc-mib.c: eaton-ats16-nm?-mib.c: port comments from 42ity fork to clarify what is going on here for mib2nut_info_t definitions
- tools/nut-scanner/scan_snmp.c: comment about not-function pointers from libnet-snmp
- tools/nut-scanner/scan_snmp.c: fix indentations and whitespaces
- tools/nut-scanner/scan_xml_http.c: fix indentations and whitespaces
- tools/nut-scanner/nut-scanner.c: nut-scanner.c: some extra whitespace, some missing, in longopts[]
- drivers/delta_ups-mib.c: delta-mib.c: rename onbatt_info lookup table in commented-away code sample
- drivers/huawei-mib.c: huawei-mib.c: rename onbatt_info lookup table in commented-away code sample
- drivers/xppc-mib.c: xppc-mib.c: rename onbatt_info lookup table in commented-away code sample

2.1235 2021-01-08 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/snmp-ups.c: snmp-ups: fix instant commands using numeric parameters Instant commands using numeric parameters, like on/off/cycle commands, were failing due to a bad value submitted type (time instead of integer) Cherry-picked from https://github.com/42ity/nut/pull/120

2.1236 2021-01-06 Jim Klimov <jim@jimklimov.com>

- server/netssl.c: #include "nut_stdint.h" for limits definitions
- clients/upscmd.c, clients/upsimage.c, clients/upsmon.c, clients/upsrw.c, clients/upsstats.c, common/common.c, common/str.c, drivers/al175.c, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/bestfortress.c, drivers/etapro.c, drivers/genericups.c, drivers/metasys.c, drivers/netxml-ups.c, drivers/nutdrv_siemens_sitop.c, drivers/powercom.h, drivers/richcomm_usb.c drivers/serial.c, drivers/snmp-ups.c, server/upsd.c: Various sources: use nut_stdint.h where limits.h was introduced recently
- configure.ac, include/nut_stdint.h: nut_stdint.h: include limits.h and make sure SIZE_MAX is defined

2.1237 2020-12-29 Steve Magoun <smagoun@gmail.com>

- drivers/macosx-ups.c: Add ups.mfr and ups.model legacy vars, fixes #949

2.1238 2020-12-29 Jim Klimov <jim@jimklimov.com>

- tests/nut-driver-enumerator-test.sh: allow to pass SHELL_PROGS="busybox_sh" as a single token
- ci_build.sh: allow CI workers to say if they have functional libgd (for the current compiler/ABI version) so whether it should not be required

2.1239 2020-12-28 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: treat helper dirs (tmp/ .inst/ CCACHE_DIR/) correctly even if named FS objects are symlinks to dirs
- docs/Makefile.am, docs/man/Makefile.am: docs/{man/,}Makefile.am: parameterize EGREP and call "file" sanity checks case-insensitive
- m4/nut_compiler_family.m4: detect Apple LLVM as CLANG

2.1240 2020-12-28 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Add CPS VP1200ELCD (ValueII_1200E) Closes: https://github.com/networkupstools/nut-ddl/issues/-10
- data/driver.list.in: HCL: Add Tripp Lite SMC15002URM Closes: https://github.com/networkupstools/nut/issues/812
- data/driver.list.in: HCL: Add Cyber Power Systems BR1000ELCD Closes: https://github.com/networkupstools/nut/issues/552

2.1241 2020-12-27 Jim Klimov <jim@jimklimov.com>

- drivers/richcomm_usb.c: fix size_t types for upsdebugx_hex() and range-check the values
- drivers/blazer_usb.c: fix static const struct
- drivers/blazer_usb.c: fix whitespace
- drivers/nutdrv_qx.c: fix static const struct
- clients/nutclient.cpp, clients/nutclient.h: clients/nutclient.{h,cpp}: explicitly request copy constructor generation for exception classes
- configure.ac, docs/developers.txt: configure.ac docs/developers.txt: add a "medium" warning pre-set difficulty level
- configure.ac: document the choice rationale of no-warning macros
- docs/developers.txt, docs/nut.dict: docs/developers.txt: document the new --enable-warnings options

- configure.ac: define a clang-minimal warning preset that our codebase already survives
- .travis.yml, configure.ac: Move comment about clang no-warning selection from .travis.yml to configure.ac
- .travis.yml: make use of BUILD_WARNFATAL=yes BUILD_WARNOPT=hard to simplify the test setup specifications

2.1242 2020-12-26 Jim Klimov <jim@jimklimov.com>

- server/conf.c, server/upsd.c, server/upsd.h: server/upsd.{c,h} conf.c: fix maxconn to long, to match sysconf() return value; check that practical value range allows to malloc() the buffers
- server/upsd.c: fix size_t/ssize_t types for {ssl_,}write() in sendback()
- server/netssl.c, server/netssl.h: server/netssl.{c,h}: fix ssl_write()/ssl_read() to return ssize_t (like upsclient net_write()/net_read())
- server/netssl.c: fix int types for OpenSSL codepaths
- drivers/liebert-esp2.c: fix numphases to unsigned int
- drivers/liebert-esp2.c: fix int size_t types for read(), malloc() etc.
- drivers/liebert-esp2.c: fix size_t types for upsdebugx_hex() and some indentation
- drivers/isbmex.c: fix int size_t types for read(), malloc() etc.
- drivers/genericups.c: fix int types for sleep()
- drivers/genericups.c: cast termios types for bit magic
- drivers/gamatronic.h: fix speed_t/size_t in baud_rates[] definition like for bcmxcp_ser
- drivers/gamatronic.c: fix some whitespace
- drivers/gamatronic.c: fix int size_t types for read(), malloc() etc.
- drivers/etapro.c: constrain return value for etapro_get_response() type
- drivers/bestuferrups.c: fix size_t int type for execute() (use-cases pass sizeof() anyway)
- drivers/bestfortress.c: constrain value for usleep() in upssend()
- drivers/bestfortress.c: constrain return value for upssend() type
- drivers/bestfortress.c: fix size_t types for upsdebugx_hex()
- drivers/bestfcom.c: fix size_t int type for execute() (use-cases pass sizeof() anyway)
- drivers/belkinunv.c: fix int types for read(), malloc() etc.
- drivers/belkinunv.c: fix int types for reg (byte)
- drivers/belkin.c: fix size_t/useconds_t int type for cnt (already limited to byte range)
- drivers/bcmxcp.c: whitespace fix indentation in set_alarm_support_in_alarm_map()
- drivers/bcmxcp.c: fix unsigned int type for index arguments in set_alarm_support_in_alarm_map()
- drivers/serial.c: fix ssize_t int type for function returns vs size_t buflen argument
- drivers/dstate.c: fix size_t int type for bufrw_max
- drivers/main.c: fix int types for poll_interval
- clients/upscmd.c: fix data range warnings for asserts about implem-dependent overflow chances
- clients/upsrw.c: fix data range warnings for asserts about implem-dependent overflow chances

- clients/upsclient.c: fix data range warnings for asserts about implem-dependent overflow chances
- clients/upsmon.c, clients/upsmon.h: clients/upsmon.c: fix int types for power value and totalpv accounting
- clients/upsmon.c: fix int types for sleep()
- clients/upsimage.c: make explicit casts from floating-points into int types for rendering
- clients/upscmd.c: fix int types for timeouts from upsclient.c
- clients/upsrw.c: fix int types for timeouts from upsclient.c
- clients/upsclient.c: fix numq int types for verify_resp()
- .travis.yml: move _matrix_linux_gnustd_warn_viable a bit up in _matrix_required_linux listing, to get more probable failures earlier
- configure.ac: hush clang warnings about nullptr in C+\+ code (c\+\+98 not compatible))
- configure.ac: provide a hidden "gcc-legacy" warnings option to cover previous behavior
- ci_build.sh: allow passing --enable-warnings=... and --enable-Werror=... args via BUILD_WARNOPT and BUILD_WARNFATAL envvars
- configure.ac: implement --enable-warnings=... and --enable-Werror(=yes/no) to specify the presets we require to pass
- m4/nut_arg_with.m4: add NUT_ARG_ENABLE and document the difference vs NUT_ARG_WITH
- ci_build.sh: support passing BUILD_SSL_ONCE=true to only try whichever SSL implem is found, not both even if installed
- autogen.sh: shell-check that generated configure script is syntactically valid
- m4/nut_compiler_family.m4: fix tracking nut_cv_CLANGCC and determining CLANGCC=yes
- drivers/apcsmart.c, drivers/apcsmart.h: drivers/apcsmart.{c,h}: drop custom debx()/logx()/fatx()/fate() macros in favor of NUT-standard ones

2.1243 2020-12-25 Jim Klimov <jimklimov@gmail.com>

- drivers/usbhid-ups.c: match_function_subdriver(): upsdebugx() device matching faults to help troubleshoot driver setups

2.1244 2020-12-25 Jim Klimov <jim@jimklimov.com>

- clients/upsclient.c: make explicit a case size_t/ssize_t casting
- clients/upsclient.c, clients/upsclient.h: clients/upsclient.{c,h}: fix "timeout" type in net_read/net_write/upscli_sendline_timeout/upscli to match upscli_select_read/upscli_select_write
- clients/upsclient.c: fix int types for OpenSSL codepaths
- common/common.c: fix initialization of a struct timeval (initialize all fields)
- drivers/eaton-pdu-marlin-mib.c: fix initialization of a info_lkp_t (initialize all fields)
- drivers/al175.c: assert incoming numbers, error-check the sprintf() result, and comment why
- drivers/blazer_usb.c, drivers/nutdrv_qx.c: nutdrv_qx blazer_usb: report acceptable subdriver names in help()
- drivers/bcmxcp_ser.c: add comment for per-warning pragma naming
- drivers/bcmxcp_ser.c: fix wrong long macro name typo, for the pragmas gating
- drivers/bcmxcp_ser.c: drivers/bcmxcp_ser.h: #include <limits.h> (lost in cherrypick web)

- docs/nut.dict: add Evgeny
- docs/nut.dict: add maintainership
- drivers/bcmxcp_ser.c: fix nesting of macros for pragmas
- drivers/bcmxcp_ser.c: use HAVE_PRAGMAS_FOR_GCC_DIAGNOSTIC_IGNORED_TAUTOLOGICAL_CONSTANT_OUT_OF
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMAS_FOR_GCC_DIAGNOSTIC_IGNORED_TAUTOLOGICAL_CONSTANT_OU (equivalent of HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_TYPE_LIMITS on some compilers)
- drivers/bcmxcp_ser.c: comment in/out function contexts for the pragma
- drivers/bcmxcp_ser.c: do macro magic for HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_TYPE_LIMITS_BESIDEFUNC working with older compilers
- m4/ax_c_pragmas.m4: separate the support for #pragma GCC diagnostic... inside vs outside function bodies (gcc-4.4 and older are upset about "inside" case)
- drivers/bcmxcp_ser.c: cast type for printing speed_t on different OSes

2.1245 2020-12-24 Jim Klimov <jimklimov@gmail.com>

- drivers/usb-common.c: usb-common.c: upsdebugx() device matching faults to help troubleshoot driver setups

2.1246 2020-12-23 Jim Klimov <jim@jimklimov.com>

- docs/user-manual.txt: small typo fix
- docs/nut.dict: nut.dict: update with project names that nut-website spellchecking prefers to know
- docs/nut.dict: nut.dict: update with project names that nut-website spellchecking prefers to know
- docs/nut.dict: nut.dict: update with project names that nut-website spellchecking prefers to know

2.1247 2020-12-21 Jim Klimov <jim@jimklimov.com>

- docs/acknowledgements.txt: update persons currently involved, new maintainer https://alioth-lists.debian.net/pipermail/nut-upsdev/2020-November/007494.html

2.1248 2020-12-16 Clappier, Eric <EricClappier@Eaton.com>

- docs/nut-names.txt: Update nut name for sensor parent serial number
- docs/nut-names.txt: Update nut names
- drivers/eaton-pdu-marlin-mib.c, drivers/snmp-ups.c: Add ambient.n.parent.serial for marlin epdu Regarding dropped code from snmp-ups.c - per discussion in https://github.com/42ity/nut/pull/117 this was not a typo: > It is an intentional change for oid read value issue. > This allows to actually retrieve an indirection value > (when an Oid points at an Oid, like stood)

2.1249 2020-12-15 Clappier, Eric <EricClappier@Eaton.com>

- drivers/eaton-pdu-marlin-mib.c, drivers/powerware-mib.c: Change uid and modbus address name according nut nomenclature

2.1250 2020-12-15 Bi11 <Bi11gates9999@gmail.com>

- drivers/snmp-ups.c, tools/nut-scanner/scan_snmp.c: Fix incorrect fatal message for privProtocol
- tools/nut-scanner/scan_snmp.c: Fix incorrect usmAESPrivProtocol import in nut-scanner In libnetsnmp, usmAES128PrivProtocol is a pointer, while usmAESPrivProtocol is an array. This change is the same as in c7cf507454bcf6f40b24b58e61c130c7772c5bf2.

2.1251 2020-12-15 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/eaton-pdu-marlin-mib.c: snmp-ups: Restore legacy Eaton ePDU switchability info Use a hack to also have switchability for both the unit and its outlets on legacy Eaton G2 ePDU
- drivers/eaton-pdu-marlin-mib.c: snmp-ups: Restore legacy Eaton ePDU switchability info Use a hack to also have switchability for both the unit and its outlets on legacy Eaton G2 ePDU Partially cherry-picked from 42ity fork, and bumped to their faster moving MIB mapping revision number. See https://github.com/42ity/nut/pull/118 As for the behavior of the fix: * on G2, the first outlet.switchable doesn't exist, so try the 2nd, which is the ugly hack: try on the first outlet to see if switchable * on G3, the first is good, so flag unique does the rest Tested on MA G2 and G3.

2.1252 2020-12-14 Clappier, Eric <EricClappier@Eaton.com>

- drivers/powerware-mib.c: Add modbus_address and uuid in snmp-ups/pw driver

2.1253 2020-12-07 Jim Klimov <jim@jimklimov.com>

- drivers/metasys.c: various routines: fix command_length into size_t
- drivers/bcmxcp_io.h, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c: bcmxcp*: various routines: fix command_length into size_t
- drivers/bcmxcp_ser.c: get_answer(): fix bytes_read, end_length and length into size_t
- drivers/bcmxcp_usb.c: get_answer(): fix bytes_read, end_length and length into size_t
- drivers/libusb.c: fix whitespace
- drivers/bcmxcp_ser.c, drivers/bcmxcp_ser.h: drivers/bcmxcp_ser.{c,h}: get_answer(): fix baud rate processing into speed_t and size_t

2.1254 2020-12-02 Jim Klimov <jimklimov@gmail.com>

- drivers/solis.c: Update solis.c Shuffle the comparison in the if-clause to certainly bail out if we did not read from the port.
- include/nut_float.h: Update nut_float.h Consider equality to epsilon to be also treated as zero
- include/nut_float.h: Update nut_float.h Fix copyright line

2.1255 2020-12-02 Jim Klimov <jim@jimklimov.com>

- drivers/bcmxcp.c: use size_t for upsdebugx_hex() and upsdebugx_ascii() args for logged data length
- drivers/bcmxcp.c: fix a few whitespaces (indentation)

2.1256 2020-12-01 Jim Klimov <jim@jimklimov.com>

- drivers/bestfortress.c: fix printing of ssize_t variable
- drivers/masterguard.c: fix printing of ssize_t variable

2.1257 2020-11-30 Jim Klimov <jim@jimklimov.com>

- drivers/bestfortress.c: use size_t where it should be, for data chunk length parsing
- clients/upsstats.c: fix use of use size_t vs int-argumented printf("%.*s", int, str) formatting
- drivers/al175.c: check pointer math WRT buffer lengths passed to logging
- common/common.c, include/common.h: common.{c,h}: use size_t for upsdebugx_hex() and upsdebugx_ascii() args for logged data length
- drivers/tripplitesu.c: init_comm(): fix data types to size_t for strlen() function
- drivers/tripplitesu.c: do_command(): fix up "count" int type to be unsigned
- drivers/tripplitesu.c: do_command(): fix up "ret" int type to avoid conversions
- drivers/masterguard.c: avoid value type conversion by changing data types to size_t for strlen() function
- drivers/masterguard.c: avoid value type conversion by casting explicitly the return value of strlen() function
- clients/upsset.c: drivers/upsset.c: fix up int types to avoid implicit conversions
- clients/upsimage.c: drivers/upsimage.c: avoid value type conversion by casting explicitly the return value of strlen() function
- clients/upsimage.c: drivers/upsimage.c: fix up int types to avoid conversions
- clients/cgilib.c: drivers/cgilib.c: fix up int types to avoid conversions
- clients/upsstats.c: drivers/upsstats.c: fix up floating-point types to avoid conversions and precision change
- clients/upsstats.c: use size_t where it should be, for string length related processing
- clients/upslog.c: use size_t where it should be, for string length related processing
- clients/upslog.c: avoid implicit floating-integer conversion
- drivers/dummy-ups.c: use size_t where it should be, for numargs-related parsing
- clients/upsclient.c: use size_t where it should be, for numargs parsing
- server/netcmds.h, server/netget.c, server/netget.h, server/netinstcmd.c, server/netinstcmd.h, server/netlist.c, server/netlist.h, server/netmisc.c, server/netmisc.h, server/netset.c, server/netset.h, server/netssl.c, server/netssl.h, server/netuser.c, server/netuser.h, server/upsd.c, server/user.c: server/*: numerous upsd commands: use size_t where it should be, for numargs parsing
- server/sockdebug.c: use (and print) size_t where it should be, for numargs parsing
- drivers/dstate.c: use size_t where it should be, for numargs parsing
- clients/upssched.c: use (and print) size_t where it should be, for numargs parsing
- clients/upsmon.c: use size_t where it should be, for numargs parsing
- clients/upsset.c: use size_t where it should be, for numargs parsing
- server/conf.c: use size_t where it should be, for numargs parsing
- drivers/snmp-ups.c: whitespace fix
- drivers/snmp-ups.c: use size_t where it should be, for numargs parsing
- common/state.c, include/state.h, server/sstate.c: common and server state.c: use size_t where it should be, for numargs and numflags parsing
- drivers/clone-outlet.c: use size_t where it should be, for numargs parsing
- drivers/clone.c: use size_t where it should be, for numargs parsing

- server/netssl.c: avoid implicit size_t (arch-dependent) vs. PRInt32 (Mozilla NSS) integer conversion
- clients/upsclient.c: avoid implicit size_t (arch-dependent) vs. PRInt32 (Mozilla NSS) integer conversion
- drivers/bestfortress.c: fix up int types to avoid implicit conversions, and pre-initialize to avoid uninitialized use
- drivers/nut-libfreeipmi.c: initialize variable to avoid potential uninitialized use
- drivers/blazer.c: initialize variable to avoid potential uninitialized use and convey an error if that happens
- drivers/powerpanel.c: initialize variable to avoid potential uninitialized use and convey an error if that happens
- drivers/solis.c: initialize variable to avoid potential uninitialized use and convey an error if that happens
- drivers/rhino.c: initialize variable to avoid potential uninitialized use and convey an error if that happens
- drivers/bestfortress.c: initialize variables to avoid potential uninitialized use and null-pointer dereference if data processing fails
- drivers/cps-hid.c: employ nut_float.h for safer floating point comparisons
- drivers/snmp-ups.c: employ nut_float.h for safer floating point comparisons
- drivers/nutdrv_qx_voltronic.c: employ nut_float.h for safer floating point comparisons
- drivers/nutdrv_qx_bestups.c: employ nut_float.h for safer floating point comparisons
- drivers/nutdrv_qx.c: employ nut_float.h for safer floating point comparisons
- drivers/blazer.c: employ nut_float.h for safer floating point comparisons
- drivers/upscode2.c: employ nut_float.h for safer floating point comparisons
- drivers/solis.c: employ nut_float.h for safer floating point comparisons
- drivers/rhino.c: employ nut_float.h for safer floating point comparisons
- drivers/metasys.c: employ nut_float.h for safer floating point comparisons
- drivers/mge-hid.c: employ nut_float.h for safer floating point comparisons
- configure.ac, include/Makefile.am, include/nut_float.h: Introduce nut_float.h and check more carefully for presence of math.h and/or float.h in the build system
- drivers/tripplitesu.c: avoid "bad function cast" by casting explicitly the return value of the function
- drivers/tripplite.c: avoid "bad function cast" by casting explicitly the return value of the function
- drivers/mge-xml.c: avoid "bad function cast" by casting explicitly the return value of the function
- drivers/bestfortress.c: avoid "bad function cast" by casting explicitly the return value of the function
- drivers/snmp-ups.c: fix snprintf() target buffer size from bogus sizeof() determination (#926)

2.1258 2020-11-29 Jim Klimov <jim@jimklimov.com>

- drivers/nutdrv_atcl_usb.c: fix const qualifier usage
- drivers/snmp-ups.c: fix const qualifier usage
- drivers/snmp-ups.h: remove const qualifiers from strings in snmp_info_t, we have code that writes into them
- drivers/dstate.c: dstate_tree_dump(): fix const qualifier usage
- drivers/bestfcom.c: avoid "bad function cast" by casting explicitly the return value of the function
- drivers/libshut.c: avoid alignment issues with buffer used actually for different variable types

- tools/nut-scanner/nutscan-ip.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_CAST_ALIGN to quiesce warnings about a value we anyway receive a pointer to
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_CAST_ALIGN
- server/sstate.c: sstate_dead(): do not shadow global varname "maxage" with same-named func argument
- drivers/snmp-ups.c: su_ups_get(): do not shadow function-scope varname "value" with temporary-scope namesake
- drivers/snmp-ups.c: snmp_ups_walk(): do not shadow global varnames "(input|output\|bypass)_phases" with same-named func local variables
- drivers/upscode2.c: check_uppm(): do not shadow function-scope varname "val" with temporary-scope namesake
- drivers/libhid.c: new_report_buffer(): do not shadow global varname "pDesc" with same-named func argument
- drivers/libshut.c: do not shadow global varnames "upsfd" and "device_path" with same-named func arguments in numerous routines
- drivers/dummy-ups.c: parse_data_file(): do not shadow global varname "upsfd" with same-named func argument (unused for good measure)
- clients/upsset.c: print_rw(): do not shadow global varname "upsname" with same-named func argument
- drivers/riello_usb.c: fix array initializers for sentinel entries
- drivers/blazer_usb.c: fix array initializers for sentinel entries
- drivers/nutdrv_qx_voltronic.c: fix array initializers for sentinel entries
- drivers/nutdrv_qx.c: fix array initializers for sentinel entries
- drivers/apcsmart_tabs.c: fix array initializers for sentinel entries
- drivers/apcsmart_tabs.c: fix numeric 0 into pointer NULL
- drivers/apcsmart.c: fix array initializers for sentinel entries
- drivers/blazer_ser.c: fix array initializers for sentinel entries
- drivers/blazer.c: fix array initializers for sentinel entries
- drivers/powerp-txt.c: fix array initializers for sentinel entries
- drivers/powerp-bin.c: fix array initializers for sentinel entries
- drivers/mge-hid.c: fix array initializers for sentinel entries
- drivers/liebert-esp2.c: upsdrv_initinfo(): fix array initializer; small whitespace clean-up
- server/upsd.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT to reinforce the defensive programming patterns
- drivers/tripplite_usb.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT to reinforce the defensive programming patterns
- drivers/nutdrv_qx.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT to reinforce the defensive programming patterns
- drivers/powerp-bin.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT to reinforce the defensive programming patterns
- drivers/upscode2.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT to reinforce the defensive programming patterns
- drivers/usbhid-ups.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT to reinforce the defensive programming patterns

- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_ASSIGN_ENUM
- tools/nut-scanner/scan_nut.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES to quiesce a system definition of signal routines
- drivers/dstate.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES to quiesce a system definition of signal routines
- drivers/main.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES to quiesce a system definition of signal routines
- clients/upssched.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES to quiesce a system definition of signal routines
- clients/upsmon.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES to quiesce a system definition of signal routines
- server/upsd.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES to quiesce a system definition of signal routines
- tools/nut-scanner/scan_eaton_serial.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES to quiesce a system definition of signal routines
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_ASSIGN_ENUM
- tools/nut-scanner/nutscan-ip.c: whitespace/formatting fixes
- tools/nut-scanner/scan_nut.c: whitespace/formatting fixes
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_COVERED_SWITCH_DEFAULT
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_STRICT_PROTOTYPES
- tools/nut-scanner/scan_avahi.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_ASSIGN_ENUM to quiesce a thirdparty-strange usecase of enum
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_ASSIGN_ENUM
- tools/nut-scanner/nut-scanner.c: whitespace/formatting fixes
- tools/nut-scanner/nutscan-ip.h: whitespace/formatting fixes
- tools/nut-scanner/nutscan-device.c: whitespace/formatting fixes
- tools/nut-scanner/scan_avahi.c: drop semicolons after scope braces

2.1259 2020-11-28 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: consider "gdlib" pkg-config presence equivalent to "libgd" There is a discrepancy between OS distro packaging names and the delivered .pc file name. . .
- .travis.yml: mark "gnu*-nowarn-x86-32bit" test cases evergreen

2.1260 2020-11-27 Jim Klimov <jim@jimklimov.com>

- drivers/bcmxcp.c, drivers/bcmxcp.h: drivers/bcmxcp.{h,c}: typo fix CAPASITOR⇒CAPACITOR
- tests/cpputest.cpp: cpputest.cpp: be sure to be able to handle exception objects
- .travis.yml: xenial@s390x does not have "time" for us (missed one beat)
- .travis.yml: from 32-bit build envs, drop amd64 libs that confuse the linker
- .travis.yml: tell the linker to go 32-bit too
- ci_build.sh: relax the naming of libgd options seen in the wild
- clients/Makefile.am: AM_CXXFLAGS\+=-I$(top_srcdir)/include

2.1261 2020-11-26 Jim Klimov <jimklimov@gmail.com>

- drivers/blazer_usb.c: annotate #if/#else/#endif relevant to TESTING builds
- scripts/Solaris/precheck.py: quote shell vars, and report mismatches if any

2.1262 2020-11-26 Jim Klimov <jim@jimklimov.com>

- drivers/nutdrv_atcl_usb.c: copy-paste typo fix about unreachable code
- drivers/libusb.c: copy-paste typo fix about unreachable code
- drivers/libusb.c: copy-paste typo fix about unreachable code
- drivers/nutdrv_atcl_usb.c: copy-paste typo fix about unreachable code
- drivers/nutdrv_qx_blazer-common.c: remove overly-eager protection from nonliteral format strings
- .travis.yml: mark "gnu*-nowarn-s390x" test cases evergreen

2.1263 2020-11-26 Bastien Nocera <hadess@hadess.net>

- tools/nut-usbinfo.pl: Reindent upower rules header This piece of the code was really confusing because it looked like, at a glance (and at more than a glance), that the line which we'd have read in the generated rules file was commented out. Turns out that beginning of lines in the generated rules could be in the middle of the line in the code that generated it. Reindent everything so that each line in the output corresponds to one line in the input, except for empty lines. There are no differences in output between the versions before and after this change.
- tools/nut-usbinfo.pl: Simplify exit path Why "!= usb" when we're already checking for usb and other values above? Always go to the end label if we didn't already jump to the section containing the actual rules.
- tools/nut-usbinfo.pl: Fix handling of "bind" events See https://lwn.net/Articles/837033/ for an in-depth explanation of how "bind" events should be handled in udev rules. In short: " The ACTION line causes the entire file to be skipped for anything other than ADD or CHANGE events; in particular, that is what will happen with BIND events. That will cause properties associated with those events to be lost — and the device in question to be set up improperly (if at all). "

2.1264 2020-11-25 Jim Klimov <jim@jimklimov.com>

- drivers/solis.c: avoid variable-length arrays, their support became optional after C99
- drivers/nutdrv_qx.c: avoid variable-length arrays, their support became optional after C99
- drivers/apcsmart.c: avoid variable-length arrays, their support became optional after C99
- drivers/rhino.c: upsdrv_shutdown(): use sendshut()
- drivers/rhino.c: sendshut(): handle negative returns from send_command()
- drivers/rhino.c: fix mismatched signedness in comparison
- drivers/rhino.c: avoid variable-length arrays, their support became optional after C99
- tools/nut-scanner/scan_xml_http.c: drop semicolons after scope braces
- tools/nut-scanner/nutscan-device.c: drop semicolons after scope braces
- tools/nut-scanner/scan_ipmi.c: drop semicolons after scope braces
- drivers/riello.c: drop extra semicolons
- drivers/bcmxcp.c: drop semicolons after scope braces
- tools/nut-scanner/scan_snmp.c: drop semicolons after scope braces
- drivers/powercom.c: drop semicolons after scope braces
- drivers/dstate.c: declare a macro for scoped block in a way that semicolon may follow
- tools/nut-scanner/scan_avahi.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/scan_ipmi.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/scan_xml_http.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/scan_snmp.c: mark up NUT_UNUSED_VARIABLEs
- tests/example.cpp, tests/nutclienttest.cpp: tests/nutclienttest.cpp example.cpp: wrap into HAVE_PRAGMA_GCC_DIAGNOSTIC_IG et al to avoid warnings for CPPUnit macro implementation (boils down to static vars)
- tests/cpputest.cpp, tests/example.cpp, tests/nutclienttest.cpp, tests/nutlogtest.c: tests/*.{c,cpp}: update legaleze headings
- tests/example.cpp: fix casting
- tests/nutclienttest.cpp: fix CPPUNIT assert after nullptr
- tests/nutclienttest.cpp: fix NULL ⇒ nullptr
- tests/nutclienttest.cpp: fix casting
- tests/Makefile.am: fix delivery and tracking of CPPUNITTEST(ER)SRC
- tests/nutlogtest.c: add more tests to investigate NUT_STRARG() behaviors
- configure.ac, include/str.h, m4/ax_c_pragmas.m4: m4/ax_c_pragmas.m4, str.h ⇒ common.h: introduce HAVE_PRINTF_STRING_N and NUT_STRARG(x) macro (for issue #904)
- tests/nutlogtest.c: use HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_FORMAT_OVERFLOW detection to quiesce warnings about "%s" resolving from NULL pointer First shot at issue NUT #904
- m4/ax_c_pragmas.m4: introduce HAVE_PRAGMA_GCC_DIAGNOSTIC_IGNORED_FORMAT_OVERFLOW detection First shot at issue NUT #904
- tests/cpputest.cpp: print final result code more comprehensibly (especially since process exit code is inverted)

- clients/Makefile.am: be sure to use NUT libcommon for CXX client builds
- clients/nutclient.cpp, clients/nutclient.h: clients/nutclient.{h,cpp}: move virtual destructors of exception classes into CPP file to bolt a linker unit (avoid Weak Vtables warnings and related build overheads)
- clients/nutclient.cpp: (presumed) typo fix - line ended with comma not semicolon
- clients/nutclient.cpp: quiesce warning and make visible the unused variable
- clients/Makefile.am: define HAVE_NUTCOMMON for NUT C+\+ builds
- clients/nutclient.cpp: use pragmas for -Wexit-time-destructors and -Wglobal-constructors handling for an std:string static variable
- m4/ax_c_pragmas.m4: define pragmas for -Wexit-time-destructors and -Wglobal-constructors handling
- clients/nutclient.cpp, clients/nutclient.h: clients/nutclient.{h,cpp}: align strarr_alloc() type with xcalloc() it uses ⇒ size_t
- clients/nutclient.cpp: fix old-style C casts into static_cast<>s
- clients/nutclient.cpp, clients/nutclient.h: clients/nutclient.cpp: for (clang) c+\+ builds with C++11/17/20, avoid warnings about C++98 compatibility that we do not claim anyway - quiesce in C+\+ source
- m4/ax_c_pragmas.m4: for (clang) c+\+ builds with C++11/17/20, avoid warnings about C\+\+98 compatibility that we do not claim anyway - check that we have pragmas for that
- clients/nutclient.h: align method docs with param names
- tools/nut-scanner/scan_snmp.c: do not wrap variable definitions into parentheses like function pointers
- drivers/al175.c: declare function(void) prototypes explicitly
- drivers/netxml-ups.c: netxml_alarm_subscribe(): explicitly cast range-limited int conversions
- drivers/powercom.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- drivers/powerman-pdu.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/powercom.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/riello_usb.c: annotate shutdown*() with noreturn attr
- drivers/powercom.c: annotate shutdown*() with noreturn attr
- drivers/al175.c: annotate upsdrv_shutdown() with noreturn attr
- clients/upsmon.c: annotate forceshutdown() with noreturn attr
- clients/upsimage.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- clients/upsimage.c: annotate lots of routines with noreturn attr
- tools/nut-scanner/scan_avahi.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/scan_ipmi.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/scan_xml_http.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/scan_snmp.c: mark up NUT_UNUSED_VARIABLEs
- drivers/netxml-ups.c: align method docs with param names
- drivers/netxml-ups.c: align method docs with supported keywords
- drivers/al175.c: align method docs with param names

- drivers/hidparser.c: satisfy pedantic macro parser (defined vs. used value)
- drivers/libshut.c: satisfy pedantic macro parser (defined vs. used value)
- drivers/nutdrv_qx.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- .travis.yml: xenial@s390x does not have "time" for us
- drivers/riello_usb.c: do not hijack system "errno" definition, and no use for local var of that name found anyway
- drivers/powerman-pdu.c: do not assign invalid value not from enum range, especially when for no reason other than to have an un-used initial value
- drivers/tripplite_usb.c: cover all values of enum in a switch() Note: everything not covered before this PR got aliased into default cases. I do not know the hardware and models to rule this out otherwise, possibly assignments of binary and/or smart protocol (lack of?) support are now wrong.
- drivers/powerp-bin.c: cover all values of enum in a switch()
- drivers/bestfcom.c: do not "break" just after "fatalx()"
- drivers/bcmxcp.c: do not "break" just after "return"
- common/strerror.c: do not warn about unreachable code in the web of ifdef built blocks
- drivers/liebert-esp2.c: fix indentation
- drivers/nutdrv_atcl_usb.c: do not warn about nonliteral format string in this case
- drivers/richcomm_usb.c: do not warn about nonliteral format string in this case
- drivers/snmp-ups.c: various routines: do not warn about nonliteral format string in these cases
- drivers/nutdrv_qx_voltronic.c: various routines: do not warn about nonliteral format string in these cases
- drivers/nutdrv_qx.c: do not warn about nonliteral format string in this case
- drivers/powerp-bin.c: do not warn about nonliteral format string in this case
- drivers/usbhid-ups.c: do not warn about nonliteral format string in this case
- drivers/liebert-esp2.c: do not warn about nonliteral format string in these cases
- drivers/liebert-esp2.c: rename scope-local *val* variables that shadow another from same routine
- drivers/belkinunv.c: do not warn about nonliteral format string in this case
- drivers/bcmxcp.c: do not warn about nonliteral format string in this case
- drivers/serial.c: various routines: do not warn about nonliteral format string in these cases
- clients/upsset.c: clients/drivers: error_page(): do not warn about nonliteral format string in this case
- clients/upsmon.c: clients/drivers: do_notify(): do not warn about nonliteral format string in this case
- clients/upsimage.c: clients/drivers: drawbar() noimage(): do not warn about nonliteral format string in this case
- clients/upsclient.c: build_cmd(): do not warn about nonliteral format string in this case
- clients/upsclient.c: upscli_strerror(): do not warn about nonliteral format string in this case
- tools/nut-scanner/nutscan-display.c: declare nutscan_device_type_string[] file-local variable as static, and fix its indentation
- clients/nutclient.h, tests/nutclienttest.cpp: tests/nutclienttest.cpp: add tests on Device, Variable and Command copying by assignment and by constructor

2.1265 2020-11-24 Jim Klimov <jim@jimklimov.com>

- .travis.yml: Issue #823 follow-up: add s390x (BigEndian) builds in Travis CI
- clients/nutclient.cpp: whitespace fixes (indentations, blank lines)
- clients/nutclient.h: whitespace fixes (indentations)
- .travis.yml: run gnu17-clang-8-nowarn-ARM-64bit case in fightwarn branches
- .travis.yml: annotate clearer the different allowed_failure OS build sections
- .travis.yml: point all GCC -std=*++99 to *-98 I thought it was an older GCC quirk, but even new ones complain: g++: error: unrecognized command-line option *-std=gnu++99*; did you mean *-std=gnu++98*? g+\+ (FreeBSD Ports Collection) 10.0.0 20191222 (experimental) Copyright © 2019 Free Software Foundation, Inc. This is free software; see the source for copying conditions. There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2.1266 2020-11-23 Jim Klimov <jim@jimklimov.com>

- .travis.yml: work around poor packaging of multilib perl in ubuntu
- .travis.yml: define a &deps_driverlibs_cross_i386 list for cross-builds (x86 32-bit)
- .travis.yml: for x86-32 builds with gnu17 standard, try to change install order for g+\+-multilib
- .travis.yml: for x86-32 builds with gnu99 standard, avoid g+\+-multilib
- ci_build.sh: warn if libgd is not seen and a "default-all-errors" build might go without CGI binaries
- drivers/snmp-ups.c, drivers/snmp-ups.h: drivers/snmp-ups*.{c,h}: export *_info vars to avoid not-used allegations
- drivers/apcupsd-ups.h: comment away status_info[] as currently un-used
- drivers/riello.c, drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c: drivers/riello*.{c,h}: properly export variables shared between driver subtypes
- drivers/nut-libfreeipmi.c: comment away ipmi_config as currently un-used
- drivers/mge-xml.c, drivers/netxml-ups.c, drivers/netxml-ups.h: drivers/netxml/mge-xml*.{c,h}: export shutdown_duration more usefully
- drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c: drivers/riello*.{c,h}: export get_ups_statuscode() to avoid not-used allegations
- drivers/libshut.c: fix pre-declaration of LIBshut_set_report()
- drivers/al175.c: declare ACT methods to keep compiler happy even if some are not currently used
- drivers/bcmxcp.c: comment away FreqTol as currently un-used
- tools/nut-scanner/nutscan-display.c: use nut-scan.h header
- tools/nut-scanner/nutscan-init.c: tools/nut-scanner/nutscan-init.h: use its own header
- server/netcmds.h: declare function(non-void!) prototype explicitly
- .travis.yml: mark gnuXX-gcc-*-arm64 test cases as evergreen
- .travis.yml: separate ARM64 test case matrices into . . . _viable and . . . _fatal subsets
- .travis.yml: introduce NUT_MATRIX_TAG="gnu17-gcc-9-nowarn-ARM-64bit" test case
- .travis.yml: drop gcc-multilib in ARM builds, seems missing in Debian
- .travis.yml: drop arm-32bit builds, seems a no-go on Travis quickly

- .travis.yml: Issue #823 follow-up: add ARM 32-bit and 64-bit builds in Travis CI
- m4/nut_report_feature.m4: report the compiler tools and flags ultimately applied to this build
- .gitignore: GitIgnore configure-test.docbuild* dirs
- .travis.yml: separate the matrix for _matrix_freebsd_gnustd_warn_viable and . . . _fatal cases
- .travis.yml: mark "gnuXX-gcc-freebsd-warn" cases as evergreen to keep that way
- .travis.yml: on freebsd, `pkg install libgd` explicitly (needs sudo)
- .travis.yml: introduce freebsd test cases with warnings (typo fix)

2.1267 2020-11-22 Jim Klimov <jim@jimklimov.com>

- clients/nutclient.h: declare strarr routines to be seen
- tools/nut-scanner/scan_xml_http.c: expose load_library() routine
- server/netcmds.h: declare function(void) prototype explicitly
- tools/nut-scanner/scan_snmp.c: expose load_library() routine
- clients/upslog.h: declare function(non-void*) prototype explicitly
- tools/nut-scanner/scan_eaton_serial.c: declare multiple file-local routines as static
- tools/nut-scanner/scan_avahi.c: expose load_library() routine
- tools/nut-scanner/scan_usb.c: expose load_library() routine
- tools/nut-scanner/scan_ipmi.c: declare a file-local routine as static
- tools/nut-scanner/scan_nut.c: expose load_library() routine
- tools/nut-scanner/scan_ipmi.c: expose load_library() routine
- drivers/nut-ipmi.h: declare function(void) prototype explicitly
- drivers/apcsmart.c: declare multiple file-local routines as static
- drivers/powercom.c: declare multiple file-local variables as static
- drivers/oneac.c: declare multiple file-local routines as static
- drivers/libshut.c: declare multiple file-local routines as static
- drivers/microdowell.c: rectify whitespaces (indentations and blank lines)
- drivers/microdowell.c: declare multiple file-local routines as static
- drivers/microdowell.c: declare a driver-local variable as static
- drivers/metasys.c: declare multiple file-local routines as static
- drivers/isbmex.c: declare multiple file-local routines as static
- drivers/gamatronic.c: do not mark common routine as static
- drivers/gamatronic.c: declare multiple file-local routines as static
- drivers/bestfortress.c: declare a file-local routine as static
- drivers/bestfcom.c: declare multiple file-local routines as static
- drivers/bestfcom.c: declare a driver-local variable as static

- drivers/bcmxcp_ser.c: declare a file-local routine as static
- drivers/al175.c: declare multiple file-local routines as static
- server/conf.c: declare a file-local variable as static
- server/user.c: declare multiple file-local variables as static, and fix their indentation
- server/upsd.c: declare multiple file-local routines as static
- server/upsd.c: declare multiple file-local variables as static, and fix their indentation
- server/netcmds.h: declare a file-local variable as static
- tools/nut-scanner/nutscan-serial.c: declare a file-local variable as static
- tools/nut-scanner/nut-scan.h: declare function(void) prototype explicitly
- tools/nut-scanner/nutscan-device.h: declare function(void) prototype explicitly
- tools/nut-scanner/scan_snmp.c: declare multiple file-local variables as static
- tools/nut-scanner/nut-scanner.c: declare a file-local routine as static
- tools/nut-scanner/nut-scanner.c: declare multiple file-local variables as static
- drivers/nut-libfreeipmi.c: declare function(void) prototype explicitly
- drivers/nut-libfreeipmi.c: declare multiple file-local variables as static
- drivers/nut-ipmipsu.c: declare multiple file-local variables as static
- drivers/powerman-pdu.c: declare multiple file-local variables as static
- drivers/netxml-ups.c: declare a driver-local variable as static
- drivers/bcmxcp_usb.c: declare multiple file-local variables as static
- drivers/apc-hid.c: declare multiple file-local variables as static
- drivers/emerson-avocent-pdu-mib.c: declare multiple file-local variables as static
- drivers/masterguard.c: declare multiple file-local variables as static
- drivers/Makefile.am, drivers/bcmxcp_ser.c, drivers/bcmxcp_ser.h, tools/nut-scanner/scan_eaton_serial.c: Introduce bcmxcp_ser.h to provide as extern some variables from the driver also used in nut-scanner
- drivers/raritan-px2-mib.c: declare a driver-local variable as static
- drivers/snmp-ups.h: clients/snmp-ups.h: declare some setter/getter routines to be seen
- drivers/snmp-ups.h: declare function(void) prototype explicitly
- drivers/snmp-ups.c: declare multiple file-local routines as static
- drivers/snmp-ups.c: declare multiple file-local variables as static
- drivers/nutdrv_qx_bestups.c: declare multiple file-local variables as static
- drivers/riello_usb.c: declare multiple file-local routines as static
- drivers/riello_usb.c: declare multiple file-local variables as static
- drivers/riello_ser.c: declare multiple file-local routines as static
- drivers/riello_ser.c: declare multiple file-local variables as static
- drivers/riello.h: declare function(void) prototype explicitly

- drivers/riello.c: declare multiple file-local variables as static
- drivers/apcupsd-ups.h: declare a driver-local variable as static
- drivers/apcsmart-old.h: declare multiple file-local variables as static
- drivers/victronups.c: declare multiple file-local variables as static
- drivers/mge-hid.c: declare multiple file-local variables as static
- drivers/mge-hid.c: end all info_lkp_t arrays with sentinel entries
- drivers/apc-hid.h, drivers/libhid.h: Move "extern int max_report_size;" declaration from drivers/apc-hid.h to more suitable drivers/libhid.h
- drivers/mge-utalk.c: declare a driver-local variable as static
- drivers/mge-utalk.h: declare a driver-local variable as static
- drivers/metasys.c: declare multiple file-local variables as static
- drivers/tripplite_usb.c: declare multiple file-local routines as static
- tools/nut-scanner/nutscan-serial.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/nutdrv_qx_voltronic-qs-hex.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/nutdrv_qx_voltronic-qs.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/nutdrv_qx_mecer.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/nutdrv_qx_blazer-common.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/nutdrv_qx_bestups.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/apcupsd-ups.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/blazer.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/powerp-txt.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/mge-utalk.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/bestfortress.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/serial.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/dstate.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- clients/upssched.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- common/common.c: fix diags pragmas to use our configured-support macros for cleaner fencing (nonliteral format strings)
- drivers/gamatronic.c: rectify whitespaces (indentations and blank lines)
- include/timehead.h: satisfy pedantic macro parser (defined vs. used value)
- m4/ax_c_pragmas.m4: alarm if bogus tests did not fail
- m4/ax_c_pragmas.m4: adapt to gcc vs clang CLI capabilities

- configure.ac, m4/nut_compiler_family.m4: Introduce m4/nut_compiler_family.m4 detection
- drivers/tripplite_usb.c: fix diags pragmas to use our configured-support macros for cleaner fencing (unreachable code)
- drivers/nutdrv_atcl_usb.c: fix diags pragmas to use our configured-support macros for cleaner fencing (unreachable code)
- drivers/libusb.c: fix diags pragmas to use our configured-support macros for cleaner fencing (unreachable code)
- drivers/richcomm_usb.c: fix diags pragmas to use our configured-support macros for cleaner fencing (unreachable code)
- configure.ac, m4/ax_c_pragmas.m4: Introduce m4/ax_c_pragmas.m4
- .travis.yml: curiously, gcc-7 in Travis does not alias -std=gnu++99 to canonic gnu\+\+98
- autogen.sh: do not hide the progress of autoreconf
- ci_build.sh: fix whitespace
- ci_build.sh: parameterize $CONFIGURE_SCRIPT as it may be called differently on some platforms
- .travis.yml: amend cygwin bin files ACLs to let them execute Thanks https://stackoverflow.com/a/4493653/4715872 for the hint
- .travis.yml: use choco bins in PATH also with /cygdrive/ prefix just in case
- .travis.yml: use cygwin bins in PATH also with /cygdrive/ prefix just in case
- .travis.yml: allow to skip cygwin autotools install if it was done earlier and cached
- .travis.yml: add _matrix_freebsd_gnustd_warn to _matrix_freebsd
- .travis.yml: introduce freebsd test cases with nowarn and gnu17
- .travis.yml: introduce freebsd test cases with warnings
- .travis.yml: mark "gnu99-gcc-freebsd-nowarn" and "gnu99-clang-freebsd-nowarn" as required
- ci_build.sh: as of now, skip building cgi (needs libgd) on freebsd too, for "default-all-errors" test cases
- .travis.yml: define simple freebsd scenarios

2.1268 2020-11-21 Jim Klimov <jim@jimklimov.com>

- .travis.yml: use cygwin bins as last resort (e.g. for autoconf)
- .travis.yml: Revert ".travis.yml: run Windows test cases with cygwin bash" This reverts commit 4592860aa82a208969eb1ae3ac2ec1f9

2.1269 2020-11-20 Jim Klimov <jim@jimklimov.com>

- .travis.yml: explicit support on 64-bit Debianish systems for "gcc -m32" at least appears with gcc-multilib and g+\+-multilib packages
- common/upsconf.c: conf_args(): fix numargs type
- common/str.c: str_to_{u,}short{,_strict}() routines: explicit cast from temporary variable to return-value type
- common/common.c: common/common.c: snprintfcat(): replace asserts by negative returns (and errno where applicable)
- common/common.c: common/common.c: snprintfcat(): sort out the messy return types (avoid implicit cast in verification assert)
- drivers/genericups.h: declare a driver-local variable as static
- drivers/gamatronic.h: declare multiple file-local variables as static

- drivers/bestuferrups.c: declare a driver-local variable as static
- drivers/dummy-ups.c: declare multiple file-local variables as static
- drivers/dummy-ups.h: declare a driver-local variable as static
- drivers/bestuferrups.c: declare a file-local variable as static
- drivers/bestfortress.c: declare a file-local variable as static
- drivers/belkinunv.c: declare multiple file-local variables as static
- drivers/bcmxcp_ser.c: declare multiple file-local variables as static
- drivers/bcmxcp.c: declare multiple file-local variables as static
- drivers/main.c: declare multiple file-local variables as static, and fix their indentation
- clients/upssched.c: declare multiple file-local variables as static, and fix their indentation
- clients/upsmon.h: declare file-local variable as static: struct notifylist[]
- clients/upsset.c: declare multiple file-local variables as static, and fix their indentation
- clients/upsimagearg.h: declare file-local variable as static: struct imgarg[]
- clients/status.h: declare file-local variable as static: struct stattab[]
- clients/upslog.h: declare file-local variable as static: struct logcmds[]
- clients/upsclient.c: declare file-local variable as static: struct upscli_errlist[]
- common/common.c: various routines: do not warn about nonliteral format string in these cases
- drivers/gamatronic.c: fix indentation and scope whitespace
- drivers/gamatronic.c: fix trailing whitespace
- common/common.c: cleaner macro processing for BUILD_64
- drivers/nutdrv_atcl_usb.c: do not warn about unreachable code where we handle a legacy off-chance that fatalx() might not exit the program
- drivers/richcomm_usb.c: do not warn about unreachable code where we handle a legacy off-chance that fatalx() might not exit the program
- drivers/libusb.c: do not warn about unreachable code where we handle a legacy off-chance that fatalx() might not exit the program
- server/upsd.c: a move "help" switch() handling to default case
- server/upsd.c: a switch() default needs no break
- drivers/upsdrvctl.c: a switch() default needs no break
- drivers/riello_usb.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- drivers/blazer_usb.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- drivers/tripplite_usb.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- drivers/tripplite_usb.c: control_outlet(): do not warn about syntactic "break;" after returns in conditionals
- drivers/usbhid-ups.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now

- drivers/metasys.c: a switch() default needs no break, especially not after fatalx()
- drivers/dummy-ups.c: a switch() default needs no break, especially not after fatalx()
- .gitignore: GitIgnore temporary dirs made by configure script (remain around if it is aborted)
- clients/upsmon.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- clients/upsmon.c: wrap unreachable switch()-break after help() with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid warnings
- clients/upslog.c: wrap unreachable switch()-break after help() with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid warnings
- clients/upscmd.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- clients/upsc.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- server/upsd.c: wrap unreachable exit() added due to earlier compiler warnings with "ifndef HAVE_*ATTRIBUTE*NORETURN" to avoid opposite warnings now
- include/attribute.h: align with AX_C_*ATTRIBUTE* autoconf macro
- m4/ax_c_*attribute*.m4: extend to declare support for certain *attribute*... use-cases of interest to NUT
- configure.ac, m4/ax_c_*attribute*.m4: configure.ac: introduce AX_C_*ATTRIBUTE* from gnu.org
- server/upsd.c: annotate help() with noreturn attr
- drivers/nut-ipmipsu.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/bcmxcp_usb.c: annotate nutusb_open_error() with noreturn attr
- drivers/bcmxcp_usb.c: fix indenting whitespace
- drivers/riello_ser.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/blazer.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/dummy-ups.c: annotate upsdrv_shutdown() with noreturn attr
- clients/upsmon.c: annotate several routines with noreturn attrs
- clients/upsmon.c: help(): do not shadow global varname "progname" with same-named func argument
- clients/upsset.c: annotate several routines with noreturn attrs
- clients/upsimage.c: annotate drawimage() with noreturn attr
- clients/upslog.c: annotate help() with noreturn attr

2.1270 2020-11-19 Jim Klimov <jim@jimklimov.com>

- .travis.yml: for windows builds, add /C/tools/cygwin/bin to PATH
- .travis.yml: define a NUT_MATRIX_TAG="gnu99-clang-win-warn" test case for completeness

2.1271 2020-11-18 Jim Klimov <jimklimov@gmail.com>

- scripts/Solaris/precheck.py: modernize calling sub-processes for Python 2.6\+ and 3+ (keep original way for older systems compat)

2.1272 2020-11-18 Jim Klimov <jim@jimklimov.com>

- drivers/tripplite.c: upsdrv_initinfo(): use a literal format string
- tools/nut-scanner/nutscan-serial.c: do not warn about nonliteral format string in this case
- drivers/nutdrv_qx_voltronic-qs-hex.c: various routines: do not warn about nonliteral format string in these cases
- drivers/nutdrv_qx_voltronic-qs.c: do not warn about nonliteral format string in this case
- drivers/nutdrv_qx_mecer.c: various routines: do not warn about nonliteral format string in these cases
- drivers/nutdrv_qx_blazer-common.c: various routines: do not warn about nonliteral format string in these cases
- drivers/nutdrv_qx_bestups.c: various routines: do not warn about nonliteral format string in these cases
- drivers/apcupsd-ups.c: do not warn about nonliteral format string in this case
- drivers/blazer.c: various routines: do not warn about nonliteral format string in these cases
- drivers/powerp-txt.c: do not warn about nonliteral format string in this case
- drivers/mge-utalk.c: various routines: do not warn about nonliteral format string in this case
- drivers/bestfortress.c: setinfo_float(): comment about a casting problem, and do not warn about nonliteral format string in this case
- drivers/bestfortress.c: do not warn about nonliteral format string in this case
- drivers/serial.c: do not warn about nonliteral format string in this case
- drivers/dstate.c: various routines: do not warn about nonliteral format string in this case
- clients/upssched.c: send_to_one(): do not warn about nonliteral format string in this case
- .travis.yml: fix typo in recent fix for clang warnings
- drivers/dstate.h: dstate_setaux(): fix missed type change for "aux"
- drivers/dstate.c: dstate_setaux(): fix missed type change for "aux"
- .gitignore: GitIgnore NetBeans project directory

2.1273 2020-11-17 Jim Klimov <jim@jimklimov.com>

- drivers/phoenixcontact_modbus.c: mrir(): do not shadow global varname "ctx" with same-named func argument
- drivers/usbhid-ups.c: possibly_supported(): do not shadow global varname "hd" with func argument "hd"
- drivers/riello_ser.c: riello_serialcomm(): do not shadow global varname "bufIn" with same-named func argument
- tools/nut-scanner/scan_eaton_serial.c: shut_synchronise(): do not shadow global varnames "upsfd" (from scan_eaton_serial.c and main.c) with func argument "upsfd"
- clients/nutclient.cpp, clients/nutclient.h: nutclient.cpp: match a copy constructor with a copy assignment operator (Device, Variable, Command classes)
- common/common.c: snprintfcat(): do not warn about nonliteral format string in this case
- server/upsd.c: help(): do not shadow global varnames "progname" (from upsd.c and main.c) with func argument "progname"
- drivers/upsdrvctl.c: annotate help() with noreturn attr
- drivers/macosx-ups.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/nutdrv_qx.c: annotate upsdrv_shutdown() with noreturn attr

- drivers/apcupsd-ups.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/ivtscd.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/clone.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/skel.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/liebert.c: annotate upsdrv_shutdown() with noreturn attr
- drivers/serial.c: annotate ser_open_error() with noreturn attr
- drivers/dstate.c: annotate sock_fail() with noreturn attr
- drivers/main.c: annotate forceshutdown() with noreturn attr
- common/parseconf.c: annotate pconf_fatal() with noreturn attr
- scripts/augeas/gen-nutupsconf-aug.py: drop unused variables Originally PR meant to drop "global" modifier outside a local function context, but found that nothing defines or uses these three names. Must be some leftover from planned but unfinished development. Re-ran ./autogen.sh and it generates the same file for the build.
- drivers/powerman-pdu.c: query_one() query_all(): do not shadow global varname "pm" with same-named func argument
- drivers/tripplite_usb.c: subdriver_match_func(): do not shadow global varname "hd" with func argument "hd"
- drivers/mge-xml.c: numerous routines: do not shadow global varname "val" (for XML element temp store?) with same-named func argument
- drivers/netxml-ups.c: send_http_request(): do not shadow global varnames "session" and "uri" with func arguments
- drivers/upscode2.c: upscode2.c: upsc_setstatus(): do not shadow global varname "status" with func argument "status"
- drivers/usbhid-ups.c: callback(): do not shadow global varname "udev" with func argument "udev"
- drivers/usbhid-ups.c: callback(): do not shadow global varname "hd" with func argument "hd"
- drivers/riello.c: riello_calc_CRC(): change data type to fix comparisons
- drivers/powercom.c: output_voltage(): avoid a multiplication overflow by casting
- server/upsd.c: upsd.c: actually include signal.h from system
- common/common.c: upsdebug_hex() / upsdebug_ascii(): fix const-ness of buf casting
- common/common.c: get_libname(): fix type to receive strlen()
- common/state.c, drivers/dstate.c, include/state.h, server/netget.c: state.c dstate.c etc.: fix st_tree_t→aux to "long" as we convert via strtol()
- common/parseconf.c: addchar(): signedness-aware trim of ctx→ch range
- common/common.c: mark search_paths[] as a static array
- common/common.c: snprintfcat(): sort out the messy return types
- common/common.c: sendsignalfn(): fix pid to "long" as we convert via strtol()
- common/common.c: writepid(): fix data type for umask()
- common/parseconf.c: parseconf.c: add_arg_word(): fix argpos to size_t, we do not expect negative offsets
- clients/upsclient.c, clients/upsclient.h, common/common.c, drivers/apcsmart.c, drivers/serial.c, drivers/serial.h, include/common.h: common, serial, upsclient: change read() and write() operations from "int" to "ssize_t"
- include/attribute.h: satisfy pedantic macro parser (defined vs. used value)
- drivers/powercom.c: do not check "if model >= 2000" just after processing "model < 2000"

- drivers/pijuice.c: do not check for "powerInput5vIo ⇐ POWER_PRESENT" twice in a row
- drivers/bcmxcp.c: do not check for "value>=0" when we pick it from "unsigned char[]" answer
- common/common.c: search_paths[]: comment the reasoning (see also issue NUT #805)
- drivers/apcupsd-ups.c: comment about htons() return value range (why I did not fix an "x<0" check)
- .travis.yml: run Windows test cases with cygwin bash
- .travis.yml: add at least a cygwin automake to Windows test cases
- .travis.yml: limit builds on xcode7.x to C11
- include/parseconf.h: fix trailing whitespace
- .travis.yml: mark clang builds with fatal warnings, additionally with -Wno-reserved-id-macro -Wno-padded to play around system header issues
- drivers/solis.c: convert from localtime() to localtime_r() which is thread-safe
- drivers/rhino.c: convert from localtime() to localtime_r() which is thread-safe
- drivers/microdowell.c: convert from localtime() to localtime_r() which is thread-safe
- drivers/mge-hid.c: convert from localtime() to localtime_r() which is thread-safe
- clients/upsstats.c: convert from localtime() to localtime_r() which is thread-safe
- clients/upslog.c: convert from localtime() to localtime_r() which is thread-safe

2.1274 2020-11-16 Jim Klimov <jim@jimklimov.com>

- .gitignore: GitIgnore .gdb_history files
- .gitignore: GitIgnore conf??????/ temporary directories that can remain if configure script is aborted
- .gitignore: GitIgnore conf_nut_report_feature file (made by m4/nut_report)
- configure.ac: rephrase the notice about looking for required C library routines which are beyond strict C standards
- configure.ac, m4/nut_stash_warnings.m4: Introduce m4/nut_stash_warnings.m4 and NUT_STASH_WARNINGS and NUT_POP_WA in configure.ac
- ci_build.sh: build_to_only_catch_errors(): also report on `make check` with the current test case
- .travis.yml: Revert ".travis.yml: DISABLE test case "gnu99-clang-5.0-nowarn": it has some problem with the recently changed "tests/" (and runs clang-7 anyway as it does not use the PPA for 5.0)" This reverts commit 4749e0b26a33990dbd7bb56ff863cfc30db424 as we can now have this test case working again.
- configure.ac: do not pick C\+\+11 support if a standard is explicitly requested by caller; fixes NUT issue #873
- .travis.yml: fix test cases for NUT_MATRIX_TAG="**-clang-5.0-**" to actually use clang-5.0 explicitly

2.1275 2020-11-15 Jim Klimov <jim@jimklimov.com>

- .travis.yml: mark test-case "gnu17-gcc-9-warn" as passing now
- .travis.yml: add libnss3-dev and libssl-dev to test against both SSL implems
- .travis.yml: DISABLE test case "gnu99-clang-5.0-nowarn": it has some problem with the recently changed "tests/" (and runs clang-7 anyway as it does not use the PPA for 5.0)
- drivers/snmp-ups.c, m4/nut_check_libnetsnmp.m4: drivers/snmp-ups.c: fix the warning about how we get the size of usmAES128PrivProtocol
- ci_build.sh: configure_nut(): sleep more before data dump so interactive devs can react to the broken configure run
- ci_build.sh: build_to_only_catch_errors(): report a SUCCESS when we have one
- ci_build.sh: allow caller to customize their PKG_CONFIG_PATH
- tests/Makefile.am: fix include dir for cppunittest
- server/netssl.c: comment about non-fatal build warnings from NSS include names we use
- server/netssl.c: mark up NUT_UNUSED_VARIABLEs for build with Mozilla NSS
- clients/upsclient.c: mark up NUT_UNUSED_VARIABLEs for build with Mozilla NSS
- m4/nut_check_libnss.m4: nut_check_libnss.m4 : warn that nss.pc is more sensitive to matching PKG_CONFIG_PATH and build bitness than others
- ci_build.sh: ci_build.sh : enable SSL build variants of "default-all-errors" with both OpenSS and Mozilla NSS
- m4/nut_check_libnetsnmp.m4: pick correct bitness net-snmp-config-{32,64} script if available

2.1276 2020-11-14 Jim Klimov <jim@jimklimov.com>

- tests/Makefile.am: fix include dir for nutlogtest

2.1277 2020-11-13 Jim Klimov <jim@jimklimov.com>

- tests/cpputest.cpp: tests/cpputest.cpp : wrap the test run to catch exceptions, if any
- tests/cpputest.cpp: tests/cpputest.cpp : comment the progress through steps
- tests/cpputest.cpp: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- tests/Makefile.am: tests/Makefile.am : comment the cases where we do not compile CXX tests
- tests/Makefile.am, tests/nutlogtest.c: Introduce tests/nutlogtest.c for upslog*() and friends

2.1278 2020-11-12 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict
- docs/acknowledgements.txt: Update acknowledgements.txt Do not constrain contribution from EVER Power Systems to one person

2.1279 2020-11-12 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: nut.dict: spellcheck new keywords around "fightwarn" chapter

2.1280 2020-11-12 Jean-Baptiste Boric <Jean-BaptisteBORIC@Eaton.com>

- drivers/main.c: Fix faulty dump mode logic

2.1281 2020-11-11 Jim Klimov <jim@jimklimov.com>

- docs/developers.txt: document NUT_UNUSED_VARIABLE()

2.1282 2020-11-10 Jim Klimov <jim@jimklimov.com>

- configure.ac: make checks for "Required C library routine" not fatal: -Wall -Werror frowns upon the ways autotools probe the system
- configure.ac: detect routines that may be not available in constrained standard-C modes
- .travis.yml: .travis.yml (#823) : green-light several GCC test cases that now pass even with all warnings enabled as fatal
- clients/upsset.c: refine whitespace
- docs/developers.txt: detail how to use ci_build.sh intended for Travis CI to work on fixing stuff locally
- configure.ac: configure.ac : detect abs() and fabs() funcs
- include/common.h: include/common.h : drop NUT_UNUSED and NUT_UNUSED_FUNCTION macros as not portable enough
- drivers/mge-hid.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/tripplite-hid.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/richcomm_usb.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/serial.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/bestfcom.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/dummy-ups.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/usbhid-ups.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/apcsmart-old.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/nutdrv_atcl_usb.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/cps-hid.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/apcsmart.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/bestfortress.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/bcmxcp_usb.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/nutdrv_qx.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/tripplite_usb.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/blazer_usb.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/upsdrvctl.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/apc-hid.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/nutdrv_qx_voltronic.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner

- drivers/riello_usb.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/explore-hid.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/liebert-esp2.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- server/upsd.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- clients/upssched.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- clients/upsset.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- clients/upsimage.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- clients/upsstats.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- clients/upslog.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- clients/upsmon.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- tools/nut-scanner/scan_eaton_serial.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- tools/nut-scanner/nut-scanner.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- tools/nut-scanner/scan_avahi.c: mark up NUT_UNUSED_VARIABLEs in the more portable manner
- drivers/libshut.c, drivers/riello_ser.c, drivers/snmp-ups.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_snmp.c: libshut.c riello_ser.c nut-scanner bits: abolish non-standard u_char and u_short Probably standard C99 "uint8_t" and 16(?) bit short would be more proper, especially for serial-line protocols. But the original code used types derived from hardware implementation sized "char" and "short" - so they stayed this way here.
- drivers/riello_usb.c: avoid implicit switch fall-through
- clients/upsc.c: avoid implicit switch fall-through
- clients/upscmd.c: avoid implicit switch fall-through
- drivers/nutdrv_qx.c: avoid implicit switch fall-through
- drivers/usbhid-ups.c: avoid implicit switch fall-through
- drivers/blazer_usb.c: avoid implicit switch fall-through
- server/upsd.c: add blank lines for readability of opts processing switch
- server/upsd.c: avoid implicit switch fall-through
- clients/upsstats.h: wrap with include-guards
- clients/upssched.h: wrap with include-guards
- clients/upsmon.h: wrap with include-guards
- clients/upslog.h: wrap with include-guards
- clients/upsimagearg.h: wrap with include-guards
- clients/status.h: wrap with include-guards
- clients/cgilib.h: wrap with include-guards
- drivers/tripplite.h: wrap with include-guards
- drivers/safenet.h: wrap with include-guards
- drivers/riello.h: reword the wrap with include-guards
- drivers/powercom.h: wrap with include-guards

- drivers/mge-utalk.h: include/mge-utalk.h: wrap with include-guards
- drivers/oneac.h: wrap with include-guards
- drivers/main.h: reword the wrap with include-guards
- drivers/libusb.h: reword the wrap with include-guards
- drivers/libshut.h: reword the wrap with include-guards
- drivers/libhid.h: reword the wrap with include-guards
- drivers/hidparser.h: reword the wrap with include-guards
- drivers/genericups.h: wrap with include-guards
- drivers/gamatronic.h: wrap with include-guards and fix trailing whitespace
- drivers/dummy-ups.h: wrap with include-guards
- drivers/apcupsd-ups.h: wrap with include-guards
- drivers/apcsmart_tabs.h: reword the wrap with include-guards
- drivers/apcsmart.h: reword the wrap with include-guards
- drivers/apcsmart-old.h: wrap with include-guards
- include/upsconf.h: wrap with include-guards
- include/upsconf.h: add © and license header
- include/upsconf.h: refine whitespace
- include/timehead.h: add © and license header
- include/timehead.h: wrap with include-guards
- include/str.h: reword the wrap with include-guards
- include/state.h: reword the wrap with include-guards
- include/proto.h: add © and license header
- include/proto.h: reword the wrap with include-guards
- include/nut_stdint.h: reword the wrap with include-guards
- include/nut_platform.h: reword the wrap with include-guards
- include/extstate.h: add © and license header
- include/extstate.h: reword the wrap with include-guards
- include/extstate.h: refine whitespace
- include/common.h: reword the wrap with include-guards
- include/attribute.h: add © and license header
- include/attribute.h: reword the wrap with include-guards
- server/user.h: update © and license header
- server/user.h: wrap with include-guards
- server/user-data.h: update © and license header
- server/user-data.h: wrap with include-guards

- server/upstype.h: reword the wrap with include-guards
- server/stype.h: reword the wrap with include-guards
- server/sstate.h: reword the wrap with include-guards
- server/nut_ctype.h: protect header files for C+\+ inclusion
- server/netuser.h: wrap with include-guards
- server/netuser.h: add © and license header
- server/netssl.h: reword the wrap with include-guards
- server/netset.h: wrap with include-guards
- server/netset.h: add © and license header
- server/netmisc.h: wrap with include-guards
- server/netmisc.h: add © and license header
- server/netcmds.h: add © and license header
- server/netlist.h: wrap with include-guards
- server/netlist.h: add © and license header
- server/netinstcmd.h: wrap with include-guards
- server/netinstcmd.h: add © and license header
- server/netget.h: wrap with include-guards
- server/netget.h: add © and license header
- server/neterr.h: protect header files for C+\+ inclusion
- server/neterr.h: wrap with include-guards
- server/neterr.h: add © and license header
- server/netcmds.h: wrap with include-guards
- server/desc.h: add © and license header
- server/desc.h: wrap with include-guards
- server/conf.h: update © and license header
- server/conf.h: wrap with include-guards

2.1283 2020-11-09 Jim Klimov <jimklimov@gmail.com>

- docs/nut.dict: Update nut.dict Add EVER Sinline model name

2.1284 2020-11-09 Jim Klimov <jim@jimklimov.com>

- drivers/rhino.c: drop extraneous parentheses
- drivers/nutdrv_qx.h: avoid a trailing comma in enum list (C89)
- drivers/asem.c: drivers/al175.c: update Linux i2c include mesh (thanks to pijuice.c)
- drivers/pijuice.c: set_power_off(): drop unused "data"
- drivers/pijuice.c: avoid setting "data" during a write Compiler warnings resolved this puzzle: [2020-11-09 15:10:38] [build-err] pijuice.c:737:2: note: in expansion of macro ‘I2C_WRITE_BYTE’ [2020-11-09 15:10:38] [build-err] 737 \| I2C_WRITE_BYTE(upsfd, cmd, shutdown_delay, *func*) [2020-11-09 15:10:38] [build-err] | ~~~~~~ [2020-11-09 15:10:38] [build-err] pijuice.c:710:10: warning: variable ‘data So we did not need to set it at all, can go to simple anonymous negative-return check.
- drivers/pijuice.c: use "__s32" de-facto in headers instead of "s32" from manpages
- drivers/pijuice.c: rearrange I2C_*() macros to catch -1 error codes while fetching unsigned ints
- drivers/apcsmart.c: fix variadic macro logx() call to accomodate modern standards
- drivers/apcsmart.c: fix variadic macro logx() call to accomodate modern standards
- drivers/apcsmart.c: fix variadic macro debx() call to accomodate modern standards
- drivers/pijuice.c: set_poweroff(): fix limited value range exceeded
- drivers/pijuice.c: replace *FUNCTION* by *func* to avoid warnings error: ISO C does not support FUNCTION predefined identifier [-Werror=pedantic]
- drivers/bcmxcp.c: bump string buffer size to avoid potential overflows If we have some bug getting outlet numbers into billions (int at 64-bit) the string might overflow indeed. . .
- drivers/al175.c: document a warning to address later
- drivers/snmp-ups.c: avoid warning: control may reach end of non-void function

2.1285 2020-11-08 Jim Klimov <jimklimov@gmail.com>

- docs/developers.txt: Update developers.txt Another spellcheck fix
- docs/developers.txt: Update developers.txt Avoid "quiesce" to satisfy the spellchecker

2.1286 2020-11-08 Jim Klimov <jim@jimklimov.com>

- drivers/nutdrv_atcl_usb.c: avoid implicit switch fall-through
- .travis.yml: our code (and checks) should not rely on specific compiler features; implicit switch FALLTHRU was solved by explicit goto jumps
- docs/nut.dict: update for conf/upsstats-single.html.sample
- docs/developers.txt: avoid spellcheck warning
- drivers/eaton-pdu-marlin-mib.c: rearrange phases_nb and sanity-check the value to debug-log unexpectancies
- drivers/eaton-pdu-marlin-mib.c: sanity-check the outlet_group_nb (not negative)
- drivers/blazer_usb.c: upsdrv_initups(): constrain langid_fix scanned values to fit into signed int
- drivers/netxml-ups.c: rearrange sscanf() of inputs to avoid wrong int values
- drivers/belkin-hid.c: use fabs() for floating-point math

- drivers/belkin-hid.c: use fabs() for floating-point math
- drivers/netxml-ups.c: instcmd(): find a use for "extra"
- drivers/riello_usb.c: instcmd(): find a use for "extra"
- drivers/tripplite_usb.c: instcmd(): find a use for "extra"
- drivers/mge-xml.c: mark up NUT_UNUSED_VARIABLEs
- drivers/netxml-ups.c: mark up NUT_UNUSED_VARIABLEs
- drivers/nutdrv_atcl_usb.c: mark up NUT_UNUSED_VARIABLEs
- drivers/riello_usb.c: mark up NUT_UNUSED_VARIABLEs
- drivers/richcomm_usb.c: mark up NUT_UNUSED_VARIABLEs
- drivers/blazer_usb.c: mark up NUT_UNUSED_VARIABLEs
- drivers/tripplite_usb.c: mark up NUT_UNUSED_VARIABLEs
- drivers/bcmxcp_usb.c: mark up NUT_UNUSED_VARIABLEs
- drivers/tripplite-hid.c: mark up NUT_UNUSED_VARIABLEs
- drivers/explore-hid.c: mark up NUT_UNUSED_VARIABLEs
- drivers/explore-hid.c: a few whitespace fixes
- drivers/cps-hid.c: mark up NUT_UNUSED_VARIABLEs
- drivers/usbhid-ups.c: mark up NUT_UNUSED_VARIABLEs
- drivers/apc-hid.c: mark up NUT_UNUSED_VARIABLEs (and comment a FIXME about possible use for that)
- drivers/snmp-ups.c: comment about issue found by pedantic compiler snmp-ups.c: In function *nut_snmp_init*: snmp-ups.c:599:66: error: division *sizeof (oid * {aka long unsigned int}) / sizeof (oid {aka long unsigned int}) does not compute the number of array elements [-Werror=sizeof-pointer-div] 599* \| *g_snmp_sess.securityPrivProtoLen = sizeof(usmAESPrivProtocol)/sizeof(oid);* \| *^ In file included from /usr/include/net-snmp/snmpv3_api.h:27, from /usr/include/net-snmp/net-snmp-includes.h:78, from snmp-ups.h:79, from snmp-ups.c:39: /usr/include/net-snmp/library/transform_oids.h:50:26: note: first* sizeof *operand was declared here 50* \| *NETSNMP_IMPORT oid *usmAES128PrivProtocol; /* backwards compat* / \| ^~~~~~~~~\~ **cc1: all warnings being treated as errors make[1]: *** [Makefile:1953: snmp_ups-snmp-ups.o] Error 1**
- drivers/apc-hid.c: a few whitespace fixes
- drivers/openups-hid.c: initialize all fields of info_lkp_t arrays
- drivers/tripplite-hid.c: initialize all fields of info_lkp_t arrays
- drivers/powercom-hid.c: initialize all fields of info_lkp_t arrays
- drivers/cps-hid.c: initialize all fields of info_lkp_t arrays
- drivers/belkin-hid.c: initialize all fields of info_lkp_t arrays
- drivers/apc-hid.c: initialize all fields of info_lkp_t arrays
- drivers/apc-pdu-mib.c: define APC_PDU_DEVICE_MODEL macro on top of file
- drivers/apc-pdu-mib.c: initialize all fields of mib2nut_info_t arrays
- drivers/apc-pdu-mib.c: initialize all fields of info_lkp_t arrays
- drivers/apc-ats-mib.c: initialize all fields of mib2nut_info_t array
- drivers/apc-ats-mib.c: initialize all fields of info_lkp_t arrays

- drivers/eaton-ats16-mib.c: initialize all fields of mib2nut_info_t arrays
- drivers/eaton-ats16-mib.c: initialize all fields of info_lkp_t arrays
- drivers/huawei-mib.c: initialize all fields of mib2nut_info_t array
- drivers/huawei-mib.c: initialize all fields of info_lkp_t arrays
- drivers/hpe-pdu-mib.c: initialize all fields of mib2nut_info_t array
- drivers/hpe-pdu-mib.c: initialize all fields of info_lkp_t arrays
- drivers/eaton-ats30-mib.c: initialize all fields of mib2nut_info_t array
- drivers/eaton-ats30-mib.c: initialize all fields of info_lkp_t arrays
- drivers/delta_ups-mib.c: initialize all fields of mib2nut_info_t array
- drivers/delta_ups-mib.c: initialize all fields of info_lkp_t arrays
- drivers/cyberpower-mib.c: initialize all fields of mib2nut_info_t array
- drivers/cyberpower-mib.c: initialize all fields of info_lkp_t arrays
- drivers/bestpower-mib.c: initialize all fields of mib2nut_info_t array
- drivers/bestpower-mib.c: initialize all fields of info_lkp_t arrays
- drivers/xppc-mib.c: initialize all fields of info_lkp_t arrays, and end sentinel entries to close them off
- docs/developers.txt, docs/nut.dict: Satisfy the spellchecker
- drivers/xppc-mib.c: initialize all fields of mib2nut_info_t array
- drivers/raritan-pdu-mib.c: initialize all fields of mib2nut_info_t array
- drivers/raritan-px2-mib.c: initialize all fields of mib2nut_info_t array
- drivers/raritan-px2-mib.c: fix indentations
- drivers/raritan-px2-mib.c: initialize all fields of info_lkp_t arrays, and fix indentations in the table
- drivers/raritan-pdu-mib.c: initialize all fields of info_lkp_t arrays
- drivers/powerware-mib.c: initialize all fields of info_lkp_t arrays
- drivers/netvision-mib.c: initialize all fields of mib2nut_info_t array
- drivers/netvision-mib.c: initialize all fields of info_lkp_t arrays
- drivers/mge-mib.c: initialize all fields of mib2nut_info_t array
- drivers/mge-mib.c: initialize all fields of info_lkp_t arrays
- drivers/ietf-mib.c: initialize all fields of mib2nut_info_t arrays
- drivers/ietf-mib.c: initialize all fields of info_lkp_t arrays
- drivers/emerson-avocent-pdu-mib.c: initialize all fields of info_lkp_t arrays
- drivers/emerson-avocent-pdu-mib.c: initialize all fields of mib2nut_info_t array
- drivers/eaton-pdu-revelation-mib.c: initialize all fields of mib2nut_info_t array
- drivers/eaton-pdu-revelation-mib.c: initialize all fields of info_lkp_t arrays
- drivers/eaton-pdu-pulizzi-mib.c: initialize all fields of mib2nut_info_t array
- drivers/eaton-pdu-pulizzi-mib.c: initialize all fields of info_lkp_t arrays

- drivers/eaton-pdu-marlin-mib.c: initialize all fields of mib2nut_info_t array
- drivers/eaton-pdu-marlin-mib.c: initialize all fields of info_lkp_t arrays
- drivers/eaton-pdu-genesis2-mib.c: initialize all fields of mib2nut_info_t array
- drivers/compaq-mib.c: initialize all fields of mib2nut_info_t array
- drivers/compaq-mib.c: initialize all fields of info_lkp_t arrays
- drivers/baytech-mib.c: initialize all fields of mib2nut_info_t array
- drivers/baytech-mib.c: initialize all fields of info_lkp_t arrays
- drivers/apc-mib.c: initialize all fields of mib2nut_info_t array (and comment concern whether the addition was right?)
- drivers/apc-mib.c: replace verbatim OID string we seek with a macro APC_UPS_DEVICE_MODEL like elsewhere
- drivers/apc-mib.c: initialize all fields of info_lkp_t arrays
- drivers/mge-xml.c: avoid implicit switch fall-through (comment whether that wondering is the right thing to do though)
- drivers/blazer_usb.c: avoid implicit switch fall-through
- drivers/riello_usb.c: avoid implicit switch fall-through
- drivers/tripplite_usb.c: avoid implicit switch fall-through
- ci_build.sh: refactor to track failing "default-all-errors" so we can extend it to "configure_nut()" and "build_to_only_catch_errors()" more variants
- ci_build.sh: refactor to have a build_to_only_catch_errors() routine
- ci_build.sh: refactor to have a configure_nut() routine
- docs/developers.txt: document a valid use-case of goto for clean switch-case fall-through

2.1287 2020-11-07 Jim Klimov <jimklimov@gmail.com>

- drivers/eaton-ats16-mib.c: Update eaton-ats16-mib.c Reworded the comments
- drivers/nutdrv_qx.c: Update nutdrv_qx.c drivers/nutdrv_qx.c: rectify indentations
- drivers/tripplite_usb.c: Update tripplite_usb.c drivers/tripplite_usb.c: drop trailing whitespace
- docs/acknowledgements.txt: Update acknowledgements.txt Acknowledge a vendor contribution from EVER Power Systems
- drivers/ever-hid.c: Update ever-hid.c Small whitespace fixes
- docs/acknowledgements.txt: Update acknowledgements.txt Add vendor contribution from AMETEK Powervar for UPM series
- drivers/liebert-hid.c: Update liebert-hid.c Minor whitespace fixes

2.1288 2020-11-06 amccartney <andrew.mccartney@ametek.com>

- drivers/powervar-hid.c: Final clean up and edits for Powervar UPM support

2.1289 2020-11-06 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/scan_xml_http.c: drop g_usec_timeout which is not actually used
- drivers/libusb.c: fix debug string formatting
- drivers/nutdrv_qx.c: upsdrv_initups(): constrain langid_fix scanned values to fit into signed int
- drivers/nutdrv_qx_voltronic.c: avoid buffer overflows iterating item→info_rw, possible NPE, and fix the check for hitting the sentinel entry Fix warnings like: nutdrv_qx_voltronic.c:4037:39: error: division *sizeof (info_rw_t *) / sizeof (info_rw_t)* does not compute the number of array elements [-Werror=sizeof-pointer-div] 4037 \| if (i >= (int)(sizeof(item→info_rw) / sizeof(item→info_rw[0]))) { \| \^ nutdrv_qx_voltronic.c: In function *voltronic_p31g_set*:
- drivers/nutdrv_qx_voltronic.c: voltronic_fault(): avoid buffer overflows with sprintf()
- tools/nut-scanner/scan_xml_http.c: avoid possible buffer overflow
- drivers/snmp-ups.c: su_alarm_set(): bump alarm_info_value size to avoid print overflows
- drivers/upscode2.c: use fabs() for floating-point math
- drivers/riello_ser.c: instcmd(): find a use for "extra"
- drivers/apcsmart-old.c: instcmd(): find a use for "extra"
- drivers/ivtscd.c: instcmd(): find a use for "extra"
- drivers/clone.c: instcmd(): find a use for "extra"
- drivers/powerman-pdu.c: instcmd(): find a use for "extra"
- drivers/powerp-txt.c: powpan_instcmd(): find a use for "extra"
- drivers/powerp-bin.c: powpan_instcmd(): find a use for "extra"
- drivers/victronups.c: instcmd(): find a use for "extra"
- drivers/nutdrv_qx_voltronic.c: mark up NUT_UNUSED_VARIABLEs
- drivers/nutdrv_qx.c: mark up NUT_UNUSED_VARIABLEs
- drivers/apcsmart-old.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/nut-scanner.c: mark up NUT_UNUSED_VARIABLEs
- server/netuser.c: mark up NUT_UNUSED_VARIABLEs
- server/netmisc.c: mark up NUT_UNUSED_VARIABLEs
- server/netssl.c: mark up NUT_UNUSED_VARIABLEs
- server/upsd.c: mark up NUT_UNUSED_VARIABLEs
- drivers/upsdrvctl.c: mark up NUT_UNUSED_VARIABLEs
- drivers/apcsmart.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/scan_eaton_serial.c: mark up NUT_UNUSED_VARIABLEs
- tools/nut-scanner/scan_avahi.c: mark up NUT_UNUSED_VARIABLEs
- drivers/apcsmart_tabs.c: initialize all fields of upsdrv_info_t array
- drivers/apcsmart_tabs.c: initialize all fields of apc_vartab_t arrays
- tools/nut-scanner/nutscan-serial.c: initialize all fields of device_portname_t arrays
- drivers/upscode2.c: initialize all fields of cmd_t and simple_t arrays

- drivers/upscode2.c: comment the fallthrough in upsc_simple() switch, so far consider it explicitly desired as it was before
- drivers/isbmex.c: replace FALLTHRU comments with more portable and reliable goto jumps
- tools/nut-scanner/nut-scanner.c: explicit fall through to displaying help
- drivers/nutdrv_qx.c: qx_command(): explicit fall through the switch
- drivers/mge-hid.c: replace FALLTHRU comments with same returns as the next default case
- drivers/usbhid-ups.c: replace FALLTHRU comments with more portable and reliable goto jumps
- clients/upsc.c: replace FALLTHRU comments with more portable and reliable goto jumps
- common/snprintf.c: replace FALLTHRU comments with more portable and reliable goto jumps
- configure.ac: drop trailing whitespace
- tools/nut-usbinfo.pl: drop trailing whitespace
- tools/nut-recorder.sh: drop trailing whitespace
- tools/nut-ddl-dump.sh: drop trailing whitespace
- tests/nutclienttest.cpp: drop trailing whitespace
- server/user.c: drop trailing whitespace
- server/upstype.h: drop trailing whitespace
- server/sstate.c: drop trailing whitespace
- server/sockdebug.c: drop trailing whitespace
- server/netlist.c: drop trailing whitespace
- server/netinstcmd.c: drop trailing whitespace
- server/netget.c: drop trailing whitespace
- server/conf.c: drop trailing whitespace
- common/upsconf.c: drop trailing whitespace
- common/state.c: drop trailing whitespace
- common/setenv.c: drop trailing whitespace
- common/parseconf.c: drop trailing whitespace
- clients/upsmon.h: drop trailing whitespace
- clients/upsimagearg.h: rectify whitespace
- clients/upsclient.h: drop trailing whitespace
- clients/nutclient.cpp, clients/nutclient.h: clients/nutclient.{cpp,h}: drop trailing whitespace
- clients/cgilib.c: drop trailing whitespace
- drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c: drivers/nut-**ipmi***.{c,h}: drop trailing whitespace
- drivers/netxml-ups.c, drivers/netxml-ups.h: drivers/netxml-ups.{c,h}: drop trailing whitespace
- drivers/mge-utalk.h, drivers/mge-xml.c, drivers/mge-xml.h: drivers/mge*.{c,h}: drop trailing whitespace
- drivers/main.h: drop trailing whitespace
- drivers/main.c: Drop exec bit from source file

- drivers/liebert-hid.h, drivers/liebert.c: drivers/liebert*: drop trailing whitespace
- drivers/libhid.c: drivers/libhid.h: drop trailing whitespace
- drivers/idowell-hid.c: drivers/idowell-hid.h: drop trailing whitespace
- drivers/hidtypes.h: drop trailing whitespace
- drivers/genericups.h: drop trailing whitespace
- drivers/everups.c: drop trailing whitespace
- drivers/eaton-pdu-pulizzi-mib.c: drop trailing whitespace
- drivers/dummy-ups.h: drop trailing whitespace
- drivers/dstate.c: drop trailing whitespace
- drivers/delta_ups-mib.c: drop trailing whitespace
- drivers/cyberpower-mib.c: drop trailing whitespace
- drivers/blazer.c, drivers/blazer_usb.c: drivers/blazer*.{c,h}: drop trailing whitespace
- drivers/bestuferrups.c: rectify indentations
- drivers/bestuferrups.c: drop trailing whitespace
- drivers/belkin-hid.c, drivers/belkin-hid.h: drivers/belkin*.{c,h}: drop trailing whitespace
- drivers/bcmxcp_io.h, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c: drivers/bcmxcp*.{c,h}: drop trailing whitespace
- drivers/baytech-mib.c: drop trailing whitespace
- drivers/apc-mib.c: drop trailing whitespace
- drivers/apc-hid.c, drivers/apc-hid.h: drivers/apc-hid.{c,h}: drop trailing whitespace
- drivers/xppc-mib.c: drivers/xppc-mib.h: drop trailing whitespace
- drivers/tripplite-hid.h: drop trailing whitespace
- drivers/snmp-ups.h: drop trailing whitespace
- drivers/skel.c: drop trailing whitespace
- drivers/richcomm_usb.c: drop trailing whitespace
- drivers/powerware-mib.c: drop trailing whitespace
- drivers/openups-hid.c: drop trailing whitespace
- drivers/oneac.c, drivers/oneac.h: drivers/oneac.{c,h}: drop trailing whitespace
- drivers/nutdrv_atcl_usb.c: drop trailing whitespace
- drivers/riello.c, drivers/riello_ser.c, drivers/riello_usb.c: drivers/riello*.{c,h}: drop trailing whitespaces
- drivers/apcsmart-old.c, drivers/apcsmart-old.h: drivers/apcsmart-old.{c,h}: drop trailing whitespaces
- tools/nut-scanner/nut-scanner.c: fix whitespaces
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_usb.c: tools/nut-scanner/*.{c,h}: drop trailing whitespaces
- server/netmisc.c: drop trailing whitespaces
- server/netssl.c: drop trailing whitespaces

- server/upsd.c: drop trailing whitespaces
- drivers/ivtscd.c: drop trailing whitespaces
- drivers/powerp-bin.h, drivers/powerp-txt.h, drivers/powerpanel.c, drivers/powerpanel.h: drivers/powerp*.{c,h}: drop trailing whitespaces
- drivers/powerp-txt.c: drop trailing whitespaces
- drivers/powerp-bin.c: drop trailing whitespaces
- drivers/victronups.c: rectify whitespace
- drivers/upscode2.c: rectify whitespace

2.1290 2020-11-05 Jim Klimov <jim@jimklimov.com>

- drivers/hidparser.c: hide logging check that never fires hidparser.c:347:28: error: comparison is always false due to limited range of data type [-Werror=type-limits] 347 \| if(pParser→Data.ReportID >= MAX_REPORT) uint8_t vs "500" CC @aquette
- drivers/solis.h: swap "const static" ⇒ "static const" Avoids error: *static* is not at beginning of declaration [-Werror=old-style-declaration]
- drivers/solis.c: rectify C-style comments
- drivers/isbmex.c: comment about magic D() macro got debug logging vs. upsdebugx()
- drivers/rhino.c: ScanReceivePack(): rephrase if-clause to avoid warnings Seems this is a correct change logically: - if(!(SourceFail) == RedeAnterior) \+ if(RedeAnterior == !(SourceFail)) given this assignment just below the if-clause: RedeAnterior = !(SourceFail); to avoid a compiler warning that "!" might apply not in a way intended by author
- drivers/masterguard.c: StringSplit(): use the maxlen
- drivers/liebert-esp2.c: setvar(): find a use for "val"
- drivers/bestfcom.c: increase buffers to avoid overflow (warnings)
- drivers/bcmxcp.c: setvar(): increase buffers to avoid overflow (warnings)
- drivers/tripplitesu.c: instcmd(): find a use for "extra"
- drivers/tripplite.c: instcmd(): find a use for "extra"
- drivers/solis.c: instcmd(): find a use for "extra"
- drivers/nutdrv_siemens_sitop.c: instcmd(): find a use for "extra"
- drivers/safenet.c: instcmd(): find a use for "extra"
- drivers/rhino.c: instcmd(): find a use for "extra"
- drivers/powercom.c: instcmd(): find a use for "extra"
- drivers/optiups.c: instcmd(): find a use for "extra"
- drivers/mge-utalk.c: instcmd(): find a use for "extra"
- drivers/metasys.c: instcmd(): find a use for "extra"
- drivers/liebert-esp2.c: instcmd(): find a use for "extra"
- drivers/etapro.c: instcmd(): find a use for "extra"
- drivers/dummy-ups.c: instcmd(): find a use for "extra"
- drivers/bestups.c: instcmd(): find a use for "extra"

- drivers/bestfortress.c: instcmd(): find a use for "extra"
- drivers/belkinunv.c: instcmd(): find a use for "extra"
- drivers/belkin.c: instcmd(): find a use for "extra"
- drivers/bcmxcp.c: instcmd(): find a use for "extra"
- drivers/mge-hid.c: mark up NUT_UNUSED_VARIABLEs
- drivers/libshut.c: mark up NUT_UNUSED_VARIABLEs
- drivers/liebert-esp2.c: mark up NUT_UNUSED_VARIABLEs
- drivers/dummy-ups.c: mark up NUT_UNUSED_VARIABLEs
- drivers/bestfortress.c: mark up NUT_UNUSED_VARIABLEs
- drivers/bestfcom.c: mark up NUT_UNUSED_VARIABLEs
- drivers/optiups.c: initialize all fields of ezfill_t tables
- drivers/mge-hid.c: update arrays of info_lkp_t with fourth (nuf) field and comment where a real nuf() might be useful
- drivers/usbhid-ups.c: update arrays of info_lkp_t with fourth (nuf) field and comment where a real nuf() might be useful
- drivers/usbhid-ups.c: update arrays of info_lkp_t with fourth (nuf) field
- drivers/usbhid-ups.c: update HIDDevice_t object with missing initializer for bcdDevice
- drivers/mge-hid.c: drivers/mge-utalk.c: update arrays of info_lkp_t with fourth (nuf) field
- drivers/gamatronic.h: initialize the "value" field in the struct array
- drivers/gamatronic.h: avoid anonymous struct
- drivers/isbmex.c: upsdrv_updateinfo(): fix switch/break
- drivers/mge-hid.c: quiesce -Wimplicit-fallthrough=3 warnings about fall-through in switch
- drivers/usbhid-ups.c: quiesce -Wimplicit-fallthrough=3 warnings about fall-through in switch
- .travis.yml: in NUT_MATRIX test cases, specify -Werror=implicit-fallthrough=3 to let special comments quiesce the warning where a FALLTHRU is intentional
- .travis.yml: in clang test cases, do not insist that all macros are used, or we can not pass even autoconf
- drivers/tripplitesu.c: drop trailing whitespaces
- drivers/solis.c, drivers/solis.h: drivers/solis.{c,h}: rectify whitespaces
- drivers/safenet.c: drop trailing whitespaces
- drivers/rhino.c: normalize whitespace heavily
- drivers/powercom.c: rectify leading whitespaces
- drivers/powercom.c: drop trailing whitespaces
- drivers/powercom.h: drop trailing whitespaces
- drivers/optiups.c: rectify whitespaces
- drivers/hidparser.c: drop trailing whitespaces
- drivers/usb-common.c: drop trailing whitespaces
- drivers/libshut.h, drivers/libusb.h, drivers/usb-common.h: drivers/libshut.h libusb.h usb-common.h: drop trailing whitespaces

- drivers/libshut.c: rectify whitespaces per style guide
- drivers/mge-utalk.c: drop trailing whitespaces
- drivers/metasys.c: drop trailing whitespaces
- drivers/masterguard.c: rectify whitespaces and drop comments opposing the project style guide
- drivers/masterguard.c: drop trailing whitespaces
- drivers/liebert-esp2.c: rectify whitespaces
- drivers/liebert-esp2.c: drop trailing whitespaces
- drivers/isbmex.c: rectify whitespaces
- drivers/isbmex.c: drop trailing whitespaces
- drivers/gamatronic.h: rectify whitespaces
- drivers/dummy-ups.c: drop trailing whitespaces
- drivers/bestups.c: drop trailing whitespaces
- drivers/bestfortress.c: rectify whitespaces
- drivers/bestfcom.c: rectify whitespaces
- drivers/belkinunv.c: drivers/belkin.c: rectify whitespaces
- drivers/belkin.c: drop trailing whitespaces
- drivers/bcmxcp.c: fix leading whitespaces

2.1291 2020-11-04 Jim Klimov <jimklimov@gmail.com>

- drivers/solis.c: Update solis.c Drop temporary unicode comment for PR
- drivers/nutdrv_qx_voltronic.c: Update nutdrv_qx_voltronic.c Drop temporary comment with unicode for PR

2.1292 2020-11-04 Jim Klimov <jim@jimklimov.com>

- clients/upssched.c: main(): find use for argc
- clients/upsmon.c: sigpipe(): find use for sig
- clients/upsset.c: print_rw(): find use for upsname
- clients/upscmd.c: increase buffers to avoid overflow (warnings)
- clients/upsrw.c: increase buffers to avoid overflow (warnings)
- clients/upssched.c: increase buffers to avoid overflow (warnings)
- drivers/al175.c: instcmd(): find use for "extra"
- drivers/serial.c: mark up NUT_UNUSED_VARIABLEs
- clients/upssched.c: mark up NUT_UNUSED_VARIABLEs
- clients/upsmon.c: mark up NUT_UNUSED_VARIABLEs
- clients/upsset.c: mark up NUT_UNUSED_VARIABLEs
- clients/upsimage.c, clients/upsstats.c: clients/upsimage.c: mark up NUT_UNUSED_VARIABLEs

- clients/upsstats.c: mark up NUT_UNUSED_VARIABLEs
- clients/upslog.c: mark up NUT_UNUSED_VARIABLEs
- clients/upsclient.c: mark up NUT_UNUSED_VARIABLEs for ifdef-ed codepaths
- include/common.h: introduce NUT_UNUSED* macros to mark up codebase
- drivers/bcmxcp.c: fix info_lkp_t arrays to consider fourth "nuf" field
- clients/upsc.c: quiesce -Wimplicit-fallthrough=3 warnings about fall-through in switch
- common/snprintf.c: quiesce -Wimplicit-fallthrough=3 warnings about fall-through in switch
- include/common.h: introduce NUT_UNUSED* macros to mark up codebase
- .travis.yml: .travis.yml : enable "-Wextra -Weverything" for clang (follow-up to issue #823)
- .travis.yml: .travis.yml : enable "-Wextra" for newer gcc versions on Linux (follow-up to issue #823)
- .travis.yml: .travis.yml : enable "-Wextra" for default gcc versions on Linux (follow-up to issue #823)
- configure.ac: revise the fix for AC_PROG_LIBTOOL to only revert settings already passed to the compiler (that older releases may not understand if we just force them)
- configure.ac: configure.ac : work around libtool weakness seen by
- configure.ac: configure.ac : work around libtool weakness seen by pedantic compilers
- ci_build.sh: do not hide autogen.sh stderr
- ci_build.sh: if configure failed, sleep a bit before dumping config.log
- drivers/bcmxcp.c: drop trailing whitespaces
- drivers/bcmxcp.h: drop trailing whitespaces
- drivers/serial.c: drop trailing whitespaces
- clients/upssched.c: drop trailing whitespaces
- clients/upsmon.c: drop trailing whitespaces
- clients/upsset.c: drop trailing whitespaces
- clients/upsimage.c: drop indented whitespaces
- clients/upsstats.c: drop trailing whitespaces
- clients/upslog.c: drop trailing whitespaces
- clients/upsc.c: drop trailing whitespaces
- clients/upsclient.c: drop trailing whitespaces
- common/snprintf.c: rectify whitespace
- configure.ac: Fix issue #833 for (sys/)termios.h on BSD . . . And generally check if we CAN build serial drivers before trying to (and/or guessing if we should try).

2.1293 2020-11-03 Jim Klimov <jim@jimklimov.com>

- .travis.yml: comment for exploring ways to get 32-bit travis builds
- .travis.yml: Issue #823 follow-up: add explicitly x86 32-bit builds in Travis CI
- ci_build.sh: ci_build.sh : if configure script fails, dump its log before exiting
- .travis.yml: .travis.yml : rephrase some comments
- .travis.yml: .travis.yml : separate the "_matrix_gnustd_nowarn"
- .travis.yml: Issue #823 follow-up: support branches named like "fightwarn" to build more test cases in Travis CI (actually enable those build matrices)
- .travis.yml: Issue #823 follow-up: support branches named like "fightwarn" to build more test cases in Travis CI

2.1294 2020-11-03 Eric Clappier <ericclappier@eaton.com>

- drivers/eaton-ats16-mib.c: Apply patch "Nut-scanner fix for discovery ats16 with legacy NMC and newer Network-M2"

2.1295 2020-10-26 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/eaton-pdu-marlin-mib.c: snmp-ups: fix outlet ID on Eaton ePDU Tie outlet ID to a real OID, to avoid erroneous indexes (-1, 0)
- docs/nut-names.txt, drivers/eaton-pdu-marlin-mib.c: snmp-ups: fix Eaton ePDU switch ability Expose a general switchability of the unit, using outlet.switchability, along with a more suitable per-outlet mechanism

2.1296 2020-10-25 Jim Klimov <jim@jimklimov.com>

- docs/man/Makefile.am: docs/man/Makefile.am : @echo diagnostic messages without a trace by default

2.1297 2020-10-22 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/main.c: Fix dstate init call WRT data dump Closes: https://github.com/networkupstools/nut/issues/835

2.1298 2020-10-15 Jim Klimov <jim@jimklimov.com>

- docs/man/Makefile.am: docs/man/Makefile.am : in check-man-* targets, count the checked files (to see better the cases where none were available)
- docs/man/Makefile.am: docs/man/Makefile.am : typo fix ">&@" ⇒ ">&2" for stderr

2.1299 2020-10-13 Jim Klimov <jim@jimklimov.com>

- .travis.yml: .travis.yml (#823) : in default builds, disable whatever is not in "_matrix_required"
- .travis.yml: .travis.yml (#823) : define a _matrix_linux and _matrix_all groupings
- .travis.yml: .travis.yml (#823) : clarify the distro-dependent relations of matrix jobs as required and allowfail per distro

2.1300 2020-10-12 amccartney <andrew.mccartney@ametek.com>

- docs/man/usbhid-ups.txt, drivers/powervar-hid.c: Changes per NUT review comments. Removed info fields from polling. Added company/contributor info. Updated docs/man/usbhid-ups.txt

2.1301 2020-10-12 Konstantin Gizdov <kgizdov@gmail.com>

- drivers/usbhid-ups.c: address some comments

2.1302 2020-10-12 Jim Klimov <jimklimov@gmail.com>

- docs/man/usbhid-ups.txt: Update usbhid-ups.txt Rearranged lines to keep "all" block together, and finish the list item with a comma without much context change ;)
- docs/nut.dict: Update nut.dict for PR #733 Add new product name and vendor keywords
- configure.ac: Update configure.ac Whitespace mess
- .travis.yml: .travis.yml (#823) : win bash has no time

2.1303 2020-10-12 Jim Klimov <jim@jimklimov.com>

- docs/acknowledgements.txt: revise the last paragraph for listing corporate contributors
- docs/nutdrv_qx-subdrivers.txt: revise a few typos
- docs/configure.txt: update for gdlib pkg-config support (follow-up to #809)
- docs/configure.txt: update for gdlib pkg-config support (follow-up to #809)
- docs/man/upsd.conf.txt: mention that ALLOW_NO_DEVICE envvar (e.g. from nut.conf) can override the setting in upsd.conf
- conf/nut.conf.sample: fix ALLOW_NO_DEVICE example to "export" it on a separate line
- .travis.yml: ci_build.sh (#823) : add gnu99-clang-win-nowarn
- ci_build.sh: ci_build.sh (#823) : only call dpkg on linux
- ci_build.sh: ci_build.sh (#823) : investigate win autogen
- .travis.yml: .travis.yml (#823) : fix delivery of ccache to win builds

2.1304 2020-10-11 Jim Klimov <jim@jimklimov.com>

- .travis.yml: .travis.yml (#823) : do not cache /usr/local/Cellar on osx, it is too big and rejected anyway
- .travis.yml: .travis.yml (#823, #828) : extend matrix for osx builds with -std=gnu* variants that seem to pass
- .travis.yml: .travis.yml (#823) : for osx builds, avoid "brew update" by default, that since 2.0.0 release involves cleanup automagically and takes a needless 15-30 minutes hit on a Travis worker When desired we can set HOMEBREW_NO_AUTO_UPDATE customizable per run
- .travis.yml: .travis.yml (#823) : for osx builds, add ccache; and only bother for asciidoc \+ docbook-xsl if building docs
- .travis.yml: .travis.yml (#823) : cache locations related to Brew between runs
- .travis.yml: .travis.yml (#823) : for now, enable CI_TRACE on Win always (to find where ci_build.sh script dies)
- .travis.yml: .travis.yml : set jobs.fast_finish:true

2.1305 2020-10-10 Jim Klimov <jim@jimklimov.com>

- .travis.yml: .travis.yml (#823) : group tests into YAML _matrix-* lists to pick some easier for particular runs on dev branches
- .travis.yml: .travis.yml (#823) : xcode6.4 is deprecated on Travis, try a newer oldest alternative (7.3)
- .travis.yml: .travis.yml (#823) : add c99-clang-xcode10.2-warn
- .travis.yml: .travis.yml (#823) : reorder some allowed_failure tests to group logically
- .travis.yml: .travis.yml (#823) : drop gnu14-gcc-8-nowarn (no C14), add gnu17-clang-8-nowarn
- .travis.yml: .travis.yml (#823) : drop gnu14 and gnu17 attempts with gcc-7; try gnu14 with gcc-8
- .travis.yml: .travis.yml (#823) : mark gnu17-gcc-9-nowarn as OK
- ci_build.sh: .travis.yml (#823) : give up on gdlib (--with-cgi) on win for now
- .travis.yml: .travis.yml (#823) : add a few MacOS X and Windows\+clang9 build combos for diversity
- .travis.yml: .travis.yml (#823) : add more compilers and standards to try, to collect max diags: c17-clang-8-warn gnu17-gcc-9-warn
- .travis.yml: .travis.yml (#823) : add more compilers and standards to try : gnu14-gcc-7-nowarn gnu17-gcc-7-nowarn gnu17-gcc-9-nowarn c99-clang-3.5-nowarn c17-clang-8-nowarn
- .travis.yml: .travis.yml (#823) : specify "compiler" in our handmade matrix to hint to Travis which env we want
- .travis.yml: .travis.yml (#823) : comment the reference of C/C+\+ standard support by gcc and clang versions used
- .travis.yml: .travis.yml : reshuffle default required builds order to have the quicker ones more likely to fail in development iterations to run first
- .travis.yml: .travis.yml : move BUILD_TYPE=default and BUILD_TYPE=default-tgt:distcheck-light into common stack for manageability
- .travis.yml: declare linux "dist" that we want by default
- ci_build.sh: handle runs with unspecified BUILD_TYPE
- ci_build.sh: report if PATH includes ccache, and if CC and CXX understand passed C(XX)FLAGS
- ci_build.sh: report values of PATH, CC and CXX (and versions of the latter) before adding CCACHE into the mix

2.1306 2020-10-09 Konstantin Gizdov <kgizdov@gmail.com>

- drivers/usbhid-ups.c: more compact logic
- drivers/usbhid-ups.c: remove leftover lines
- drivers/usbhid-ups.c: lay the groundwork for CyberPower UT cputquirk
- drivers/usbhid-ups.c: fix indentation style

2.1307 2020-10-09 Jim Klimov <jim@jimklimov.com>

- docs/developers.txt: docs/developers.txt : document coding style examples for tabs vs spaces
- docs/developers.txt: docs/developers.txt : document a "for loop initial declarations are only allowed in C99 or C11 mode" portability offense
- docs/developers.txt: docs/developers.txt : document the official C99\+ standard support and that we have CI to help make sure what is upheld
- .travis.yml: .travis.yml : update comment for the NUT_MATRIX_TAG block of tests
- .travis.yml: .travis.yml : fix comment-naming for cDefault-gcc-default-nowarn/gnu99-gcc-default-nowarn primary not-failing case to keep up
- .travis.yml: .travis.yml : mark gnu89-gcc-default-nowarn as a not-failing case to keep up
- drivers/solis.c: drivers/solis.c : fix C89 for-loop var declarations
- .travis.yml: .travis.yml : mark gnu11-gcc-7-nowarn gnu99-clang-5.0-nowarn as not-failing cases to keep up
- .travis.yml: .travis.yml : add gnu89-gcc-default-nowarn to the test matrix to check if at least the basic syntax is okay (note that current warnings for C89 seem to indicate faults that may be fatal in binary code)
- .travis.yml: .travis.yml : mark gnu99-gcc-7-nowarn as a not-failing case to keep up
- .travis.yml: .travis.yml : add gnu99-clang-5.0-nowarn to the test matrix (hope clang can do GNU C dialect)
- .travis.yml: .travis.yml : add gnu11-gcc-7-nowarn to the test matrix

2.1308 2020-10-08 Jim Klimov <jim@jimklimov.com>

- .travis.yml: .travis.yml : add c11-clang-5.0-nowarn and c11-clang-5.0-warn to the matrix
- .travis.yml: .travis.yml : add gnu99-gcc-7-nowarn c99-clang-5.0-nowarn to test matrix (expected to be green)
- .travis.yml: .travis.yml : warning comment about multitoken CFLAGS and distcheck
- ci_build.sh: ci_build.sh : spell case statements in consistent style
- ci_build.sh: ci_build.sh : define default-all-errors separately from default-alldrv
- ci_build.sh: ci_build.sh : revise multi-token CONFIG_OPTS entries
- .travis.yml, ci_build.sh: .travis.yml / ci_build.sh : define a BUILD_TYPE=default-all-errors specifically to list all files with errors fatal for current build config (but not list whatever succeds)
- ci_build.sh: ci_build.sh : allow to stack multi-token CC="ccache clang" and such
- ci_build.sh: ci_build.sh : recognize is_clang() for ccache wrapping
- ci_build.sh: ci_build.sh : recognize is_clang()
- .travis.yml, ci_build.sh: Issue #823 : Set up Travis CI testing for more compiler implementations and C/C+\+ standards
- ci_build.sh: ci_build.sh : fix a few historic typos
- ci_build.sh: make sure we build all possible binaries in default-alldrv mode
- drivers/Makefile.am: drivers/Makefile.am : drop redundant pijuice_SOURCES listed in wrong section

2.1309 2020-10-08 Alexey Rodionov <alexey.rodionov@red-soft.ru>

- . . . /python/app/locale/ru/LC_MESSAGES/NUT-Monitor.mo, scripts/python/app/locale/ru/ru.po: Fixed two typos and translation of the term load
- . . . /app/locale/ru/LC_MESSAGES/NUT-Monitor.mo, scripts/python/app/locale/ru/ru.po: Additional corrections of the Russian translation
- . . . /app/locale/ru/LC_MESSAGES/NUT-Monitor.mo, scripts/python/app/locale/ru/ru.po: Fixed typos, made changes according to comments

2.1310 2020-10-07 Jim Klimov <jimklimov@gmail.com>

- drivers/snmp-ups.c: Update snmp-ups.c Fixed indentation for multiline if-clause
- clients/upsmon.c: Update upsmon.c Log a warning if an UPS is both OB\+LB+Calibrating so due to this combo we do not tell the host to shut down gracefully. Comment some ideas to work around such situation in a smarter way if we have additional info to know if we are in a safe environment just calibrating, or a known-unsafe one with a real outage in progress.
- common/state.c: state.c: state_delinfo(): comment on immutables For `state_delinfo()` not deleting immutable variables, comment this near the function and log for runtime hits to help troubleshooting.

2.1311 2020-10-07 Jim Klimov <jim@jimklimov.com>

- docs/man/snmp-ups.txt, docs/nut.dict: Update snmp-ups manpage for symmetrathreephase quirk to complete PR #788
- docs/man/Makefile.am, docs/man/index.txt, docs/man/pijuice.txt, docs/nut.dict: Add initial manpage for pijuice driver, hastily ripped off one for asem driver
- drivers/pijuice.c: pijuice.c cleanup : rectify leading indentations
- drivers/pijuice.c: pijuice.c cleanup : rectify tabulation of definitions
- drivers/pijuice.c: pijuice.c cleanup : comment end of big block of nested #if macros
- drivers/pijuice.c: pijuice.c cleanup : rectify indentation and blank-line the default return
- drivers/pijuice.c: pijuice.c cleanup : indent stacked #if* macros
- drivers/pijuice.c: pijuice.c cleanup : trailing whitespaces

2.1312 2020-10-06 Arnaud Quette <ArnaudQuette@eaton.com>

- drivers/main.c: Driver datadump improvements Do not switch to statepath, nor write pidfile, when using the datadump (-s -d) mode

2.1313 2020-09-22 Ross Williams <ross@ross-williams.net>

- clients/upsmon.c, clients/upsmon.h: Do not shutdown if UPS is performing calibration Some UPS calibration procedures (e.g. CyberPower) involve discharging the battery below the LB level, but we don't want systems to shut down if the UPS is only on battery because it is calibrating.

2.1314 2020-08-12 Konstantin Gizdov <kgizdov@gmail.com>

- drivers/usbhid-ups.c: initial patch that works

2.1315 2020-08-08 Sean McBride <sean@rogue-research.com>

- clients/cgilib.c, clients/nutclient.cpp, clients/upsmon.c, clients/upsset.c, drivers/al175.c, drivers/apcsmart-old.c, drivers/asem.c, drivers/bcmxcp.c, drivers/belkinunv.c, drivers/dstate.c, drivers/gamatronic.c, drivers/isbmex.c, drivers/mge-utalk.c, drivers/nut-libfreeipmi.c, drivers/nutdrv_qx_voltronic-qs-hex.c, drivers/nutdrv_qx_voltronic.c, drivers/oneac.c, drivers/powercom.c, drivers/rhino.c, drivers/riello_ser.c, drivers/snmp-ups.c, drivers/solis.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, server/netssl.c, tools/nut-scanner/scan_nut.c: WIP: Fixed various warnings and errors identified by cppcheck Specifically: arrayIndexThenCheck,drive qs-hex.c:222,style,Array index *i* is used before limits check. arrayIndexThenCheck,drivers/oneac.c:176,style,Array index *i* is used before limits check. clarifyCalculation,drivers/belkinunv.c:1063,style,Clarify calculation precedence for *&* and *?*. clarifyCalculation,drivers/belkinunv.c:922,style,Clarify calculation precedence for *&* and *?*. clarifyCalculation,drivers/powercom.c:677,style calculation precedence for *&* and *?*. clarifyCalculation,drivers/powercom.c:732,style,Clarify calculation precedence for *&* and *?*. clarifyCondition,drivers/asem.c:248,style,Boolean result is used in bitwise operation. Clarify expression with parentheses. duplicateConditionalAssign,drivers/solis.c:725,style,The statement *if (DaysOnWeek!=DaysOffWeek) DaysOnWeek=DaysOffWeek* is logically equivalent to *DaysOnWeek=DaysOffWeek*. duplicateExpression,clients/cgilib.c:49,style,Same expression on both sides of |\|. duplicateExpression,drivers/nutdrv_qx_voltronic.c:270,style,Same expression on both sides of |\|. duplicateExpression,drivers/nutdrv_qx_voltronic.c:303,style,Same expression on both sides of |\|. duplicateExpression,drivers/nutdrv_qx_voltroni expression on both sides of |\|. identicalInnerCondition,drivers/tripplite_usb.c:579,warning,Identical inner *if* condition is always true. incorrectLogicOperator,drivers/dstate.c:1170,warning,Logical conjunction always evaluates to false: c2 && !c2. incorrectLogicOperator,drivers/rhino.c:190,warning,Logical disjunction always evaluates to true: BattVoltage > 129 |\| BattVoltage < 144. incorrectStringBooleanError,drivers/mge-utalk.c:899,warning,Conversion of string literal "\r\n" to bool always evaluates to true. invalidPrintfArgType_sint,clients/upsset.c:393,warning,%d in format string (no. 1) requires *int* but the argument type is *unsigned int*. invalidPrintfArgType_sint,clients/upsset.c:676,warning,%d in format string (no. 1) requires *int* but the argument type is *unsigned int*. invalidPrintfArgType_sint,drivers/isbmex.c:178,portability,%d in format string (no. 1) requires *int* but the argument type is *ssize_t {aka signed long}*. invalidPrintfArgType_sint,drivers/tripplitesu.c:435,warning,%d in format string (no. 1) requires *int* but the argument type is *unsigned int*. knownConditionTrueFalse,clients/upsmon.c:919,style,Condition *un* is always true knownConditionTrueFalse,drivers/gamatronic.c:111,style,Condition *ret>=0* is always true knownConditionTrueFalse,drivers/powercom.c:696,style,Condition *battval>bat0* is always true knownConditionTrueFalse,drivers/solis.c:485,style,Co *AppPower==0* is always false knownConditionTrueFalse,tools/nut-scanner/scan_nut.c:180,style,Condition *numa>=3* is always true memleak,clients/upsset.c:664,error,Memory leak: val nullPointerRedundantCheck,drivers/snmp-ups.c:1554,warning,Either the condition *info_template==NULL* is redundant or there is possible null pointer dereference: info_template. pointerLessThanZero,dr libfreeipmi.c:864,style,A pointer can not be negative so it is either pointless or an error to check if it is. pointerLessThanZero,drivers/nu libfreeipmi.c:884,style,A pointer can not be negative so it is either pointless or an error to check if it is. postfixOperator,clients/nutclient.cpp:896,performance,Prefer prefix +\+/-- operators for non-primitive types. redundantInitialization,drivers/al175.c initialization for *reply*. The initialized value is overwritten before it is read. uninitMemberVar,clients/nutclient.cpp:504,warning,Memb variable *TcpClient::_timeout* is not initialized in the constructor. uninitMemberVar,clients/nutclient.cpp:513,warning,Member variable *TcpClient::_timeout* is not initialized in the constructor. uninitvar,server/netssl.c:546,error,Uninitialized variable: ret unsignedLessThanZero,drivers/apcsmart-old.c:928,style,Checking if unsigned expression *sdtype* is less than zero. unsignedPositive,drivers/bcmxcp.c:785,style,Unsigned expression *commandByte* can't be negative so it is unnecessary to test it. uselessAssignmentPtrArg,drivers/riello_ser.c:105,warning,Assignment of function parameter has no effect outside the function. Did you forget dereferencing it?

2.1316 2020-07-29 Fabrice Fontaine <fontaine.fabrice@gmail.com>

- m4/nut_check_libgd.m4: nut_check_libgd.m4: try to find gd through pkg-config gdlib-config has been dropped from version 2.3.0 with https://github.com/libgd/libgd/commit/d62f608c7c4a814c70d4ba777725e3e62d9e2cde

2.1317 2020-07-21 Luka Kovačič <luka.kovacic@builtin.io>

- drivers/delta-hid.c: drivers: delta-hid: Update entry flags appropriately Update entry flags to use HU_FLAG_QUICK_POLL for status and alarm variables, HU_FLAG_SEMI_STATIC for variables that can change on user changes and HU_FLAG_STATIC for variables that don't need to be updated after init.

2.1318 2020-07-17 Alexey Rodionov <alexey.rodionov@red-soft.ru>

- .../app/locale/ru/LC_MESSAGES/NUT-Monitor.mo, scripts/python/app/locale/ru/ru.po: Add Russian translation for NUT-Monitor

2.1319 2020-07-11 Matt Merhar <mattmerhar@protonmail.com>

- docs/security.txt: Fix typo in TCP Wrappers documentation

2.1320 2020-07-02 Luka Kovačič <luka.kovacic@builtin.io>

- drivers/Makefile.am, drivers/delta-hid.c, drivers/delta-hid.h, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.rules: drivers: delta-hid: Add Delta HID subdriver Delta HID subdriver is added to support Delta RT Series, Single Phase, 1/2/3 kVA UPS devices. The driver was tested and tweaked on Delta RT 3 kVA UPS.

2.1321 2020-06-15 Florian Bernd <flobernd@users.noreply.github.com>

- drivers/apcupsd-ups.c: Do not overwrite `poll_interval` in `apcupsd-ups` This commit removes the hardcoded poll-interval of 60 seconds and instead only makes sure that the user-defined interval is greater than a minimum-interval.
- drivers/apcupsd-ups.c, drivers/apcupsd-ups.h: Do not call `dstate_delinfo()` for LB-condition variables This commit fixes the `ignorelb` flag for the `apcupsd-ups` driver. Previusly "battery.charge" and "battery.runtime" was cleared before invoking `status_commit()` which caused the LB-condition to always be `false`.
- common/state.c: Respect `ST_FLAG_IMMUTABLE` in `dstate_delinfo()`

2.1322 2020-06-11 Peter Klein <kleinpa00@gmail.com>

- clients/nutclient.cpp, clients/nutclient.h: Remove dynamic exception specifications from clients/nutclient.cpp These are invalid in c\+\+17 and must be removed for compatibility with modern compilers.

2.1323 2020-06-11 Eric Zinnikas <eric@zinnikas.org>

- drivers/cyberpower-mib.c: Support CyberPower RMCARD205

2.1324 2020-06-02 Jim Klimov <jim@jimklimov.com>

- drivers/apc-ats-mib.c: apc-ats-mib.c : use a ..._MODEL_NAME macro and bump version to complete earlier fix

2.1325 2020-05-31 Timothy Pearson <tpearson@raptorengineering.com>

- drivers/snmp-ups.c: Fix long-standing transfer threshold read bug with APCC 3 phase Symmetra units

2.1326 2020-05-14 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/scan_snmp.c: SNMP scan: check the match dup on *mib* instead of *sysoid* This actually avoids duplication when multiple sysOIDs are declared for the same MIB

2.1327 2020-05-01 gprints <g.s@arcor.de>

- drivers/liebert-hid.c: Update liebert-hid.c

2.1328 2020-04-29 Jim Klimov <jim@jimklimov.com>

- scripts/systemd/nut-driver-enumerator-daemon-activator.service.in: nut-driver-enumerator-daemon-activator.service : use older Service/StartLimitInterval for broader compatibility Should help avoid this warning and unachieved functionality on systemd-229 and older: * systemd[1]: [/lib/systemd/system/nut-driver-enumerator-daemon-activator.service:30] Unknown lvalue *StartLimitIntervalSec* in section *Service*

2.1329 2020-04-28 Arnaud Quette <Arnaud.Quette@free.fr>

- drivers/eaton-ats16-mib.c: snmp-ups: cleanup Eaton ATS16 with new Network-M2 Duplicate the definition, as a workaround to the bugger scanner data extraction, and point at the same eaton_ats16 name, since there is no interest in separating mib2nut entries pointing at the same MIB mapping
- tools/nut-snmpinfo.py: Fix Python issue in the SNMP scan extractor
- drivers/huawei-mib.c: Huawei MIB: add a counter check OID This avoids getting a false result when trying all OIDs, due to the use of Net SNMP sysOID (.1.3.6.1.4.1.8072.3.2.10), found in various implementations

2.1330 2020-04-21 Jim Klimov <jim@jimklimov.com>

- scripts/augeas/nutupsdconf.aug.in: nutupsdconf.aug.in: complete the ALLOW_NO_DEVICE definition
- conf/nut.conf.sample, conf/upsd.conf.sample, docs/man/upsd.conf.txt, scripts/augeas/nutupsdconf.aug.in, scripts/augeas/tests/test_nut.aug, server/conf.c, server/upsd.c, server/upsd.h: Rename NUT_NOCONF_ALLOWED to ALLOW_NO_DEVICE as suggested in PR comments
- conf/nut.conf.sample: nut.conf.sample: update the comment about NUT_NOCONF_ALLOWED
- server/upsd.c: upsd.c : CONST char* temp "envvar" as we do not change the string later

2.1331 2020-04-20 Jim Klimov <jim@jimklimov.com>

- scripts/systemd/nut-driver-enumerator-daemon-activator.service.in: nut-driver-enumerator-daemon-activator.service.in : disable quick-start throttling

2.1332 2020-04-17 Jim Klimov <jim@jimklimov.com>

- conf/upsd.conf.sample, docs/man/upsd.conf.txt: Re-spell "Boolean" to satisfy spell-checker
- conf/upsd.conf.sample, docs/man/upsd.conf.txt, scripts/augeas/nutupsdconf.aug.in, scripts/augeas/tests/test_nut.aug, server/conf.c, server/upsd.c, server/upsd.h: Allow to configure NUT_NOCONF_ALLOWED option via upsd.conf

2.1333 2020-04-17 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-ats16-mib.c, drivers/eaton-ats16-mib.h, drivers/snmp-ups.c: snmp-ups: add Eaton ATS16 with new Network-M2 Add support for Eaton ATS16 using the new Network-M2 communication cards, and including a fixed sysOID fingerprint

2.1334 2020-04-03 Jim Klimov <jim@jimklimov.com>

- clients/nutclient.cpp: sanity-check getDevicesVariableValues() called with empty device list

2.1335 2020-03-14 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: nut.dict : fixes for NUT_NOCONF_ALLOWED addition
- scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in: SystemD service units: source EnvironmentFile=. . . nut.conf if available
- conf/nut.conf.sample: nut.conf.sample : prepare an uncommentable line for NUT_NOCONF_ALLOWED=true
- server/upsd.c: introduce support for envvar NUT_NOCONF_ALLOWED=true to allow starting with 0 ups.conf sections

2.1336 2020-02-19 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in: when autostarting/reloading upsd (nut-server), do it for previously "failed" unit too
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in: do systemctl daemon-reload between editing a unit definition and auto-starting it

2.1337 2020-02-09 Laurent Bigonville <bigon@users.noreply.github.com>

- scripts/python/app/nut-monitor.appdata.xml, scripts/python/app/nut-monitor.desktop: Update the appdata file to the latest version of the specification (#727) * nut-monitor: Update the appdata file to the latest version of the specification Fixes: #724 * nut-monitor: Update the desktop file to follow the last version of the sepcification

2.1338 2020-02-09 Jim Klimov <jim@jimklimov.com>

- docs/Makefile.am, docs/documentation.txt, docs/nut.dict, docs/solaris-usb.txt, scripts/Solaris/README: Add docs/solaris-usb.txt for posterity (#755)

2.1339 2020-01-20 Jim Klimov <jim@jimklimov.com>

- NEWS: described nut-driver-enumerator introduction

2.1340 2020-01-15 Clappier, Eric <EricClappier@eaton.com>

- drivers/ietf-mib.c: Issue corection filter ietf mib (cherry picked from commit 93a64efbdae28355be60329b651d3c42c7ddedf8)
- tools/nut-scanner/scan_snmp.c, tools/nut-snmpinfo.py: Fix nutscan snmp (cherry picked from commit bc5a6c218e21c0af454007e292
- drivers/apc-ats-mib.c: Issue correction no pointer null at beginning of the SNMP IDs device table (cherry picked from commit 9d167892a36bf75d30839e7d4d6b53f037751666)

2.1341 2020-01-08 Fernando Chaves <38504809+fernandolcx@users.noreply.github.com>

- drivers/apcupsd-ups.h: apcupsd-ups: add real power and current variables LOAD_W ⇒ ups.realpower LOADAPNT ⇒ power.percent OUTCURNT ⇒ `output.current` LOAD_VA ⇒ `ups.power` NOMAPNT ⇒ `ups.power.nominal` Closes: https://github.com/networkupstools/nut/pull/753

2.1342 2019-11-07 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/powerware-mib.c: SNMP Eaton Gb Network Card: various data completion * fix reading of input.voltage, related to the ending ".0", * fix existing commands handling, * add support for the load segment (managed outlets), including status information and commands

2.1343 2019-11-06 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Add PowerWalker VFI 1000 CG PF1 Closes: https://github.com/networkupstools/nut/issues/648

2.1344 2019-09-25 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/snmp-ups.c: Fix false positive when communication is lost

2.1345 2019-09-19 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-pdu-marlin-mib.c, drivers/powerware-mib.c: SNMP Eaton EMP002: handle sensor presence Sensor may not be present (or connected). However, the values (temperature, humidity, ...) are still available, but should not be considered
- drivers/eaton-pdu-marlin-helpers.c: SNMP Eaton ePDU: always return celsius for temperature since the value reading is always adapted to celsius

2.1346 2019-09-18 andrewmccartney <andrew.mccartney@ametek.com>

- drivers/Makefile.am, drivers/libusb.c, drivers/powervar-hid.c, drivers/powervar-hid.h, drivers/usbhid-ups.c: Changes to add support for Powervar UPM as usb-hid UPS. Includes adding a report index to libusb.c in order to handle the composite device in the UPM.

2.1347 2019-09-12 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/nut-names.txt: Fix wording on ambient collection
- drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-mib.c, drivers/powerware-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: Typo fix: sorry Mr Fahrenheit And thanks to Jim Klimov for the review!
- drivers/eaton-pdu-marlin-mib.c: Fix compilation warning

2.1348 2019-09-12 Andrew Anderson <andrew@lirn.net>

- drivers/pijuice.c: Conditionally include linux/i2c.h Check for I2C_FUNC_I2C to avoid errors caused by conflicts between linux/i2c-dev.h and linux/i2c.h
- configure.ac, drivers/pijuice.c: Add more granular I2C support checks Accommodate one more variation of SMBUS/I2C support where both the headers and the libraries exist and are usable.
- drivers/pijuice.c: Pull over the latest development version Clean up the upsdebugX() labels Pull the conditional I2C support code closer to the includes block Don't report battery temp as UPS temp Warn if we adjust shutdown_delay
- drivers/pijuice.c: Fix the length passed into memset()
- drivers/asem.c: Add pijuice I2C driver for PiJuice HAT 4/4 Update asem.c to complie cleanly by adding an include for <sys/ioctl.h>
- configure.ac: Add pijuice I2C driver for PiJuice HAT 3/4 Check for both the i2c-tools 3.x and 4.x include files (i2c-dev.h/smbus.h) and set flags accordingly. Link with the i2c library file from i2c-tools 4.x if it is available.
- drivers/Makefile.am: Add pijuice I2C driver for PiJuice HAT 2/4 Update the driver Makefile.am to add pijuice driver to the LINUX_I2C_DRIVERLIST
- drivers/pijuice.c: Add pijuice I2C driver for PiJuice HAT 1/4 Add pijuice driver

2.1349 2019-09-09 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/nut-names.txt: nut-names: increase ambient collection Add several variables to the ambient collection, to support smart sensors like Eaton EMPDT1H1C2
- drivers/powerware-mib.c: SNMP Eaton Gb Network Card: support for EMPDT1H1C2
- drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-helpers.h, drivers/eaton-pdu-marlin-mib.c: SNMP Eaton ePDU: support for EMPDT1H1C2
- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: support for daisychained ambient sensor

2.1350 2019-09-02 Laurent Bigonville <bigon@bigon.be>

- scripts/python/app/nut-monitor.desktop: nut-monitor: Drop the .png extension for the Icon in the .desktop file

2.1351 2019-08-18 Laurent Bigonville <bigon@bigon.be>

- scripts/python/Makefile.am, scripts/python/app/icons/256x256/nut-monitor.png, . . . /python/app/{ ⇒ icons/48x48}/nut-monitor.png, scripts/python/app/icons/64x64/nut-monitor.png, scripts/python/app/icons/scalable/nut-monitor.svg: nut-monitor: Add scalable, 64x64 and 256x256 icon for nut-monitor FTR, this icon comes from gnome-icon-theme 2.28

2.1352 2019-07-30 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_siemens_sitop.c: nutdrv_siemens_sitop: move to the new "battery.charge.approx" var
- data/cmdvartab, docs/nut-names.txt: Add and document a new "battery.charge.approx" var

2.1353 2019-07-22 rpvelloso <rvelloso@gmail.com>

- drivers/solis.c: solis: avoid index out of bounds Since the parameter taken by autonomy_calc() is used to index a couple of arrays of 5 positions and the variable `im`, which is passed to autonomy_calc(), can be equal to 4, blindly incrementing it by one, when it's 4, leads to an index out of bounds.

2.1354 2019-07-12 Spencer Shimko <spencer@quarksecurity.com>

- drivers/tripplite_usb.c: Report load for Tripp Lite USB 3005 protocol The debug output for a device using the Tripp Lite 09ae 3005 protocol seems to show that the ups.debug.L is the load as noted on mailing list posts. Decode it and report it as ups.load. Tested on TRIPP LITE SMART500RT1U.

2.1355 2019-07-11 Jim Klimov <jim@jimklimov.com>

- scripts/Solaris/nut-driver.xml.in: Solaris/nut-driver.xml.in : constrain the impact of managing SMF instances for missing devices
- scripts/systemd/nut-driver@.service.in: nut-driver@.service.in : fix back templated @SBINDIR@
- scripts/systemd/nut-driver@.service.in: Problem: Attempts to start a nut-driver@bogusname actually run upsdrvctl on everything Solution: First check if service instance name is valid, then use it Should fix https://github.com/42ity/nut/issues/87

2.1356 2019-07-10 Laurent Bigonville <bigon@bigon.be>

- clients/Makefile.am, tools/nut-scanner/Makefile.am: libupsclient, libnutscan: Only export symbols part of the public API Fixes: #713

2.1357 2019-07-09 Laurent Bigonville <bigon@bigon.be>

- clients/upsclient.c, clients/upsmon.c, drivers/apcsmart.c, drivers/bcmxcp.h, drivers/bestuferrups.c, drivers/main.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-hid.c, drivers/mge-mib.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_qx_q1.h, drivers/optiups.c, drivers/solis.c, scripts/python/app/NUT-Monitor, tools/nut-scanner/nut-scanner.c: Fix several typos
- configure.ac, lib/libupsclient.pc.in, m4/nut_check_libnss.m4, m4/nut_check_libopenssl.m4: Use pkg-config module names instead of listing the libraries Fixes: #709

2.1358 2019-07-02 Jim Klimov <jim@jimklimov.com>

- common/common.c: common.c : BUILD_64 not detected in some distros, needs stdint.h

2.1359 2019-04-26 William Chase <wchome@freet.org>

- drivers/bestfcom.c: Fix for Ferrups FE7000 "off" command (#692) "off" command for FE7000 required at least 5 seconds for the command to be accepted. Also should match the off with autostart or "o" with "a" to be consistent with the manual: https://www.eaton.com/content/dam/eaton/products/backup-power-ups-surge-it-power-distribution/backup-power-ups/eaton-ferrups-tower-ups/eaton-ferrups-FE-QFE-userguide-.pdf (o [time] a is how the manual references the "short" command)

2.1360 2019-04-16 Ross Williams <ross@ross-williams.net>

- drivers/snmp-ups.c: snmp-ups: add ability to set TimeTicks correctly (#687) * snmp-ups: add ability to set TimeTicks correctly Driver had been setting read/write parameters as either Integer or String, but OIDs that expect TimeTicks cannot be set using an Integer. snmp-ups already supported getting TimeTicks correctly and had helper functions for setting TimeTicks, but logic had not been implemented in su_setOID(). * Missing semicolon ;-(
- snmp-ups: use NUT's str_to_long() in su_setOID() Safer conversion from provided strings to instant command or read/write value. Omitted default value if !SU_MODE_INSTCMD because it is not possible for read/write variable functions to be called without a value (unlike instant commands).

2.1361 2019-04-15 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : optimize large string-emptiness tests
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : expose for debugging hook_findSavedDeviceName and hook_getSavedDeviceName
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : fix systemd_findSavedDeviceName() to return expected values
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : avoid sub-shelling and varname clash in smf_setSavedU and smf_setSavedMD5()

2.1362 2019-04-11 Jim Klimov <jimklimov@gmail.com>

- drivers/eaton-pdu-marlin-mib.c, drivers/snmp-ups.c: [DNMY] Fix snmp templates (#681) * eaton-pdu-marlin-mib.c : move "outlet.count" query higher * snmp-ups.c : anticipate lack of OIDs in templates

2.1363 2019-04-11 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : in systemd_getSavedDeviceName() strip quotes around returned DEVICE == "..." value
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : escape the verbatim dollar in doublequotes

2.1364 2019-04-05 Jim Klimov <jimklimov@gmail.com>

- .travis.yml, Makefile.am, ci_build.sh: Introduce shell script syntax checks (#675) * Introduce shell script syntax checks * Makefile.am : do not shellcheck/spellcheck by default as it can fail for external circumstances (e.g. missing tools) * Makefile.am : visibly separate the "check-scripts-syntax" implementation (with current system shells) vs "shellcheck" which may get impemented differently (with external tools) in later iterations * Makefile.am : update the check-scripts-syntax comment (clarify text, fix typo) * Makefile.am : clarify the check-scripts-syntax vs shellcheck comment * .travis.yml and ci_build.sh : leave TBDs for future shellcheck tool integration * ci_build.sh : call both shellcheck and check-scripts-syntax targets; it does not duplicate the work and reports while one calls another for now - and will do two tests when they become independent
- configure.ac: configure.ac : fix mismatched usage of have_cxx11 envvar (#689)
- server/conf.c: Problem: isdigit() receives a char* instead of char (#690) Solution: as a quick fix, pick the first char of the string we pass. The proper fix would be to use the str_*() API for safe conversions, in a later iteration. See-also: https://github.com/-networkupstools/nut/issues/676

2.1365 2019-04-05 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : typo fix in systemd_findSavedDeviceName()

2.1366 2019-04-01 Ross Williams <ross@ross-williams.net>

- drivers/cyberpower-mib.c: cyberpower-mib: fix instant command declarations Had desired OID values in default value field. Also, default value for SU_TYPE_CMD should be NULL.
- drivers/cyberpower-mib.c: cyberpower-mib: got delay OID wrong Left off .0
- drivers/cyberpower-mib.c: cyberpower-mib: Add delay variables Add some read/write variables affecting the sleep delay and return delay.
- drivers/cyberpower-mib.c: cyberpower-mib: fix instant command declarations Had desired OID values in default value field. Also, default value for SU_TYPE_CMD should be NULL.
- drivers/cyberpower-mib.c: cyberpower-mib: NUT runtime is seconds not minutes
- drivers/cyberpower-mib.c: cyberpower-mib: clarify status values
- drivers/cyberpower-mib.c: cyberpower-mib: correct sysOID At least newer CyberPower management cards report a sysOID of CPS-MIB::ups, not the base CyberPower enterprise MIB that was previously defined.

2.1367 2019-04-01 Jim Klimov <jimklimov@gmail.com>

- include/common.h: common.h : use the common do/while idiom for macro with if clause

2.1368 2019-04-01 Jim Klimov <jim@jimklimov.com>

- common/common.c, include/common.h: Problem: upsdebug*() pass data and allocate vars always Solution: wrap old well-known API routines into macros that check debugging level first, and only invest into calling routines and passing data later - if that would not be in vain.
- docs/nut.dict: nut.dict : add "daemonize"
- docs/man/nut-driver-enumerator.txt, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in man/nut-driver-enumerator.txt : document --daemon-after mode

2.1369 2019-03-29 Ross Williams <ross@ross-williams.net>

- drivers/cyberpower-mib.c: cyberpower-mib: Add instant commands
- drivers/cyberpower-mib.c: cyberpower-mib: Add instant commands
- drivers/cyberpower-mib.c: cyberpower-mib: add support for battery status Reports LB, CAL, and RB flags

2.1370 2019-03-29 Jim Klimov <jimklimov@gmail.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refactor nut_driver_enumerator_full_reconfigure() into a routine
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refactor get_service_for_device() into a routine
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : added update_upslist_savednames_find_missing() into single-run and daemonized modes, to update inconsistent configs
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refactor list_services_for_devices(_once) and get_device_for_service() into routines
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : introduce upslist_savednames_missing() and upslist_savednames_find_mismatch() to upgrade entries without saved names
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : comment that we trust hook_getSavedDeviceName data to be consistent (ensuring it is is expensive and belongs elsewhere)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : to be sure, chop instance names from SMF FMRIs more intensively
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : introduce hook_findSavedDeviceName() for faster --get-service-for-device processing
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : use hook_getSavedDeviceName() to speed up --get-device-for-service processing where possible (typo fix)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : standardize hook_setSavedDeviceName()
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : use hook_getSavedDeviceName() to speed up --get-device-for-service processing where possible
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : update © 2019
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refactor expansions "$_VAR" ⇒
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : add a BIG NOTE about shell interpreter

2.1371 2019-03-28 Jim Klimov <jimklimov@gmail.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : save original device name into service props
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : run smf_setSaved*() in subprocesses to avoid variable pollution in caller
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : smf_setSavedMD5() : refactor the actual setter into smf_setSavedUniq() for other use-cases
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : smf_setSavedMD5() : do not spam stderr about yet-missing property
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : smf_setSavedMD5() : do not try to refresh the non-instance service (for global config)

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : smf_getSavedMD5() : do not spam stderr about yet-missing property
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh : do not create a hashed SMF instance if failed to add a normally-named one because it already exists (clean it up and then add)

2.1372 2019-03-25 Jean-Baptiste Boric <boricj@users.noreply.github.com>

- tools/nut-scanner/scan_snmp.c: Fix nut-scanner SNMPv3 (#680)

2.1373 2019-03-19 Jim Klimov <jim@jimklimov.com>

- drivers/main.c: drivers/main.c : rearrange handling of configured nut_debug_level_global vs nut_debug_level_driver vs ultimately used nut_debug_level
- drivers/main.c: driver/main.c : separate toggles for driver debugging and backgrounding

2.1374 2019-03-19 Jean-Baptiste Boric <boricj@users.noreply.github.com>

- tools/nut-scanner/scan_snmp.c: Fix SNMPv3 in nut-scanner (#679)

2.1375 2019-03-19 Arnaud Quette <arnaud.quette@free.fr>

- drivers/compaq-mib.c, drivers/eaton-ats16-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/hpe-pdu-mib.c, drivers/netxml-ups.c, drivers/powerware-mib.c: Refresh firmware information for Eaton/HPE devices Despite the static nature of these data, firmware can be updated by various means, and should thus be refreshed by the driver, without needing a driver restart. A "semi static" approach should be done in the end, as in usbhid-ups, but is not part of the present development, though commented in the code. For the time being, simply remove the STATIC flags to refresh the data (snmp-ups) and allow to refresh product information (netxml-ups)

2.1376 2019-03-18 Jim Klimov <jim@jimklimov.com>

- drivers/main.c: drivers/main.c : allow to configure debug_min=NUM to ease service debugging

2.1377 2019-03-15 Arnaud Quette <arnaud.quette@free.fr>

- NEWS: Add entry for openssl-1.1.0 support

2.1378 2019-03-15 Arjen de Korte <build+github@de-korte.org>

- clients/upsclient.c, clients/upssched.c, m4/nut_check_libopenssl.m4, server/netssl.c: Add support for openssl-1.1.0 (#504) * Add support for openssl-1.1.0 * Allow TLSv1 and higher (not just TLSv1) * Fix check for empty string * Report TLS handshake in debug mode * Update nut_check_libopenssl.m4 * Update upsclient.c * Update netssl.c

2.1379 2019-03-14 Charles Lepple <clepple+nut@gmail.com>

- docs/man/nutupsdrv.txt, docs/man/ups.conf.txt: nutupsdrv: reword "user" directive section Closes: https://github.com/networkupstools/nut/issues/336 Closes: https://github.com/networkupstools/nut/issues/671

2.1380 2019-03-13 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut.dict: Update spelling dictionary
- docs/nut.dict: Update spelling dictionary

2.1381 2019-03-11 Jean-Baptiste Boric <boricj@users.noreply.github.com>

- clients/nutclient.cpp, clients/nutclient.h, docs/new-clients.txt, docs/nut.dict: Implement tracking commands in libnutclient (#673)
- Implement tracking commands in libnutclient * Add TrackingResult::INVALID_ARGUMENT

2.1382 2019-03-11 Arnaud Quette <arnaud.quette@free.fr>

- docs/new-clients.txt: libnutclient: add comments to the code sample

2.1383 2019-02-28 Arnaud Quette <arnaud.quette@free.fr>

- NEWS: Update NEWS for next release

2.1384 2019-02-26 Roberto Panerai Velloso <rvelloso@gmail.com>

- drivers/solis.c, drivers/solis.h: Added author info for previous merge https://github.com/networkupstools/nut/pull/511 (#672) * added author information

2.1385 2019-02-26 Arnaud Quette <arnaud.quette@free.fr>

- drivers/solis.c: Fix regression in solis authors list
- clients/Makefile.am, clients/upsclient.c, clients/upsclient.h, clients/upscmd.c, clients/upsrw.c, common/snprintf.c, conf/upsd.conf.sam docs/man/Makefile.am, docs/man/upscli_cleanup.txt, docs/man/upscli_readline.txt, docs/man/upscli_sendline.txt, docs/man/upscmd.txt, docs/man/upsd.conf.txt, docs/man/upsrw.txt, docs/net-protocol.txt, docs/nut-names.txt, docs/nut.dict, docs/sock-protocol.txt drivers/dstate.c, drivers/upshandler.h, include/common.h, scripts/augeas/nutupsdconf.aug.in, scripts/augeas/tests/test_nut.aug, server/conf.c, server/netget.c, server/netinstcmd.c, server/netset.c, server/nut_ctype.h, server/sstate.c, server/upsd.c, server/upsd.h, tools/nut-scanner/nut-scanner.c: INSTCMD and SET VAR status tracking implementation (#659) * INSTCMD and SET VAR status tracking implementation This commit implements the instant commands (instcmd) and variables settings (setvar) status tracking, to get the actual execution status from the driver * Missing Revision history * Fix nut-names.txt modification that should not be here * Augeas support: add CMDSETSTATUSDELAY for upsd.conf * INSTCMD and SET VAR status tracking completion Following Daniele Pezzini thorough review, sanitize and improve the code, and also complete documentation * INSTCMD and SET VAR status tracking completion implement support for status tracking in upscmd and upsrw * upscmd/upsrw: delay retries for status tracking * Remove comment There is no need to condition CMDSET_STATUS commands received by upsd from the driver, on cmdset_status_enabled, since what matters is the presence of a list and id * Complete comment * UUID v4 implementation replaced the initial rxi/uuid4 library used by a cross platform version. Though more basic, it is enough for our needs, at least for now * status_info should be static * No need for else, since fatalx is called before * Suppress \n from debug output * Group sanity checks * Get rid of dynamic memory allocation * Improve and enforce the use of UUID4_LEN * Comment on the size of dest for nut_uuid_v4() * Move structures and defines to more appropriate places * Add functions with timeout Add upscli_sendline_timeout and upscli_readline_timeout, beside from the classic blocking versions. Also make a common define for timeout, and use it in upsclient and nut-scanner * upscmd/upsrw: add a timeout option
- Basic homebrew UUID v4 implementation * Prefer to use static buffer for UUID * log actual result of instcmd / setvar * Fix tracking ID reporting due to static memory changes * upsclient: use unsigned int for timeouts Also, explicit that upscli_cleanup() takes no argument. * upscmd/upsrw: use unsigned int for timeout \+ our str_to_uint() for it Also, slightly reword the help message for `-t` (timeout) option, in order to clarify which is the unit (seconds) used for the provided value. *

upscmd/upsrw: don't sleep after receiving a non-PENDING CMDSET_STATUS Also, remove some nesting in do_cmd() and do_set(). * net-protocol: clarify the format of GET CMDSET_STATUS \+ <status_id> <status_id> is not optional to get the status of a command/setvar with CMDSET_STATUS, so drop the [square brackets] from it. Also drop "quotes" in SET CMDSET_STATUS's <value>, since it's expected to be a single word. Plus, fix markup of INSTMCD's <cmdparam> parameter. * sock-protocol: align case and markup of command parameters * dstate: fix handling of INSTCMD's optional parameters We should still support the old `INSTCMD <cmdname> [<cmdparam>]` format, and not only consider <cmdparam> when also `STATUS_ID <id>` is provided. Also, fix the format of our sock-protocol commands mentioned in comments, and add function names to debug info. * common: document the recently added things * upsd: in INSTCMD/SET handlers, also accept NULL for status_id Plus: - use a simpler approach to test if status_id is not empty, - align the way the SET command is built to the one used for the INSTCMD command. * upsd: drop unnecessary/unused global * upsd: move sanity checks of cmdset_status_get() after declaration of vars Also, drop some nesting in that function. * Move from CMDSET_STATUS / STATUS_ID to TRACKING This is just a big, big rename, no code changes. * upsd: refine the tracking API Add a couple of functions to change in a predictable way the value of the general enablement of tracking and make it visible only inside upsd.c. Also, move the tracking type (tracking_t) and the list of items inside upsd.c. * net-protocol: also return TRACKING between OK and <id>, for INSTCMD/SET VAR * dstate: **really** fix handling of INSTCMD's optional parameters Erroring out on `INSTCMD <cmdname>` doesn't seem like a good idea... * common: massage default timeouts Rename the default timeout used in network operations by upsclient and nut-scanner to be more specific: from DEFAULT_TIMEOUT to DEFAULT_NETWORK_TIMEOUT. Plus, make the default timeout used when retrieving the result of an INSTCMD/SET VAR with TRACKING enabled a common #define'd value (DEFAULT_TRACKING_TIMEOUT), and use it also to publish the default value of the -t option in the help messages of upscmd and upsrw. As suggested by Charles Lepple. * upsd: ignore case of UUID4 in tracking API Also, remove some nesting in tracking_del(). * libupsclient: generate manpages for upscli_{read,send}line_timeout() To keep things simple, at least for now, only generate manpages and not html pages (and, as such, don't even think of using our linkman AsciiDoc macro with those functions, to avoid dead links). * libupsclient: bump version as per recent changes - addition of upscli_{read,send}line_timeout(),

- upscli_cleanup() → upcli_cleanup(void) Note: only increase *current* and not *age*, because the upscli_cleanup() change could (potentially) make it not compatible with previous versions. * upscmd/upsrw: warn that also the drivers need to support TRACKING, for -w * Fix typo and spelling * Add check around atoi() conversion

2.1386 2019-02-25 Roberto Panerai Velloso <rvelloso@gmail.com>

- drivers/solis.c, drivers/solis.h: solis: various improvements and fixes - fixed two memory leaks (unnecessary strdup's), - removed ser_flush calls that were causing the driver to desync, - refactored code, mostly bit mainpulation functions, - other minor improvements in source code.

2.1387 2019-02-23 Jim Klimov <jim@jimklimov.com>

- clients/Makefile.am: clients/Makefile.am : also consider HAVE_CXX11 for .la target
- tests/Makefile.am: tests/Makefile.am : explicitly consider HAVE_CXX11
- clients/Makefile.am, tests/Makefile.am: tests, clients Makefiles : consider HAVE_CXX11
- configure.ac: configure.ac : expose HAVE_CXX11 into automake
- configure.ac: configure.ac : add C++0X as draft C\+\+11 support detection (older GCC on some systems)
- configure.ac: configure.ac : refactor C\+\+11 detection for readability
- configure.ac: Problem: OpenBSD mktemp complains on short pattern Solution: bump from XXXXX to XXXXXXX which did not complain in another part of the configure script

2.1388 2019-02-20 Jim Klimov <jim@jimklimov.com>

- clients/Makefile.am, tools/nut-scanner/Makefile.am: nut-scanner and clients Makefile.am : comments about version-information

2.1389 2019-02-16 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: nut.dict : add words for upsdrvsvcctl doc

2.1390 2019-02-08 Jim Klimov <jim@jimklimov.com>

- common/common.c: Problem: 32-bit builds fail to load 64-bit libs Solution: Do our best to guess the bitness of a build, and use it in search paths for get_libname()

2.1391 2019-02-03 Daniele Pezzini <hyouko@gmail.com>

- server/upsd.c: upsd: fix the calling of netcmds items' func() Since, as per our network protocol, it's perfectly legal to have single-word commands (and we already have a few, e.g. VER, NETVER, HELP, ...), we do not do an early check to ensure that at least one argument was provided to the command. As such, the list of words generated by parseconf could actually end with the command itself. That said, trying to access something that should not be there doesn't seem like a good idea, so, only pass to netcmds items' func() the list of arguments (which starts at the second item of the list of words), if there are arguments, otherwise just pass NULL.
- server/sstate.c: sstate: make sure ADDRANGE/DELRANGE have all the needed parameters Since ADDRANGE and DELRANGE take 3 arguments (<varname>, <minvalue>, <maxvalue>), we have to ensure all of them were provided, before attempting to use them.
- drivers/dstate.c: dstate: fix dstate_delrange() socket protocol command The documented (and used in server-side) command for deleting a range is `DELRANGE <varname> <minvalue> <maxvalue>`, not `DELRANGE <varname> "<minvalue> <maxvalue>"`, as used in dstate_delrange(). So, fix that unused (well, at least in NUT) function to use the correct format. Also, remove an extraneous additional space in the command used in dstate_addrange().

2.1392 2019-02-01 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac: Fix wording that breaks some syntax highlighting systems
- configure.ac, scripts/augeas/Makefile.am: Augeas support: execute lenses tests if possible This is however disabled for now, while waiting to fix the reported issue Ref: https://github.com/networkupstools/nut/issues/657
- configure.ac: Fix wording that breaks some syntax highlighting systems
- docs/nut-names.txt: Add the missing delayed versions of some commands

2.1393 2019-01-30 Jean-Baptiste Boric <boricj@users.noreply.github.com>

- clients/nutclient.cpp, clients/nutclient.h: libnutclient: introduce getDevicesVariableValues() (#654) A performance bottleneck was identified within the 42ity project, where querying all variable values from 300 ePDUs through upsd and libnutclient took 15 seconds to complete. The new method TcpClient::getDevicesVariableValues() allows querying device variable values in bulk, by sending all LIST VAR commands ahead of time and then parsing all the results at once. Throughput is vastly improved, with the mega-query completing about 15 times faster.

2.1394 2019-01-28 Arnaud Quette <arnaud.quette@free.fr>

- clients/Makefile.am, clients/nutclient.h: libnutclient: fix version and interface * Library version should be updated to reflect changes, and is now 1:0:0 * Interface should be adapted so that the additional argument to instant commands can be optional
- drivers/eaton-pdu-marlin-mib.c, drivers/hpe-pdu-mib.c: snmp-ups: support extra param for instcmd (Eaton/HPE) Add support for extra parameter for instant commands on Eaton and HPE ePDU

- drivers/snmp-ups.c: snmp-ups: fix potential segfault when using delayed instant commands, with a NULL default value, and not providing a value, the driver can segfault
- docs/nut.dict: Fix spellcheck
- clients/nutclient.cpp, clients/nutclient.h, docs/net-protocol.txt: Add support for extra parameter for instant commands Instant commands were almost ready for supporting additional parameter. However, it was not documented, and libnutclient was not supporting it yet

2.1395 2019-01-24 Arnaud Quette <arnaud.quette@free.fr>

- drivers/apc-ats-mib.c, drivers/apc-mib.c, drivers/apc-pdu-mib.c, drivers/baytech-mib.c, drivers/bestpower-mib.c, drivers/compaq-mib.c, drivers/cyberpower-mib.c, drivers/eaton-ats16-mib.c, drivers/eaton-ats30-mib.c, drivers/eaton-pdu-genesis2-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/eaton-pdu-pulizzi-mib.c, drivers/eaton-pdu-revelation-mib.c, drivers/emerson-avocent-pdu-mib.c, drivers/hp-pdu-mib.c, drivers/ietf-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/powerware-mib.c, drivers/raritan-pdu-mib.c, drivers/raritan-px2-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h, scripts/subdriver/gen-snmp-subdriver.sh: snmp-ups: Rework instant commands handling Use snmp_info_t→dfl, which is a char*, instead of snmp_info_t→info_len for instant commands default value. This allows to distinguish between commands that do not require a mandatory value. For instcmd requiring a parameter (such as *.delay), a NULL snmp_info_t→dfl and no extradata will result in STAT_INSTCMD_INVALID value returned Also adapt subdrivers and gen-snmp-subdriver.sh to match this
- drivers/delta_ups-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/huawei-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h, drivers/xppc-mib.c, scripts/subdriver/gen-snmp-subdriver.sh: snmp-ups: Simplify the mapping structure * snmp_info_t→setvar is not used anymore, so drop it, * hence, also delete flag SU_FLAG_SETINT and references to it, * adapt subdrivers and gen-snmp-subdriver.sh to match this

2.1396 2019-01-23 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: Fix warnings (memset-elt-size/pointer-sign)
- drivers/snmp-ups.c: snmp-ups: Actually fix commands offset (off by 1) The last fix was wrongly setting the offset to negative, and substracting it again from the current device number, which resulted in an addition, not a substraction
- drivers/mge-hid.c, drivers/usbhid-ups.c: usbhid-ups / MGE: bump versions to reflect changes

2.1397 2019-01-22 Jean-Baptiste Boric <boricj@users.noreply.github.com>

- drivers/mge-xml.c, drivers/netxml-ups.c, drivers/netxml-ups.h: netxml-ups: Report calibration status (#650)

2.1398 2019-01-22 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-hid.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h: usbhid-ups: Fix erroneous OB report on Eaton UPS Also created a read accessor on status bits and move the related definitions to the driver header
- data/driver.list.in, drivers/Makefile.am, drivers/hpe-pdu-mib.c, drivers/hpe-pdu-mib.h, drivers/snmp-ups.c: snmp-ups: Add support for HPE ePDU

2.1399 2019-01-21 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: Improve ALARM flag handling

2.1400 2019-01-17 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: Fix ALARM flag on non-daisychained devices
- drivers/snmp-ups.c: snmp-ups: Fix erroneous integration of hpe_pdu
- drivers/snmp-ups.c: snmp-ups: Fix commands offset (off by 1)
- drivers/snmp-ups.c: snmp-ups: Fix detection and display of hex strings

2.1401 2019-01-11 Arnaud Quette <arnaud.quette@free.fr>

- drivers/compaq-mib.c: snmp-ups: Add firmware version for new Network card Also bump HPE/Compaq subdriver version to 1.62

2.1402 2018-12-18 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : centralize management of TIMEOUT_CMD and TIMEOUT_ARGS, and use it for driver stop/start - it hangs too sometimes
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : centralize management of TIMEOUT_CMD and TIMEOUT_ARGS, and use it for driver stop/start - it hangs too sometimes
- docs/man/upsdrvsvcctl.txt, scripts/upsdrvsvcctl/upsdrvsvcctl.in: upsdrvsvcctl.in : support --timeout-cmd and --timeout-args to limit running the systemctl/svcadm commands

2.1403 2018-12-07 Scott Shambarger <devel@shambarger.net>

- clients/upsmon.c, clients/upssched.c, common/parseconf.c: Add FD_CLOEXEC flag to config files, pipes and sockets File descriptors are leaking to processes spawned by upsmod and upssched, leading to SELinux errors when (for example) sendmail attempts to read from fd #4.

2.1404 2018-12-05 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : log the reevaluation frequency when daemonizing
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : reword a log message
- scripts/Solaris/nut-driver-enumerator.xml.in: nut-driver-enumerator.xml.in : use --daemon-after to verify that the config was correct, and only then daemonize
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : handle TERM et al more visibly
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : re-evaluate ups.conf checksum if interrupted during sleep
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refactor $RECONFIGURATION_SIGNALS in daemonize() mode and add graceful termination support
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refactor SIGHUP trap handling in daemonize() mode
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : do not further subshell the aready backgrounded daemonize()
- scripts/systemd/nut-driver-enumerator-daemon.service.in, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator-daemon.sh / nut-driver-enumerator-daemon.service.in : support a daemon-after mode

- scripts/systemd/nut-driver-enumerator-daemon-activator.service.in: nut-driver-enumerator-daemon-activator.service.in : Make it a short-lived oneshot service after all
- scripts/systemd/nut-driver-enumerator-daemon.service.in: nut-driver-enumerator-daemon.service.in : remove irrelevant comments (from non-daemonized origins) and we do forking
- scripts/systemd/nut-driver-enumerator-daemon-activator.service.in: nut-driver-enumerator-daemon-activator.service.in : Limit the ammount of times we try to reload/restart nut-driver-enumerator-daemon.service
- .../systemd/nut-driver-enumerator-daemon-activator.service.in: nut-driver-enumerator-daemon-activator.service.in : This unit is intentionally not installed as PartOf/WantedBy anything, no auto-start

2.1405 2018-12-04 Jim Klimov <jim@jimklimov.com>

- configure.ac, docs/config-notes.txt, scripts/systemd/.gitignore, scripts/systemd/Makefile.am, scripts/systemd/README, .../nut-driver-enumerator-daemon-activator.path.in, ...t-driver-enumerator-daemon-activator.service.in, .../nut-driver-enumerator-daemon.s scripts/systemd/nut-driver-enumerator.path.in, scripts/systemd/nut-driver-enumerator.service.in: nut-driver-enumerator-daemon* : Introduce a systemd service unit bundle for daemonized mode
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh : note to not skip full "main" evaluation in daemon mode
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh : support SIGHUP causing a quick reconfig when received both during the sleep and processing in-progress
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh : avoid continuous reconfiguration (esp. in daemon mode)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : for many discovered changes, avoid the lag of running systemctl daemon-reload for every item in the loop
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : in single-run, daemon and full-reconfig modes, take note if the config file had changed while we were running - re-sync services vs sections ASAP then
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : introduce calc_md5_file() and comment calc_md5() a bit better

2.1406 2018-12-01 mjan <mjmail@correo.casa.loc>

- drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_hunnox.c, drivers/nutdrv_qx_hunnox.h: Add support for Hunnox HNX-850

2.1407 2018-11-19 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : critical typo fix (Environment is valid in section Service, not Unit)

2.1408 2018-11-16 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refactor upsconf_getSection_content() to have one place of logic to add the parsed section line
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tests/nut-driver-enumerator-test—ups.conf, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator.sh.in : section-name brackets should contain a single token and not be inside another string
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refactor upslist_normalizeFile_filter() into a more readable standalone routine

2.1409 2018-11-13 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : update the list of config factors that mean an USB nutdrv_qx device
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh / nut-driver-enumerator-test—ups.conf / nut-driver-enumerator.sh.in : extend upsconf_getValue() to query for several values in the same call to more efficiently check if any key/flag is set
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tests/nut-driver-enumerator-test—ups.conf, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh / nut-driver-enumerator-test—ups.conf / nut-driver-enumerator.sh.in : do not ignore driver flags followed by a comment
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : fix \t into TABCHAR
- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : show the expected vs actual diff in any shell interpreter
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : add a disclaimer about config parser (probable non-)conformity to NUT binary definitions
- tests/nut-driver-enumerator-test—ups.conf: nut-driver-enumerator-test—ups.conf : test a section with indented name
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tests/nut-driver-enumerator-test—ups.conf, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh / nut-driver-enumerator-test—ups.conf / nut-driver-enumerator.sh.in : in section-name lines, ignore anything outside the first set of brackets
- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : show a diff of expected vs actual, if the shell allows in-place docs
- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : suggest to a dev how to re-run the failed test verbosely

2.1410 2018-11-05 Jim Klimov <jimklimov@gmail.com>

- tools/Makefile.am, tools/nut-scanner/Makefile.am: tools/ Makefiles : refactor with clarifications from DMF branch (#636)

2.1411 2018-11-04 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : fix svcprop queries to base service level
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : consider "unknown" systemd unit state as one to be restarted
- scripts/upsdrvsvcctl/upsdrvsvcctl.in: upsdrvsvcctl.in : fix -D for debugging level
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tests/nut-driver-enumerator-test—ups.conf, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh / nut-driver-enumerator.sh.in : support USB and Serial modes for nutdrv_qx
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : track changes of global config and restart drivers and nut-server if that happened
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh / nut-driver-enumerator.sh.in : in upslist_debug() show also the global config section
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tests/nut-driver-enumerator-test—ups.conf, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh / nut-driver-enumerator.sh.in : support flag values (line is a single token)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : do not use an "other" section as a magic value
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : "break" the loop, not return from it (artefact of moving code from a sub-shell)

2.1412 2018-11-01 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh : Use a timeout to restart/reload nut-server (systemd)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh : Do not restart/reload nut-server if not already running (systemd)

2.1413 2018-10-22 Robert W. Cashman <rob@cashmans.org>

- drivers/cyberpower-mib.c: Added UPS load, battery charge, input voltage/frequency, and output voltage, MIB mappings to cyberpower-mib.c

2.1414 2018-10-12 Jim Klimov <jim@jimklimov.com>

- .travis.yml: .travis.yml : move nut-driver-enumerator-test jobs lower in stack - we want slow jobs to start first
- .travis.yml: .travis.yml : matrix job seems to require having at least two items

2.1415 2018-10-11 Jim Klimov <jimklimov@gmail.com>

- tests/nut-driver-enumerator-test.sh: Update nut-driver-enumerator-test.sh Standardize the testing setup

2.1416 2018-10-11 Jim Klimov <jim@jimklimov.com>

- builds/nut-driver-enumerator-test/ci_build.sh: builds/nut-driver-enumerator-test/ci_build.sh : use the "selftest" dummy service framework if systemd is not available in the testing OS environment
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : support a "selftest" dummy service framework
- builds/nut-driver-enumerator-test/ci_build.sh: builds/nut-driver-enumerator-test/ci_build.sh : let the tests have some SERVICE_FRAMEWORK
- tests/nut-driver-enumerator-test.sh: tests/nut-driver-enumerator-test.sh : update envvar processing
- builds/nut-driver-enumerator-test/ci_build.sh: builds/nut-driver-enumerator-test/ci_build.sh : export BUILDDIR SRCDIR for the test script
- builds/nut-driver-enumerator-test/ci_build.sh: builds/nut-driver-enumerator-test/ci_build.sh : debug the testing script itself
- .travis.yml, builds/nut-driver-enumerator-test/ci_build.sh, tests/nut-driver-enumerator-test.sh: Problem: nut-driver-enumerator not Travised Solution: Add call to its selftest

2.1417 2018-10-10 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: nut.dict : add components of --show-all-configs
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : echo if there is nothing to reconfigure (add timestamp, do not spam in daemonized loop by default)
- scripts/Solaris/postinstall.in, scripts/Solaris/preremove.in: Solaris preremove.in postinstall.in : pass the last-active nut-driver-enumerator instance across package upgrades done over a short timeframe
- scripts/Solaris/postinstall.in, scripts/Solaris/preremove.in: Solaris preremove.in postinstall.in : less spam from "svcadm clear" of not-failed services

- scripts/Solaris/postinstall.in, scripts/Solaris/preremove.in: Solaris preremove.in postinstall.in : support the multi-instance nut-driver-enumerator service now
- tests/Makefile.am: tests/Makefile.am : EXTRA_DIST the new nut-driver-enumerator-test script and config
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : echo if there is nothing to reconfigure (early on or after the loop has done some changes)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : update comments regarding SMF service instance wrapping
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : test for changed sections before testing for changed set of section vs service names
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : small sanity check in upslist_checksums_unchanged()
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : update comments regarding new support for detection of changed device section contents
- scripts/upsdrvsvcctl/upsdrvsvcctl.in: upsdrvsvcctl.in : SMF service management should wait for completion, to be same as systemd
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : optimize loop work
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : basic support for detecting changes in ups.conf
- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : commented a couple of FIXMEs illustrated by the test expected data
- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : call testcase_upslist_debug() last in the suite
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : store SECTION_CONTENT in a variable and spit it out once
- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : update tests for only trimming whitespace around first "=" character
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : refer to systemd unit via SVCINST not $1 when registering
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : update comments
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : drop unneeded assignment in calc_md5()
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : in upslist_normalizeFile() only trim whitespace around first "=" character (do not touch subsequent ones in value part)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : optimize upsconf_getValue() since we use pre-normalized data
- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : add DEBUG=trace
- tests/nut-driver-enumerator-test—ups.conf, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : add a test case for dummy-ups proxying to a localhost "remote" device; add examples of quoted key values with spaces

2.1418 2018-10-09 Jim Klimov <jim@jimklimov.com>

- tests/nut-driver-enumerator-test—ups.conf, tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : add a test case for querying global config pseudo-section
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : support getting global config values (when device section value is empty)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : zsh not supported

- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : add a test case for config value that was quoted
- tests/nut-driver-enumerator-test.sh: nut-driver-enumerator-test.sh : control values of section and device name checksums in upsconf_debug()
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : expose section and device name checksums in upsconf_debug()
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : introduce upsconf_getSection_MD5() to checksum the normalized payload of a config section
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : in --reconfigure should exit() not return()
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : in systemd_validFullUnitName() add the .service suffix if needed
- tests/.gitignore, tests/nut-driver-enumerator-test—ups.conf, tests/nut-driver-enumerator-test.sh: Introduce simple unit tests for nut-driver-enumerator.sh
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : expose upsconf_debug() and upslist_debug() to CLI
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : avoid direct exit during loop processing
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : use a variable SYSTEMD_CONFPATH
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : use UPSCONF_DATA_SDP and rearrange getSection() routines for certain use-cases
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : use upslist_readFile_once() in command-line tools to avoid re-parsing the config many times
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : use cached UPSCONF_DATA in upsconf_getSection() rather than FS access every time
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : rearrange and document the initial slurping and normalization of ups.conf, reducing the work done
- docs/man/nut-driver-enumerator.txt, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, scripts/upsdrvsvcctl/upsdrvsvcctl.in: nut-driver-enumerator.sh.in : add --show-configs to expose UPSCONF_DATA with normalized content of ups.conf

2.1419 2018-10-05 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/upsdrvsvcctl.in: upsdrvsvcctl.in : add "reconf(igure)" call to pass into nut-driver-enumerator.sh
- scripts/upsdrvsvcctl/upsdrvsvcctl.in: upsdrvsvcctl.in : update usage()
- docs/man/nut-driver-enumerator.txt, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.txt : make spellchecker happy
- scripts/Solaris/postinstall.in: solaris postinstall : REPORT_RESTART_42=no when reconfiguring
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : update message for reconfig dropping of old service
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : fix fall-through daemonization for DASH
- scripts/Solaris/README: Solaris README : update about two nut-driver-enumerator instances
- docs/man/nut-driver-enumerator.txt: nut-driver-enumerator.txt : add recently introduced options into manpage
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : typo fix
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : typo fix

- scripts/Solaris/nut-driver-enumerator.xml.in: nut-driver-enumerator.xml.in : support daemonization into background (contract service)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : support daemonization into background
- scripts/Solaris/nut-driver-enumerator.xml.in: nut-driver-enumerator.xml.in : typo fix
- scripts/Solaris/nut-driver-enumerator.xml.in: nut-driver-enumerator.xml.in : avoid creating default service twice
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : support SIGHUP for the daemon
- scripts/Solaris/README, scripts/Solaris/nut-driver-enumerator.xml.in: nut-driver-enumerator : use --daemon(=freq) in Solaris SMF service, implement it as an option (two prepackaged services, with and without loop)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator : add --daemon(=freq) to monitor ups.conf vs. services changes ourselves in a loop
- scripts/Solaris/postinstall.in: nut-driver-enumerator : use --reconfigure to remake units from scratch in Solaris postinstall
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator : add --reconfigure to remake units from scratch

2.1420 2018-10-04 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : for network-depending connections, wait for ifplugd to set up physical network, if enabled
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : for network-depending connections, wait for DNS resolver to appear
- scripts/systemd/nut-driver-enumerator.service.in: nut-driver-enumerator.service.in : do NOT remain active when done, allow nut-driver-enumerator.path to start this again
- scripts/Solaris/README: Solaris README : note that there is no dynamic refresh when ups.conf is changed
- scripts/Solaris/README: Solaris README : update reference to upsdrvsvcctl directory
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : when removing a systemd instance, also remove systemd complaints about it (if any)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : less ambiguity - manage ".service" instances as such

2.1421 2018-10-03 Jim Klimov <jimklimov@gmail.com>

- common/common.c: get_libname() : support more 64-bit pathname patterns (#609)

2.1422 2018-10-02 Jim Klimov <jim@jimklimov.com>

- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : in systemd use-case, fall back to rude restart if reload-or-restart of nut-server stalled and failed

2.1423 2018-09-28 Jim Klimov <jimklimov@gmail.com>

- scripts/systemd/nutshutdown.in: Update nutshutdown.in No strict restrictions for fallback timeout

2.1424 2018-09-27 Jim Klimov <jim@jimklimov.com>

- scripts/Solaris/nut-server.xml.in, scripts/Solaris/svc-nut-server.in, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in / nut-server.xml.in / svc-nut-server.in : reload the running upsd instead of restarting it fully when possible (Solaris SMF)
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : reload the running upsd instead of restarting it fully when possible (Linux SystemD)

2.1425 2018-09-26 Jim Klimov <jim@jimklimov.com>

- scripts/systemd/nut-driver-enumerator.path.in: nut-driver-enumerator.path.in : typo fix for CONFDIR ⇒ CONFPATH
- docs/man/Makefile.am: docs/man/Makefile.am : handle other nutclient*.3 manpages that are mass-implemented by some libnutclient*.txt
- scripts/systemd/nutshutdown.in: nutshutdown.in : fallback short timeout if config is absent or not parsable
- scripts/systemd/nutshutdown.in: nutshutdown.in : check that needed programs exist first

2.1426 2018-09-19 Jim Klimov <jim@jimklimov.com>

- configure.ac: configure.ac : syntactic sugar
- drivers/usbhid-ups.c: usbhid-ups.c : report the libusb version involved in the driver at this time - reformatted
- drivers/usbhid-ups.c: usbhid-ups.c : report the libusb version involved in the driver at this time - also the values registered with comm_driver structure
- drivers/usbhid-ups.c: usbhid-ups.c : report the libusb version involved in the driver at this time
- drivers/usbhid-ups.c: usbhid-ups.c : report the libusb version involved in the driver at this time - reformatted
- drivers/usbhid-ups.c: usbhid-ups.c : report the libusb version involved in the driver at this time - also the values registered with comm_driver structure
- drivers/usbhid-ups.c: usbhid-ups.c : report the libusb version involved in the driver at this time
- tools/Makefile.am, tools/nut-scanner/Makefile.am: Update comments in tools(/nut-scanner)/Makefile.am regarding new more proper dependency definitions

2.1427 2018-09-19 Arnaud Quette <ArnaudQuette@Eaton.com>

- server/upsd.c: upsd should return EXIT_FAILURE when -c failed

2.1428 2018-09-17 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: update support level of some Meta System devices As per the provided protocol: see nut-website's 66d30c90401ff7929b25e5a87f9299b728f861ea

2.1429 2018-09-08 Jim Klimov <jimklimov@gmail.com>

- drivers/usbhid-ups.c: usbhid-ups.c : libusb/libshut tracing debug text

2.1430 2018-09-08 Jim Klimov <jim@jimklimov.com>

- tools/Makefile.am: tools/Makefile.am : GENERATED_USB_FILES also depend on nutdrv_qx.c
- tools/Makefile.am: tools/Makefile.am : generalize GENERATED_SNMP_FILES too for consistency
- tools/Makefile.am: Makefile.am : fix back calling scripts from distdir while being in builddir
- scripts/Solaris/postinstall.in: Solaris/postinstall.in : clarify tests for present vs non-empty config files
- scripts/Solaris/postinstall.in, scripts/Solaris/postremove.in, scripts/Solaris/preinstall.in, scripts/Solaris/preremove.in: Insert or update header comments in Solaris pre/post-install/remove scripts

2.1431 2018-09-07 Jim Klimov <jimklimov@gmail.com>

- tools/Makefile.am, tools/nut-snmpinfo.py, tools/nut-usbinfo.pl: tools/nut-snmpinfo.py tools/nut-usbinfo.pl tools/Makefile : use TOP_SRCDIR/TOP_BUILDDIR to pass with distcheck too
- tools/Makefile.am: tools/Makefile.am : update dependency on C sources
- Makefile.am: Makefile.am : "dist" drivers/*.c before tools (which generates further files from that)
- drivers/libusb0.c, drivers/libusb1.c: libusb0/1.c : ease debugging by trace messages
- drivers/libusb1.c: libusb1.c : inverted order of usb_communication_subdriver_t name/ver fields
- drivers/libusb0.c: libusb.c : inverted order of usb_communication_subdriver_t name/ver fields
- configure.ac: configure.ac : syntactic sugar
- drivers/libusb.c: libusb.c : inverted order of usb_communication_subdriver_t name/ver fields
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : fix initial setup with 0 service instances present
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: nut-driver-enumerator.sh.in : try to enable "nut-server" when restarting it
- tools/Makefile.am: tools/Makefile.am : avoid rebuilding generated files after "make dist" over and over
- tools/nut-scanner/Makefile.am: tools/nut-scanner/Makefile.am : structurally arrange built dependencies, reduce hardcoded references to their names

2.1432 2018-09-06 Jim Klimov <jimklimov@gmail.com>

- drivers/libshut.c, drivers/libusb.c, drivers/usbhid-ups.c: libusb tracing debug text

2.1433 2018-09-06 Gabriele Taormina <gabriele.taormina@legrand.com>

- drivers/metasys.c: metasys: retrieve also battery charge and runtime The added command is only supported by devices with an *id code* >= 14, while for other, older, models the command is not enabled by default, and the user has to perform a specific procedure via serial to enable it (where supported).

2.1434 2018-09-06 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: add some Legrand devices supported by nutdrv_qx Also, specify that Legrand Multiplug is USB-only.
- data/driver.list.in: HCL: update support level of some Meta System devices As per the provided protocol: see nut-website's 570c1e5e9f1fb4f82abef9359897b5159e88fc50 Also, fix name of "HF Line /2".

2.1435 2018-09-05 Daniele Pezzini <hyouko@gmail.com>

- drivers/metasys.c: metasys: remove useless initialisation of vars

2.1436 2018-08-29 Jim Klimov <jim@jimklimov.com>

- scripts/systemd/Makefile.am: EXTRA_DIST scripts/systemd/nut.target also

2.1437 2018-08-27 Gabriele Taormina <gabriele.taormina@legrand.com>

- data/driver.list.in, drivers/metasys.c: metasys: support some newer Meta System and Legrand devices Add to the metasys driver a few new models (Meta System DHEA, and others now branded Legrand) speaking the Meta System UPS protocol.
- drivers/metasys.c: metasys: treat any \0 in the serial number as a *0*
- drivers/metasys.c: metasys: for bypass mode, call status_set() with "BYPASS", not "BY"
- drivers/metasys.c: metasys: fix handling of errors/special values As per protocol documentation, data is sent by the device with unsigned integers of 8, 16 or 32 bits, with errors/special values being: - for uint16: 0xFFFF and 0xFFFE, - for uint32: 0xFFFFFFFF. Alas, those values are (and, probably, have always been) actually reported in the documentation (mostly) as if their types were not unsigned (so, in decimal: -1, and -2) and the metasys driver used them like that, converting the values to non-fixed width signed types (int and long) and then expecting a value of -1 or -2 to signal a particular event, but this only happens on platforms where int is exactly 16 bits, and long 32 bits. So, leave values as unsigned types (adjusting all the printf formats accordingly), and use the right hex values, instead.
- data/driver.list.in, drivers/Makefile.am, drivers/legrand-hid.c, drivers/legrand-hid.h, drivers/usbhid-ups.c: usbhid-ups: add Legrand subdriver
- data/driver.list.in, drivers/nutdrv_qx.c: nutdrv_qx: add support for some Legrand USB devices

2.1438 2018-08-21 Jim Klimov <jim@jimklimov.com>

- m4/nut_check_libneon.m4: nut_check_libneon.m4 : shell typo fix
- m4/nut_check_libneon.m4: nut_check_libneon.m4 : do not AC_MSG_WARN inside a standard message chain
- m4/nut_check_libneon.m4: nut_check_libneon.m4 : provide fallback defaults when pkg-config fails

2.1439 2018-08-19 Daniele Pezzini <hyouko@gmail.com>

- configure.ac: configure: fix messages of pkg-config checks The PKG_*() macros we use there already print messages, therefore we can't use AC_MSG_CHECKING() before calling them, and AC_MSG_RESULT() after, or we will get something like: checking for autoconf macro support of pkg-config... checking for pkg-config... /usr/bin/pkg-config ^\ AC_MSG_CHECKING() ^\ PKG_*() macro output checking pkg-config is at least version 0.9.0... yes ^ PKG_*() macro output — continuation ok ^\ AC_MSG_RESULT() checking for autoconf macro support of pkg-config module checker... checking for dummy_PKG_CONFIG... yes ^\ AC_MSG_CHECKING() ^\ PKG_*() macro output ok ^\ AC_MSG_RESULT() ...which is not exactly desirable. So, move the messages to AC_MSG_NOTICE(), with the result being explicitly printed only on failure (AC_MSG_WARN() call).
- docs/man/Makefile.am: docs/man: fix man8 target for linux/i2c
- docs/man/Makefile.am, drivers/Makefile.am: nutdrv_qx: don't duplicate make targets Since nutdrv_qx is both a serial and a USB driver, up until now, its executable and manpages appeared in two lists: serial and USB drivers, in order to be built in both cases, when ./configure'd for only one of them... but, by doing this, when ./configure'd for both, we ended up with dupes, which could potentially cause problems, e.g. when installing them (and this just happened). For the executable, luckily, libtool calls install one file at a time, so this was not, and it still should not be, a problem. For the manpages, we were previously saved by automake, which splits the list of files to be installed in different calls if they are too many (see automake's am__install_max var, currently set to 40), so the two nutdrv_qx entries ended up in different calls to install, but the 8b75b03 commit, by adding

more manpages before nutdrv_qx's ones, pushed also the first occurrence to the second call to install, which already contained the other one, causing an error. While other alternative, more flexible, but also less portable, ways for solving this exist (e.g. using GNU make's $(sort) on the generated lists), at least for now, prefer a more portable solution, adding new intermediate lists for serial/USB drivers and using simple automake conditionals. Close https://github.com/networkupstools/nut/issues/594

2.1440 2018-08-14 Jim Klimov <jimklimov@gmail.com>

- .gitignore, Makefile.am, README, common/Makefile.am, configure.ac, docs/FAQ.txt, docs/config-notes.txt, docs/developers.txt, docs/features.txt, docs/man/Makefile.am, docs/man/index.txt, docs/man/nut-driver-enumerator.txt, docs/man/upsdrvctl.txt, docs/man/upsdrvsvcctl.txt, docs/net-protocol.txt, docs/nut.dict, include/Makefile.am, scripts/Aix/.gitignore, scripts/Aix/nut.init, scripts/Aix/nut.init.in, scripts/Makefile.am, scripts/Solaris/.gitignore, scripts/Solaris/Makefile.am, scripts/Solaris/README, scripts/Solaris/makelocal.sh, scripts/Solaris/nut-driver-enumerator.xml.in, scripts/Solaris/nut-driver.xml.in, scripts/Solaris/nut-monitor.xml.in, scripts/Solaris/nut-server.xml.in, scripts/Solaris/nut.in, scripts/Solaris/nut.xml.in, scripts/Solaris/pkginfo.in, scripts/Solaris/postinstall.in, scripts/Solaris/postremove, scripts/Solaris/postremove.in, scripts/Solaris/preinstall, scripts/Solaris/preinstall.in, scripts/Solaris/prepackage.py, scripts/Solaris/{preproto.pl ⇒ preproto.pl.in}, scripts/Solaris/preremove.in, scripts/Solaris/svc-nut-monitor.in, scripts/Solaris/svc-nut-server.in, scripts/systemd/.gitignore, scripts/systemd/Makefile.am, scripts/systemd/README, scripts/systemd/nut-driver-enumerator.path.in, scripts/systemd/nut-driver-enumerator.service.in, scripts/systemd/nut-driver.service.in, scripts/systemd/nut-driver.target, scripts/systemd/nut-driver@.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in, scripts/systemd/nut.target, scripts/systemd/nutshutdown.in, scripts/upsdrvsvcctl/.gitignore, scripts/upsdrvsvcctl/Makefile.am, scripts/upsdrvsvcctl/README, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, scripts/upsdrvsvcctl/upsdrvsvcctl.in: Use target for drivers in Linux systemd (updated) and SMF instances for drivers in new Solaris-like systems (and bring AIX initscript into better shape) (#330) * Use target for drivers in systemd This allows much better granularity and better monitoring in case of multiple UPSes.

- nut-driver.target improvements suggested by @peterhoeg in PR #229

- systemd units dependencies revised and commented * nut-driver-enumerator.sh initial commit * nut-driver@.service.in : integrate comments from @peterhoeg about extending unit requirements * WIP : initial integration of nut-driver-enumerator.sh/service into makefiles etc. * nut-driver-enumerator.sh renamed into nut-driver-enumerator.sh.in as it has processable templates in code * nut-driver-enumerator.sh.in : add its own config-file support to set the variables used inside (if not via command-line env) * nut-driver-enumerator.sh.in : fix up the copyright header * Subject: Fix systemd service file for Debian From: Laurent Bigonville <bigon@debian.org> Forwarded: not-needed * nut-driver-enumerator.sh.in : complete the Solaris SMF support in the helper script * EXTRA_DIST the scripts/systemd/nut-driver.target (non-templated) file * nut-driver-enumerator.sh.in : updated comments (esp. about usage and exit-codes) and runtime messages * nut-driver-enumerator.service.in : define an actual service payload

- nut-driver-enumerator.sh.in : refactor the logic of MAIN PROGRAM into smaller routines for readability * nut-driver-enumerator.sh.in : introduce routines to help define custom dependencies of particular drivers on other services * nut-driver-enumerator.sh.in : allow custom NUT_CONF_DIR from envvar, to facilitate testing * nut-server.service.in : typo fix in comments * nut-driver-enumerator.sh.in : support the concept of localhost networking dependencies, and define vars with lists of services to depend on * nut-driver-enumerator.sh.in : use proper FMRI:instance separator for SMF * nut-driver-enumerator.sh.in : added variables for dependency type on third-party service units * nut-driver-enumerator.sh.in : change upsconf_getDriverMedia() output from tab-separated to multiline; add upsconf_getMedia() and upsconf_debug() and upslist_debug() * nut-driver-enumerator.sh.in : refactor with upsconf_getValue() and cached pre-cooked ups.conf data; infrastructure to configure service dependencies when adding the service instance * Remove hardcoded dependencies on udev and network from provided systemd units; add comments about extending via drop-in files and that nut-driver-enumerator will do this for nut-drivers * nutshutdown.in : mark executable * nut-driver-enumerator.sh.in : complete the systemd drop-in support for custom dependencies for a driver * nut-driver-enumerator.sh.in : complete the SMF drop-in support for custom dependencies for a driver * nut-driver-enumerator.sh.in : comment-away upslist_debug() in default runs * WIP Adding Solaris SMF manifests for NUT * Sanitize Solaris SVR4 packaging rules * Sanitize Solaris packaging scripts some more * Add configure options for Solaris packaging variants * Sanitize Solaris packaging scripts some more - consider DESTDIR for installation root * Turn solaris preproto.pl into a template so it uses proper (configured) user/group strings * Makefile.am : ensure there is a DESTDIR set before packaging * Makefile.am : use $(MAKE) $(AM_MAKEFLAGS) instead of explicit "make" (mostly in packaging recipe) * makelocal.sh : commented and revised * Solaris/Makefile.am : put generated SVR4 package into builddir (not srcdir that may be readonly) to match other OS recipes * Makefile.am : ensure the DESTDIR is used for packaging purposes (when calling sub-makes) * Solaris/pkginfo.in : ARCH is CPU_TYPE, not OS_NAME * GitIgnore built Solaris/NUT*.local.gz product * GitIgnore built systemd files * GitIgnore *install_pkgprotodir * Makefile.am : ensure only the custom DESTDIR is used for packaging purposes * Makefile.am :*

*convert the big packaging "if" into "case"; link steps with "&&"; retain DESTDIR if Solaris packaging fails; ensure the correct custom DESTDIR is absent before packaging (and after Solaris packaging) * Solaris/Makefile.am : Revise recipe-names and comments for Solaris packaging variants * Solaris/Makefile.am and* ***.xml.in : relocate SMF methods and manifests under NUT DATADIR to package compactly * Solaris-SMF : svc-nut.in svc-nut-client.in : use @RUN_AS@*** and @PIDPATH@ vars instead of hardcoding * Solaris/Makefile.am : list helper scripts and installation scripts and data in variables and depend on them in packaging; chmod \+x the scripts after copying over to proto area * GitIgnore config.cache

- Remove Solaris/prepackage.py (unreferenced duplicate of precheck.py) * Solaris/nut.in : sanitize the default init-script
- Solaris/Makefile.am : put init-scripts under NUT share (DATADIR) to package it compactly; copy to OS dirs in postinstall * Makefile.am .gitignore etc. relocate successfully built package files to abs_top_builddir * Change Aix/nut.init to a .in template
- svc-nut.in svc-nut-client.in : consider nut.conf if available * Solaris/Makefile.am and SVR4 scripts : install augeas lenses as part of NUT package (in DATADIR at least) * configure.ac : comment about sysconfdir for NUT * Sanitize Aix/nut.init.in * More standardization of Solaris initscripts and SMF methods; use LD_LIBRARY_PATH to prefer NUT provided libs in case of conflicts (facilitate bundling with third-party packages) * Solaris/Makefile.am : add ability to "make check" something here, e.g. validate manifest XMLs * Solaris SMF XML manifests : fix "dependent" definitions, and add dependencies on required config files * configure.ac : fix a manually crafted "Checking for" into using AC_MSG routines * Solaris SVR4 packaging should now take care of SMF service registration/teardown * Solaris preremove.in pop up - define the vars * Solaris scripts : use lower-cased @datadir@ in templates processed by configure * Solaris/preremove.in : fix FMRI pattern when removing package * Solaris/postinstall.in : fix SMF manifest dir * Solaris/postremove.in : fix verbose RM; wipe the /var/run/nut dir too * Solaris/preremove.in : fix commands when removing package * Solaris/postinstall.in : enable SMF services if configs are already available (esp. create nut-driver instances) * Solaris/preremove.in : fix commands when removing package * Solaris/postinstall.in : enable SMF services if configs are already available (esp. create nut-driver instances) - verbosity * Solaris/nut-driver-enumerator.xml.in : use a unique dependency name (avoid conflict in nut-driver instances chain of deps) * systemd manifests after generation * systemd/README : add recent authors
- Define a NUT_DATADIR and NUT_LIBEXECDIR with expanded path values to use in service manifests * Solaris : packaged service addition/removal more verbose * nut-driver-enumerator.xml.in nut-driver.xml.in : do not block startup of nut server * nut.xml.in : do not block startup of nut server due to failed nut-driver-enumerator * nut-driver-enumerator.sh.in : improve portability by using TAB char as is (not regex \t which gets misinterpreted by some tools) * nut-driver-enumerator.sh.in : comment the caveats * nut-driver-enumerator.sh.in : apcsmart is serial only * nut-driver-enumerator.sh.in : By default, update wrapping of devices into services... but keep the door open to other uses of the script * nut-driver-enumerator.sh.in : refactor a bit and add externally callable actions * Introduce upsdrvsvcctl with semantics similar to upsdrvctl, but managing stop/start of SMF or systemd unit instances * nut-driver-enumerator.sh.in : consider possible difference of device and service instance names * nut-driver-enumerator.sh.in : refactor md5 * nut-driver-enumerator.xml.in : add REFRESH action and do not die on RESTART * Mention nut-driver-enumerator and upsdrvsvcctl in (systemd/\|Solaris/)README * upsdrvsvcctl.in : updated comments * upsdrvsvcctl.in : added a resync option * Rename Solaris SMF services to match systemd patterns and ease life for sysadmins * Add systemd nut.target to manage the bundle of NUT services * config-notes.txt : document the systemd and SMF support in NUT * nut.dict : update spellchecker * Solaris/Makefile.am : support copying where attrs can not be preserved * Solaris postinstall : report if services were not instantly enabled due to missing config files * upsdrvsvcctl.in : reformat prettily * nut-driver-enumerator.sh.in : wrap usage() * nut-driver-enumerator.sh.in : added --list-services-for-devices * nut-driver@.service.in : comment about aligning timeouts with ups.conf maxstartdelay * nut.xml.in : Revise comments * nut-driver-enumerator.sh.in : when amending service unit instance config for systemd, update the Description to state the NUT device section name * nut-driver-enumerator.sh.in : support common NUT_CONFPATH envvar * Add upsdrvsvcctl.txt man-page and references to upsdrvsvcctl in other docs * upsdrvsvcctl.txt manpage : refer to service management system logs * upsdrvsvcctl : support "list upsname" CLI action to help troubleshooting * upsdrvsvcctl : add handling for "shutdown" command * Docs about upsdrvsvcctl - clarify that it may not be preinstalled with non-SMF/non-systemd OS packages * Pass spellcheck for upsdrvsvcctl doc updates * Solaris packaging of nut-driver-enumerator.sh : deliver into libexecdir same as in Linux * Move nut-driver-enumerator.sh.in and upsdrvsvcctl.in into scripts/upsdrvsvcctl to share on par between Linux and Solaris (for starters) * Use @NUT_LIBEXECDIR@ for nut-driver-enumerator.sh * Introduce nut-driver-enumerator.path.in for systemd * nut-driver-enumerator.service.in : be part of nut.target, not common multi-user * Systemd services : be PartOf=nut.target to propagate service stops * postinstall.in : use NUT_DATADIR * nut-monitor.xml.in : depend on nut-server (if locally running) * nut.xml.in : fix path (use pre-eval-ed version)
- nut-driver-enumerator.sh.in : add a way to print out just an instance suffix name * nut-driver-enumerator.sh.in : when printing full instance name, do not add stuff if the argument is already a full name * nut-driver-enumerator.sh.in : implement --get-device-for-service * nut-driver (systemd/SMF) : use "nut-driver-enumerator.sh --get-device-for-service" for current service instance name * nut.xml.in : this service is transient * upsdrvsvcctl.in : fix parameter passing * upsdrvsvcctl.in : "clear" the SMF

service state when stopping/starting, just in case it was failed * nut-driver-enumerator.sh.in : restart upsd IFF the set of known-device mappings was changed * Revise and relax some dependencies for Solaris SMF services * nut-driver-enumerator.sh.in : info messages go to stderr; reply for request only goes to stdout * nut-driver-enumerator.sh.in : complete the upslist_equals() method * nut.xml.in : never fail on stop (if component services did not stop, it is their problem) * Solaris preremove.in SMF : clear sevices before stopping them, just in case * upsdrvsvcctl.in : post-process clearing of SMF service instances if any have failed * nut.xml.in : never fail on stop (if component services did not stop, it is their problem) * Solaris preremove.in SMF : remove nut before services it depends on * main.c upsdrvctl.c : make debug messages a bit more useful * Solaris preremove.in SMF : do not block stopping NUT driver services, but follow up with upsdrv(svc)ctl stop of everything * Solaris preremove.in SMF : sleep after stopping drivers before removing their services * Solaris preremove.in SMF : force-remove services of drivers * nut-driver.xml.in : rename a dependency to avoid conflicts * Solaris nut.xml.in : add a refresh action handler * Solaris postinstall.in SMF : first use nut-driver-enumerator.sh.in to just register the mappings, no autostarts * Solaris preremove.in SMF : stop drivers with common method (and use NUT_SBINDIR) before going one by one * Solaris postinstall.in SMF : start the drivers via upsdrvsvcctl after registering (so the mapping is stable) * Solaris postinstall.in preremove.in : NUT_SBINDIR ⇒ SBINDIR * Add manpage for nut-driver-enumerator[8] * Handle EXTRA_DIST of scripts/upsdrvsvcctl/ with their own Makefile * nut-driver-enumerator.txt : change to be more like other page sources * Spellcheck nut-driver-enumerator.txt * Add scripts/upsdrvsvcctl/README * Update gitignores * List new manpages upsdrvsvcctl nut-driver-enumerator in index * Add upsdrvsvcctl do scripts/Makefile.am SUBDIRS * upsdrvsvcctl.in nut-driver-enumerator.sh.in : Add a way to show configs per device

- nut-driver-enumerator.sh.in : fix upsconf_getValue() to return success if key was found, or report an error if not * nut-driver-enumerator.sh.in : expose upsconf_getValue() as --show-device-config-value * nut-driver-enumerator.sh.in : NOTE on top about the choice of simplified shell * nut-driver-enumerator.sh.in : in upsconf_getSection() stop after printing out the section contents * nut-driver-enumerator.sh.in : refactor upsconf_getValue() to use upsconf_getSection() * nut-driver-enumerator.sh.in : update comment in header * nut-driver-enumerator.service.in : do not fail the systemd unit, it cannot restart * Fix references for configure.in to point to configure.ac nowadays * nut-driver-enumerator.sh.in : use fully-pathed SMF svccfg in all parts of code consistently * nut-driver-enumerator.sh.in : comment about not-detecting reconfigurations of existing sections currently
- docs/man/Makefile.am, scripts/subdriver/gen-snmp-subdriver.sh: Upstream smaller fixes from 42ity NUT (#587) * gen-snmp-subdriver.sh : replace multiline "echo" with questional tabbing by a single-string "printf" * docs/man/Makefile.am : fix merge error that broke manpage packaging

2.1441 2018-08-14 Jim Klimov <jim@jimklimov.com>

- m4/nut_check_libneon.m4: nut_check_libneon.m4 : comment about detecting without pkgconfig as a fallback
- m4/nut_check_libavahi.m4: nut_check_libavahi.m4 : typo fix

2.1442 2018-08-07 Jim Klimov <jim@jimklimov.com>

- drivers/powerware-mib.c: powerware-mib.c : fix fallout from "snmp-ups: support newer Genepi management cards" (unused variable warning)

2.1443 2018-08-07 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/powerware-mib.c: snmp-ups: support newer Genepi management cards * duplicate some OIDs, with refinement to point at the first index (i.e ".0" or ".1.0") since otherwise the agent doesn't respond to queries. This could be fixed at the snmp-ups level later
- fixed "ups.type" (power topology of the UPS) which was pointing at the output.source or ups.mode

2.1444 2018-08-02 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-pdu-marlin-mib.c: snmp-ups: Eaton feed color is semi static

2.1445 2018-07-31 Daniele Pezzini <hyouko@gmail.com>

- tools/nut-scanner/nut-scanner.c: nutscanner: get debug level early (for nutscan_init()) and restore options (#541) * Revert "Problem: nutscan_init() called before debug is enabled" This reverts commit f613d45f78c96c290a1d63d4a2c3f28385d90d42. When parsing the command line (or showing help), many options rely on a nutscan_avail_* var already initialized by nutscan_init() — moving that call after the parsing of opts renders those options unavailable. * nutscanner: parse debug level opts separately before anything else In order to have early the value of the desired debug level (needed to correctly debug nutscan_init()), split the parsing of command line options into two loops: - the first one, before the call to nutscan_init(), will only care about debug level, - the second one, after the call to nutscan_init(), will consider the remaining (and possibly depending on a nutscan_avail_* var already initialized by nutscan_init()) arguments (and moan in case of errors). Closes https://github.com/-networkupstools/nut/issues/500

2.1446 2018-07-28 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: support USB devices that don't close their replies with a CR Since some devices, when communicating via USB, don't close their replies to our commands/queries with the expected (and mandated by the specs) CR, rendering the driver almost useless as protocols get one less character than they expect, update the various USB subdrivers (leaving out the ones that rely on a CR to stop reading from the device) to add the missing terminating CR in such cases (as long as we get anything usable). This is a bit of a cheat, but, at least for now, it will do — not to mention the fact that it is way less invasive than touching all the places of the driver that expect a closing CR and all the qx2nut tables of the various protocols. Close https://github.com/networkupstools/nut/issues/441

2.1447 2018-07-25 mbastiaan <35669404+mbastiaan@users.noreply.github.com>

- drivers/tripplite_usb.c: input_voltage_nominal, added case 6 SMX500RT1U 230V requires case 6.
- drivers/tripplite_usb.c: Update tripplite_usb.c Incremented driver version for pull request #584
- data/driver.list.in: Update driver.list.in Added new line for SMX500RT1U with product ID 0001. Updated line for other product IDs

2.1448 2018-07-24 mbastiaan <35669404+mbastiaan@users.noreply.github.com>

- drivers/tripplite_usb.c: Update tripplite_usb.c Added battery.charge status for 3005 protocol. Tested on SMX500RT1U, charge level seems ok-ish considering how it's calculated and the voltage jumping up and down.

2.1449 2018-06-26 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/nut-names.txt: Complete missing variables input.feed.{desc,color}, input.realpower.nominal and outlet.group.n.input. Also add a note on outlet.group actions NOTE: Cherry-picked from FTY branch commit e5505f63eab which had a conflicting definition of input.realpower.nominal dropped here (and in original FTY branch by later commits).
- docs/nut-names.txt, drivers/eaton-pdu-marlin-mib.c: snmp-ups: Eaton ePDU input.power.nominal is realpower Fix data name, since the published value is in Watts, so realpower, not power

2.1450 2018-06-17 Links <help.markus+gitk@gmail.com>

- drivers/mge-hid.c: get PowerWalker VFI 2000 TGS working, read values correctly

2.1451 2018-05-24 Charles Lepple <clepple+nut@gmail.com>

- drivers/tripplite-hid.c: usbhid-ups: Add support for Delta/Minuteman UPS https://github.com/networkupstools/nut/issues/555

2.1452 2018-05-22 Jim Klimov <jim@jimklimov.com>

- .travis.yml, ci_build.sh: Change the Travis test-case for NO_PKG_CONFIG==true

2.1453 2018-05-18 Arnaud Quette <ArnaudQuette@Eaton.com>

- scripts/subdriver/gen-snmp-subdriver.sh: Improve the SNMP subdriver generation script Provide a 3rd mode to allow an offline creation for a complete MIB walk. In this mode, we get data from 1 file (numeric snmpwalk dump of the whole SNMP tree). The sysOID is extracted from the dump, and only the pointed subtree is used. A MIB file MUST be provided, and is used to produce the string SNMP walk. Also reformatted the whole script using tab only, and reconciled with the DMF version.

2.1454 2018-05-15 Bernhard M. Wiedemann <githubbmw@lsmod.de>

- tools/nut-snmpinfo.py, tools/nut-usbinfo.pl: Sort input file list (#528) so that nut builds in a reproducible way in spite of indeterministic filesystem readdir order and http://bugs.python.org/issue30461 See https://reproducible-builds.org/ for why this is good.

2.1455 2018-05-04 Matthijs ten Berge <m.tenberge@awl.nl>

- docs/man/nutdrv_siemens_sitop.txt: Spelling fix
- drivers/nutdrv_siemens_sitop.c: Remove %-sign from variable values
- drivers/nutdrv_siemens_sitop.c: Fix line endings
- docs/man/nutdrv_siemens_sitop.txt: Better explanation of serial port polling

2.1456 2018-05-02 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: in *sgs* USB subdriver, use #define'd value for USB timeouts

2.1457 2018-04-11 Matthijs ten Berge <m.tenberge@awl.nl>

- data/driver.list.in, docs/man/Makefile.am, docs/man/{siemens-sitop.txt ⇒ nutdrv_siemens_sitop.txt}, drivers/Makefile.am, drivers/{si sitop.c ⇒ nutdrv_siemens_sitop.c}: Rename driver siemens-sitop to nutdrv_siemens_sitop As requested in https://github.com/-networkupstools/nut/pull/545#pullrequestreview-106712942

2.1458 2018-03-26 Matthijs ten Berge <m.tenberge@awl.nl>

- drivers/siemens-sitop.c: Various code improvements after review - The number of delimiter characters is no longer hard-coded, but will be detected and thrown away at runtime - Discard any remains in the RX buffer after communication errors - collapse repeating code - upsdrv_shutdown now uses instcmd (removes duplicate code) - obsolete ups.* variables removed - poll_interval not hard-coded, but give a warning when a large value is encountered - option parsing improved
- docs/man/siemens-sitop.txt: Improve manpage layout

2.1459 2018-03-23 Matthijs ten Berge <m.tenberge@awl.nl>

- docs/man/siemens-sitop.txt, docs/nut.dict: Spellcheck fixes
- data/driver.list.in, docs/man/Makefile.am, docs/man/siemens-sitop.txt, drivers/Makefile.am, drivers/siemens-sitop.c: Initial commit of siemens-sitop: driver for Siemens SITOP UPS500-series UPSes

2.1460 2018-03-17 Steve Gilbert <stevegilbert23@gmail.com>

- drivers/libhid.c: In HIDGetEvents.c call to get_interrupt, increase timeout from 250 to 750 ms to allow more time for UPS response (cherry picked from commit 5cea18c04a79cd873347efeffb6bb869edd8643e --@clepple) Closes: https://github.com/-networkupstools/nut/pull/543 Closes: https://github.com/networkupstools/nut/issues/542

2.1461 2018-03-15 Daniele Pezzini <hyouko@gmail.com>

- tools/nut-scanner/scan_usb.c: nutscanner: in scan_usb.c, nullify free()*d pointers that are later reused We assign 'device_name*, *serialnumber* and *vendor_name* only if the analyzed device provides that data and, since we use these pointers also to check if those items are available so that we can store and free() them, after free()'ing them we must make them NULL, or the next device, if it does not provide that data, will inherit the old (now free()'d) pointer and will attempt to access it and re-free() it.
- drivers/libusb1.c: libusb1: don't use the same var to iterate both devices and interface descriptor From our old libusb.c, libusb1.c inherited a for loop that iterates over the interface descriptor in order to try and find the HID descriptor among its *extra* bytes. Unluckily, it uses the same var (i) that's now used, at the same time, for the iteration through the device list, in which it happens to be nested. Since this obviously spells disaster, make these vars unique (and add a bit of debugging info).

2.1462 2018-03-14 Daniele Pezzini <hyouko@gmail.com>

- data/cmdvartab, docs/nut-names.txt: libusb: update example of driver.version.usb and add it to cmdvartab
- data/cmdvartab, docs/nut-names.txt: libusb: update example of driver.version.usb and add it to cmdvartab
- drivers/libusb1.c: libusb1: publish actual libusb version
- tools/nut-scanner/scan_usb.c: libusb: in nutscanner, free busname also on nutscan_new_device() errors or when done with it
- drivers/bcmxcp_usb.c, drivers/libusb0.c, drivers/libusb1.c, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, tools/nut-scanner/scan_ libusb: improve handling of errors when allocating new memory - libusb 0.1 (when not shared with libusb 1.0): prefer our xstrdup() function — on errors, it'll automatically call fatal*(), - libusb 1.0 (and nutscanner): don't use our x{malloc,strdup,...}() functions, so that we can free the list of devices (and close the device and call libusb_exit() in nutscanner) before exiting.
- drivers/libusb1.c: libusb1: publish the interface we are actually using
- drivers/richcomm_usb.c: richcomm_usb: use the local USB device handle in usb_device_open() Although at that point of usb_device_open(), both the local (handle) and the global (udev) device handles point to the same thing, prefer the local one to make things clearer.
- drivers/bcmxcp_usb.c, drivers/libusb0.c, drivers/libusb1.c, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c, tools/nut-scanner/scan_ libusb: clean up after ourselves libusb 1.0: - a device list allocated with libusb_get_device_list() must be deallocated with a call to libusb_free_device_list(), - ditto for the config descriptor. libusb 0.1 and 1.0: - release (commented-out) interfaces when done with them, - remove unnecessary goto's after calls to fatal*() functions, - nutscanner: also close the USB device handle (and libusb_exit() for libusb 1.0) on errors.

2.1463 2018-03-13 Georg Altmann <george@george-net.de>

- docs/nut.dict: doc: update nut.dict
- INSTALL.nut: doc: Update installation instructions for FreeBSD Details usb device permissions. Also pkg and new port config style.

2.1464 2018-03-13 Daniele Pezzini <hyouko@gmail.com>

- drivers/bcmxcp_usb.c, drivers/tripplite_usb.c: usb drivers: free USBDevice_t's dynamically allocated items when cleaning

2.1465 2018-03-10 Patrik Dufresne <ikus060@kase>

- drivers/powerp-txt.c: Fix tabs
- drivers/powerp-txt.c: Change status line parsing for CyberPower OR1500LCDRTXL2U Add a new way to parse the status line in powerpanel text driver to support CyberPower model OR1500LCDRTXL2U with serial cable. This model doesn't provide temperature, but does provide runtime.

2.1466 2018-03-09 Jim Klimov <jim@jimklimov.com>

- drivers/main.c, drivers/upsdrvctl.c: main.c upsdrvctl.c : make debug messages a bit more useful

2.1467 2018-03-05 Daniele Pezzini <hyouko@gmail.com>

- drivers/richcomm_usb.c: richcomm_usb: don't libusb_exit() when closing a previously opened device
- drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: don't libusb_exit() when closing a previously opened device
- drivers/libusb1.c: libusb1: don't libusb_exit() when closing a previously opened device
- drivers/riello_usb.c: riello_usb: use libusb_bulk_transfer() for bulk operations
- drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: add missing *inline* keyword

2.1468 2018-03-04 Charles Lepple <clepple+nut@gmail.com>

- drivers/usbhid-ups.c: usbhid-ups: fix instcmd logging before fallback check The hidups_item pointer needs to be checked for NULL before dereferencing.

2.1469 2018-02-28 Jim Klimov <jimklimov@gmail.com>

- drivers/snmp-ups.c: Fix the recently added update for Avocent support (#532) * Problem: snmp-ups segfaults Solution: base_snmp_template_index() prevented from processing empty argument
- Problem: index has to be counted for any device not just for daisychain Solution: counted for both * Problem: debug info needs improvement Solution: added * drivers/snmp-ups.c : bump the version for public-release driver fix * snmp-ups.c : Fix indentation for recent fixes

2.1470 2018-02-28 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/nut.dict: Add Avocent to the spell check list

2.1471 2018-02-27 Arnaud Quette <ArnaudQuette@Eaton.com>

- NEWS: Update NEWS for Emerson Avocent PM3000 PDU

2.1472 2018-02-20 Bernhard M. Wiedemann <bwiedemann@suse.de>

- tools/nut-usbinfo.pl: Cleanup usbinfo code to reduce code duplication and solve an associated FIXME

2.1473 2018-02-16 Arnaud Quette <ArnaudQuette@Eaton.com>

- data/driver.list.in, drivers/Makefile.am, drivers/emerson-avocent-pdu-mib.c, drivers/emerson-avocent-pdu-mib.h, drivers/snmp-ups.c: snmp-ups: Add support for Emerson Avocent PM3000 PDU
- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: various improvements This prepares the addition of newer devices

2.1474 2018-01-11 Daniele Pezzini <hyouko@gmail.com>

- m4/nut_check_libusb.m4: autoconf: support libusb 0.1 implementations identified as *libusb-0.1* Make NUT_CHECK_LIBUSB macro aware of those libusb 0.1 implementations named in their pkg-config files as *libusb-0.1*, instead of just *libusb* (e.g. on FreeBSD).

2.1475 2018-01-10 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: update USB errors handling to support both libusb 0.1 and 1.0

2.1476 2018-01-03 Jim Klimov <jim@jimklimov.com>

- configure.ac, scripts/augeas/Makefile.am: Define an `auglenstestsdir` to install the augeas `test_nut.aug` file

2.1477 2018-01-02 Charles Lepple <clepple+nut@gmail.com>

- configure.ac: Fix AC_MSG_*() quoting The autoconf quote characters are `[` and `]` - no need for `"`.

2.1478 2018-01-01 Charles Lepple <clepple+nut@gmail.com>

- m4/nut_check_libusb.m4: Add autoconf check for libusb_strerror() Closes: https://github.com/networkupstools/nut/issues/509
- docs/man/nutdrv_qx.txt, docs/man/snmp-ups.txt, docs/man/ups.conf.txt, docs/man/usbhid-ups.txt: doc: Clean up description of `pollfreq` and USB interrupts Closes: https://github.com/networkupstools/nut/issues/476

2.1479 2017-12-31 Jim Klimov <jim@jimklimov.com>

- configure.ac: configure.ac : Avoid rebuilding existing man=dist build products due to their timestamp dependencies
- configure.ac: configure.ac : add support for --with-doc=man=dist-auto to prefer pre-disted docs if available

2.1480 2017-12-05 Jim Klimov <jim@jimklimov.com>

- .travis.yml: .travis.yml : add a test-case for builds in absence of pkg-config in the OS

2.1481 2017-11-29 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/configure.txt, docs/man/nutupsdrv.txt, docs/man/upsd.txt: doc: missing documentation for NUT_* env vars Complete documentation for upsd and drivers related to the environment variables NUT_CONFPATH, NUT_STATEPATH and NUT_ALTPIDPA

2.1482 2017-11-28 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/man/usbhid-ups.txt: doc: minor formatting in usbhid-ups man page

2.1483 2017-11-27 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/nut-scanner.c: Problem: nutscan_init() called before debug is enabled Solution: Move the call to this stateless function to the point after we parse arguments and just before we'd start the actual scans. Later this can be extended to also consider which scans were requested and so which libs to load. Thanks to @clepple for research in https://github.com/-networkupstools/nut/issues/500

2.1484 2017-11-27 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/man/nutupsdrv.txt: doc: reword nutupsdrv man page Reference: https://github.com/networkupstools/nut/issues/476

2.1485 2017-11-26 Charles Lepple <clepple+nut@gmail.com>

- docs/man/usbhid-ups.txt: doc: reword other parts of usbhid-ups man page
- docs/man/usbhid-ups.txt: doc: mention CPS delay quirks in usbhid-ups man page Closes: https://github.com/networkupstools/-nut/issues/432
- tools/nut-scanner/scan_usb.c: nut-scanner: update usb_get_string_simple() for libusb-1.0 API Closes: https://github.com/-networkupstools/nut/issues/499
- drivers/libusb1.c: libusb1: const-ify the USB interface number Remove a few "magic numbers" from USB/HID-related calls.
- drivers/libusb1.c: libusb1: LBYL approach to libusb_set_auto_detach_kernel_driver() Switch to look-before-you-leap (LBYL) approach to calling libusb_set_auto_detach_kernel_driver(), since FreeBSD (11.0 and 11.1; probably others) requires root privileges to attempt the kernel driver detach (even if no detach operation is needed).
- m4/nut_check_libusb.m4: libusb1: check for libusb_kernel_driver_active()

2.1486 2017-11-21 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Change Riello IDG/IPG support level to 4 The IDG and IPG models were not included in the protocol documentation provided to the NUT project. Some values are also returned as 0xFF/0xFFF/0xFFFF - see the HCL for details. Source: http://lists.alioth.debian.org/pipermail/nut-upsdev/2017-November/007357.html

2.1487 2017-11-17 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-ats16-nmc-mib.c, drivers/eaton-pdu-marlin-mib.c, drivers/mge-mib.c, drivers/mge-xml.c, drivers/powerware-mib.c: Modify "open" to "opened" for dry contacts status While "open" is the best adjective for the opposite of "closed", and thus suitable for GPI status, this may lead to confusion with the GPO actions "open|close" Vs the GPI status "opened\|closed". These last are also not inapropriate, since they can refer to the fact that the GPI state has change due to some external action or event
- NEWS: Update NEWS for next release
- NEWS: Update NEWS for next release
- docs/man/nutupsdrv.txt, docs/man/usbhid-ups.txt: man pages: clarification on polling parameters Explain difference between pollfreq and pollinterval in usbhid-ups, and highlight the pollinterval parameter use from ups.conf in nutupsdrv Closes: https://github.com/networkupstools/nut/issues/476
- data/driver.list.in: HCL: Eaton 9PX supported by mge-shut, usbhid-ups and netxml-ups
- data/driver.list.in: HCL: Eaton ATS 30 supported by snmp-ups
- drivers/Makefile.am, drivers/mge-hid.c: mge-shut/usbhid-ups: compute Output load for Eaton UPS When HID data UPS.PowerConver is not present, compute a realpower approximation using available data. This is needed for Eaton 5E and some other units Closes: https://github.com/networkupstools/nut/issues/484

2.1488 2017-11-03 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-ats16-nm2-mib.c, drivers/eaton-ats16-nmc-mib.c, drivers/mge-mib.c, drivers/mge-xml.c, drivers/powerware-mib.c: Add support for dry contacts to Eaton ATS16 and UPS Add support for the 2 GPI accessible through EMP001 environmental sensor, connected to a UPS or ATS16. The same is already available for Eaton ePDU. This affect the snmp-ups driver (eaton_ats16 and pw/pxgx_ups MIBs), and the netxml-ups driver

2.1489 2017-10-31 barraudl <lilianbarraud@eaton.com>

- tools/nut-scanner/Makefile.am, tools/nut-scanner/README, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-init.h: Revise use of semaphores in nut-scanner vs libnutscanner Original commit in 42ITy fork in 2017: "Fix the Debian package generation" Adapted into NUT upstream code, considering 4 years of codebase evolution, in 2021:

2.1490 2017-10-30 Michal Marek <MichalMarek1@eaton.com>

- Makefile.am, configure.ac, scripts/systemd/Makefile.am: configure.ac: Fix systemd shutdown directory detection The which is not true on many biarch Linux distros with /lib64. Instead of guessing, use pkg-config to find the path and provide a --with-systemdshutdowndir option so that make distcheck can override it. Also, rename the internal varable to systemdshutdowndir to rhyme with the respective systemd.pc variable.

2.1491 2017-10-30 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c/dmf: add outlet timers Add support for shutdown and start timers

2.1492 2017-10-23 barraudl <lilianbarraud@eaton.com>

- configure.ac, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: Add thread limitation to avoid memory error Original development in 42ITy fork in 2017: UPDATE: Merged with NUT upstream, considering evolution of codebases over 4 years since original commit, revised 2021:

2.1493 2017-10-20 Jim Klimov <jimklimov@gmail.com>

- configure.ac: Problem: configure fails on system without pkg-config Solution: detect presence and usability of pkg-config program and autotools macros (they end up as unexpanded tokens if pkg-config is not installed), and use this knowledge to proceed with search for libcppunit - or not. When the test is optional, we should not kill the build if we can not make it due to missing tools.

2.1494 2017-10-17 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-pdu-marlin-mib.c: snmp-ups: fix Eaton ePDU group phase handling Remove the not needed SU_FLAG_UNIQUE and the erroneous value lookup structure index
- drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-helpers.h, drivers/eaton-pdu-marlin-mib.c: snmp-ups: simplify Eaton ePDU group phase handling

2.1495 2017-10-13 Jim Klimov <jim@jimklimov.com>

- drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c : updated comments about input/feed relationship, and daisychain implications
- drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c : fix OID and raise questions on input.power.nominal

2.1496 2017-10-13 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-pdu-marlin-mib.c: Problem: Need to fix published feed variables Solution: Attach 1 feed to the current input

2.1497 2017-10-11 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: snmp-ups.c : publish device.count==1 too
- drivers/eaton-pdu-marlin-helpers.c: eaton-pdu-marlin-helpers.c : in device_count helper do not assume a trailing comma (as last char) as an extra device
- drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c : preferred templated outlet.%i.name goes last in MIB
- drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-helpers.h: eaton-pdu-marlin-* : add support for extended fun/nuf l2s/s2l conversions
- drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c : Revised added OIDs with a single-group ePDU Also update line-breaks for readability and 80-col standard
- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups.[ch] : introduce SU_FLAG_SEMI_STATIC
- drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c : line-breaks for readability and 80-col standard - pass 2
- drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c : line-breaks for readability and 80-col standard

2.1498 2017-10-09 Jim Klimov <jim@jimklimov.com>

- drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-helpers.h, drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c / drivers/eaton-pdu-marlin-helpers.[ch] : Implement conversion func for "device.count" which returns a comma-separated list
- drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-helpers.h, drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c / drivers/eaton-pdu-marlin-helpers.[ch] : Implement conversion func for "outlet.group.%i.phase"
- docs/nut-names.txt, drivers/eaton-pdu-marlin-mib.c: eaton-pdu-marlin-mib.c : add basic listing of newly defined OIDs (not a full solution - some mapping functions are needed and revision of MIB data types)

2.1499 2017-10-08 Charles Lepple <clepple+nut@gmail.com>

- NEWS, UPGRADING, docs/nut.dict: Spell-check release notes
- NEWS, UPGRADING: Update NEWS and UPGRADING for next release Current as of master @ b8df06b761, assuming libusb-1.0\+0.1 gets merged
- docs/hid-subdrivers.txt: hid-subdrivers.txt: fix explore command line Also reformat some surrounding text. Closes: https://github.com/networkupstools/nut/issues/436
- docs/hid-subdrivers.txt: hid-subdrivers.txt: clarify Tripp-Lite USB reference Closes: https://github.com/networkupstools/nut/-issues/452
- docs/man/powerpanel.txt: powerpanel: emphasize that this driver is serial-only Apparently, the PowerPanel Plus vendor tool also has USB support.
- docs/man/belkin.txt, docs/man/belkinunv.txt: belkin/belkinunv: add links to man pages for other Belkin drivers
- docs/man/tripplite_usb.txt: tripplite_usb: update man page * Fix link to tripplitesu(8) * Add 3005 protocol * Update protocol variable name
- docs/man/dummy-ups.txt: dummy-ups: last state should be "OB LB" to match text Also corrected a typo.

2.1500 2017-10-04 Daniele Pezzini <hyouko@gmail.com>

- configure.ac, m4/nut_check_libusb.m4: libusb 1.0 port: directly use `--with-usb` to choose the library

2.1501 2017-10-03 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/configure.txt: Remove an extraneous point
- docs/configure.txt: Update configure documentation for libusb Document the possibility to override the auto-detection choice, even though the implementation of this override is not yet currently working
- docs/configure.txt: Update configure documentation for libusb Document the possibility to override the auto-detection choice
- docs/configure.txt: Remove an extraneous point
- docs/configure.txt: Update configure documentation for libusb Document the possibility to override the auto-detection choice, even though the implementation of this override is not yet currently working

2.1502 2017-10-02 Daniele Pezzini <hyouko@gmail.com>

- docs/configure.txt, m4/nut_check_libusb.m4: libusb 1.0 port: support libusb 0.1/-compat even when 1.0 is available Since libusb 1.0 can happily coexist with libusb 0.1/libusb-compat, rework our NUT_CHECK_LIBUSB macro so that, if both are available, libusb 1.0 precedence can be overridden passing to `configure` appropriate values for `--with-usb-includes` and `--with-usb-libs` (i.e. libusb 0.1/libusb-compat-only settings).
- m4/nut_check_libusb.m4: libusb 1.0 port: expand a bit the introductory comment of libusb ac macro
- m4/nut_check_libusb.m4: libusb 1.0 port: use only one AC_DEFINE'd variable for libusb 0.1/-compat Libusb 0.1/libusb-compat can be found with both pkg-config and with its own libusb-config, but, regardless of how we found it, we need to use the same AC_DEFINE'd variable to signal its presence.
- m4/nut_check_libusb.m4: libusb 1.0 port: don't check if libusb is usable, if it's not available Since LIBUSB_VERSION is always non-empty (*none*, if libusb is not found), testing for non-emptiness will always fail and libusb 0.1/libusb-compat checks will always be performed. So, test instead that it is not *none*.

2.1503 2017-09-21 Spiros Ioannou <sivann@inaccess.com>

- drivers/phoenixcontact_modbus.c: phoenixcontact_modbus: fix stale data detection Also mark driver as DRV_BETA Source: http://lists.alioth.debian.org/pipermail/nut-upsdev/2017-September/007331.html

2.1504 2017-09-17 Jim Klimov <jim@jimklimov.com>

- configure.ac, tests/Makefile.am: Improve configure script and recipe for CPPUNIT and C++11 detection * Detect C++11 support and its use for CPPUNIT tests through configure.ac - should address issue #472 * Report after detecting C\+\+11 support, presence of libcppunit, and request for valgrind, whether we'd build the cppunit tests * Update relevant comments in configure.ac
- drivers/libusb0.c, drivers/libusb1.c: libusb0.c / libusb1.c : report more visibly if we encountered errors accessing the device (issue #477)
- drivers/libusb0.c, drivers/libusb1.c: libusb0.c / libusb1.c : sanitize indentation and break up long-lines
- configure.ac: configure.ac : look for CPPUNIT after detecting pkg-config presence, can help vs. issue #478

2.1505 2017-09-06 Jim Klimov <jim@jimklimov.com>

- common/common.c: common.c : dflt_statepath() / altpidpath() : support defined-but-empty envvars to have same effect as not-defined
- common/common.c: common.c : altpidpath() : support priority of an envvar, like statepath does

2.1506 2017-09-05 Jim Klimov <jim@jimklimov.com>

- drivers/main.c: main.c : update usage message with hints about running as unprivileged user

2.1507 2017-08-30 Jim Klimov <jim@jimklimov.com>

- drivers/eaton-pdu-marlin-mib.c: Fix typo in OID, noticed by aquette

2.1508 2017-08-28 Jim Klimov <jimklimov@gmail.com>

- .travis.yml, clients/upsclient.c, drivers/dstate.h, drivers/eaton-pdu-marlin-mib.c, tests/Makefile.am: A few small fixes for cleaner codebase and compilations (#466) * dstate.h : use our timehead.h to have "struct timeval" defined * eaton-marlin : cosmetic whitespace fixes * tests/Makefile.am : cppunit should build with C++11 * .travis.yml : make sure to use "docker" env with its gcc-4.8\+ for support of C\+\+11 in cppunit tests

2.1509 2017-08-24 Jim Klimov <jim@jimklimov.com>

- drivers/eaton-pdu-marlin-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups / eaton-marlin : introduce WITH_SNMP_LKP_FU to separate codebases that support these callbacks from those that currently do not
- drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-helpers.h: eaton-pdu-marlin-helpers.c/h fix
- drivers/eaton-pdu-marlin-helpers.c: eaton-pdu-marlin-helpers.c : update comments for marlin_outlet_group_phase_fun()
- docs/Makefile.am: docs/Makefile.am : fix up access rights for other files in docs too (some PNGs end up inaccessible otherwise)

2.1510 2017-08-23 Jim Klimov <jimklimov@gmail.com>

- docs/snmp-subdrivers.txt, drivers/Makefile.am, drivers/eaton-mib.h, drivers/eaton-pdu-genesis2-mib.c, drivers/eaton-pdu-genesis2-mib.h, drivers/{eaton-mib.c ⇒ eaton-pdu-marlin-mib.c}, drivers/eaton-pdu-marlin-mib.h, drivers/eaton-pdu-pulizzi-mib.c, drivers/eato pdu-pulizzi-mib.h, drivers/eaton-pdu-revelation-mib.c, drivers/eaton-pdu-revelation-mib.h, drivers/snmp-ups.c: Eaton ePDU SNMP MIB file split in four (#465) * snmp-subdrivers.txt : reference the multitude of eaton subdrivers * eaton-mib.h renamed into separate constituent headers * eaton-mib.c renamed into separate constituent sources, earlier history retained in eaton-pdu-genesis2-mib.c * eaton-pdu-revelation-mib.c eaton-pdu-pulizzi-mib.c eaton-pdu-genesis2-mib.c : no use to include dstate.h here * eaton-pdu-marlin-mib.c eaton-pdu-revelation-mib.c : port the renamed structure names from original eaton-mib.c evolution

2.1511 2017-08-23 Jim Klimov <jim@jimklimov.com>

- drivers/Makefile.am, drivers/eaton-pdu-marlin-helpers.c, drivers/eaton-pdu-marlin-helpers.h: Expel the helper function that interacts with dstate from eaton-pdu-marlin-mib.c to eaton-pdu-marlin-helpers.c/.h

2.1512 2017-08-23 Christian Ehrhardt <christian.ehrhardt@canonical.com>

- drivers/Makefile.am: automake: only pass net-snmp cflags to snmp-ups (#464) Other than formerly assumed in the makefile cflags can be more than includes. And some of them need to be in sync in regard to CFLAGS and LDFLAGS - for example usage of -fPIE. This conflicts with a current assumption in the makefile "In any case, CFLAGS are only -I options, so there is no harm". On a Distribution where PIE is enabled by default, but disabled for special cases (like net-snmp) the configure detection gets them as: LIBNETSNMP_CFLAGS = -DNETSNMP_ENABLE_IPV6 -fno-strict-aliasing -g -O2 -fdebug-prefix-map=/build/net-snmp-nlMQSZ/net-snmp-5.7.3\+dfsg=. -specs=/usr/share/dpkg/no-pie-compile.specs -fstack-protector-strong -Wformat -Werror=format-security -DNETSNMP_USE_INLINE -Ulinux -Dlinux=linux -D_REENTRANT -D_GNU_SOURCE -DDEBIAN -fwrapv -fno-strict-aliasing -pipe -I/usr/local/include -D_LARGEFILE_SOURCE -D_FILE_OFFSET -I/usr/lib/x86_64-linux-gnu/perl/5.26/CORE -Wdate-time -D_FORTIFY_SOURCE=2 -I/usr/include LIBNETSNMP_LIBS = -Wl,-Bsymbolic-functions -specs=/usr/share/dpkg/no-pie-link.specs -Wl,-z,relro -Wl,-z,now -L/usr/lib/x86_64-linux-gnu -lnetsnmp -lcrypto -lm Of importance are: -specs=/usr/share/dpkg/no-pie-compile.specs -specs=/usr/share/dpkg/no-pie-link.specs Now when compiling the non-snmp objects incorrectly get the "-specs=/usr/share/dpkg/no-pie-compile.specs" due to the assumption that it is safe to add up all CFLAGS to the global one. LDFLAGS imported that way are only added to snmp. snmp_ups_LDADD = $(LDADD_DRIVERS) $(LIBNETSNMP_LIBS) [...] snmp-ups$(EXEEXT): $(snmp_ups_OBJECTS) $(snmp_ups_DEPENDENC $(EXTRA_snmp_ups_DEPENDENCIES) @rm -f snmp-ups$(EXEEXT) (AM_V_CCLD)(LINK) $(snmp_ups_OBJECTS) $(snmp_ups_LDADD) $(LIBS) That leads to other (all non snmp_ups) objects in drivers failing to build. They get the no-pie-compile.specs (incorrect) spec but not the no-pie-link.specs on the link step. Some other parts like mge_shut and nutdrv_qx already have custom CFLAGS/LDFLAGS that are not added to the global CFLAGS. So despite the commend in the makefile this doesn't seem to be new in general to nut. I don't want to mess too much with your build system for now as I don't know many of its implications. So I chose not the full drop of that global CFLAGS merge, but a minimal patch for now which fixes the issue described. Thereby closes #463

2.1513 2017-08-23 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-names.txt, docs/nut.dict, drivers/eaton-ats16-mib.c: snmp-ups: add support for input.phase.shift (#433) * snmp-ups: add support for input.phase.shift ATS can now publish the electrical dephasing between input sources * Make spellchecker happy about "dephasing"

2.1514 2017-08-16 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/snmp-ups.c: snmp-ups: fix the rounding / truncation of some values The multiplier system of the snmp-ups driver resulted in some values being rounded to the nearby integer value, thus causing a loss of the decimals and the value precision in general. This was mainly visible on the value of currents, but also on some voltages

2.1515 2017-08-10 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/apc-ats-mib.c, drivers/apc-ats-mib.h: Remove exec bits on SNMP subdrivers

2.1516 2017-08-07 Tobby <tobby88@users.noreply.github.com>

- drivers/apcupsd-ups.c: apcupsd-ups: interpret "SHUTTING DOWN" as "LB" Fix issue https://github.com/networkupstools/-nut/issues/460 so NUT with apcupsd-ups driver will correctly initiate a shut down on low battery. Bump version to 0.5 Closes: https://github.com/networkupstools/nut/issues/460 Closes: https://github.com/networkupstools/nut/issues/461

2.1517 2017-08-04 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/nut-names.txt: NUT namespace: fix an extraneous character insertion A character was wrongly inserted during the previous commit, triggering a spellcheck error
- drivers/eaton-mib.c: snmp-ups: Publish outlet.n.name for Eaton ePDU
- docs/nut-names.txt: Extend namespace for iPDU and outlets Extend NUT namespace to also publish the name of an outlet, using "outlet.n.name", beside from the existing "outlet.n.desc"

2.1518 2017-08-03 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/eaton-mib.c: snmp-ups: Fix the phase of outlet groups for Eaton PDU Compute the phase to which an outlet group is connected WRT the total number of phase(s) and the considered outlet group number.
- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: Introduce values lookup functions As already used in other drivers, such as usbhid-ups, introduce optional values lookup functions, beside from values lookup mapping. This allows to have a more powerful and generic values processing before publication

2.1519 2017-08-02 Charles Lepple <clepple+nut@gmail.com>

- drivers/cps-hid.c: CPS HID: add input.frequency and output.frequency (0.5) Suggested by Andy Jan: http://lists.alioth.debian.org/-pipermail/nut-upsuser/2017-August/010856.html

2.1520 2017-07-22 Charles Lepple <clepple+nut@gmail.com>

- drivers/openups-hid.c: usbhid-ups: only check iOEMInformation once for openups2 This prevents the *libusb_get_string: invalid argument* message from being logged continously. Patch provided by Alphonse <alphsteiner@gmail.com> http://lists.alioth.debi pipermail/nut-upsdev/2017-July/007314.html

2.1521 2017-06-26 Jim Klimov <jim@jimklimov.com>

- docs/man/Makefile.am: docs/man/Makefile.am : Suffice to have prebuilt docs in dist-ed sources only if DOC_INSTALL_DISTED_MA is enabled
- docs/man/Makefile.am: docs/man/Makefile.am : Fix up dist-ed manpage source timestamps regardless of DOC_INSTALL_DISTED_ value
- docs/man/Makefile.am: docs/man/Makefile.am : Fix up manpage source timestamps when dist-ing
- docs/Makefile.am: docs/Makefile.am : make sure the builddir copy of docbook-xsl.css is writeable (file is copied from OS, some distros have it 444 and not 644)
- docs/man/Makefile.am: docs/man/Makefile.am : do not rebuild docs and do not error out if a prebuilt copy is among sources (not only in builddir as before)
- configure.ac docs/man/Makefile.am : track DOC_INSTALL_DISTED_MANS fallback behavior
- m4/nut_check_asciidoc.m4 configure.ac : parametrize the required minimum versions (asciidoc/a2x, dblatex)
- configure.ac: configure.ac : refer to detailed doc from --with-doc help text; preset explicit nut_with_doc=man=auto value
- docs/man/Makefile.am: docs/man/Makefile.am : small typo in comment
- configure.ac: configure.ac : move comment to a more relevant line

2.1522 2017-06-25 Charles Lepple <clepple+nut@gmail.com>

- tools/gitlog2changelog.py: gitlog2changelog: log parse errors for Author and Date Suggested by Jim Klimov.
- tools/gitlog2changelog.py: gitlog2changelog: Date header only occurs at start of line Alternative to https://github.com/-networkupstools/nut/pull/427

2.1523 2017-06-13 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/main.c: all drivers: update inline help for *-d <count>*

2.1524 2017-06-12 Emilien Kia (Eaton) <EmilienKia@Eaton.com>

- docs/man/nutupsdrv.txt, drivers/main.c: Add option to run driver on standalone mode. (#423) When a driver is launched with *-s <id>* instead of *-a <id>*, the driver does not read ups.conf and only looks for parameters on command line arguments (-x <var>=<val>). At least, *port* parameter shall be specified.

2.1525 2017-06-12 EVER-PowerSystems <it.support@ever.eu>

- drivers/ever-hid.c: fixed status names, added comments, fixed duplicates
- drivers/ever-hid.c: fixed NUT names

2.1526 2017-06-12 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/powerware-mib.c: snmp-ups: add input.bypass.frequency for Eaton 3ph
- docs/man/nutupsdrv.txt, drivers/main.c: all drivers: change dump_data from flag to variable The new option *-d dump_data* can now accept the number of update loops requested as its value

2.1527 2017-06-09 Arnaud Quette <arnaud.quette@free.fr>

- drivers/main.c: all drivers: add *-d* data dump option Add *-d* option to the driver-core, which causes the driver to dump the data tree in upsc-like format to stdout, and exit

2.1528 2017-06-09 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/man/nutupsdrv.txt, drivers/dstate.c, drivers/dstate.h, drivers/main.c: all drivers: add *-d* data dump option Add *-d* option to the driver-core, which causes the driver to dump the data tree in upsc-like format to stdout, and exit

2.1529 2017-06-03 Charles Lepple <clepple+nut@gmail.com>

- drivers/belkin-hid.c: usbhid-ups: add Liebert GXT4 USB VID:PID [10AF:0000] Source: http://lists.alioth.debian.org/pipermail/-nut-upsuser/2017-June/010682.html Voltage and ConfigVoltage appear to be scaled improperly per the debug output.

2.1530 2017-05-24 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-names.txt, drivers/eaton-mib.c, drivers/snmp-ups.c: snmp-ups: add support for outlet.group phase (#422) * snmp-ups: fix oid2info value lookup When oid2info returns NULL, don't publish the variable. Previously, this was returning "UNKNOWN" which was not suitable * snmp-ups: add support for outlet.group phase Outlets groups can now publish the electrical phase to which the physical outlets group (Gang) is connected to. This is useful for 3ph ePDU

2.1531 2017-05-21 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: CPS EC750G Source: http://lists.alioth.debian.org/pipermail/nut-upsuser/2016-December/010461.html
- data/driver.list.in: HCL: CPS PR2200LCDRT2U (SNMP)

2.1532 2017-05-20 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Add APC Back-UPS CS; edit other APC USB entries Closes: https://github.com/networkupstools/-nut/issues/365
- data/driver.list.in: HCL: CyberPower EC350G supported by usbhid-ups (v2.7.3) Per @aurimasv on GitHub: > Test results: Tested on FreeNAS 9.10.1. Unplugged the UPS and the system > shutdown after 30 seconds. Closes: https://github.com/-networkupstools/nut/issues/347 Also sorted CPS entries.
- data/driver.list.in: HCL: Powercool 350VA to 1600VA USB (v2.7.2\+) Closes: https://github.com/networkupstools/nut/issues/-203
- data/driver.list.in: HCL: Numeric Digital 800 plus works with nutdrv_qx Closes: https://github.com/networkupstools/nut/-issues/115 (\~ 2.7.4)

2.1533 2017-05-08 EVER-PowerSystems <it.support@ever.eu>

- drivers/Makefile.am: fixed errors in makefile
- drivers/Makefile.am, drivers/ever-hid.c, drivers/ever-hid.h, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.rules: add EVER hid ups

2.1534 2017-04-21 Jim Klimov <jim@jimklimov.com>

- docs/Makefile.am: docs: build cables html documentation Don't skip cables from html documentation.
- docs/Makefile.am: docs/Makefile.am : make the working directory contents writable before running a2x, so it can manage files copied as read-only in earlier steps

2.1535 2017-04-10 Jim Klimov <jimklimov@gmail.com>

- docs/man/Makefile.am: Update Makefile.am Some systems detect text sources as "ISO-8859 English" text - please them.

2.1536 2017-04-10 Jim Klimov <jim@jimklimov.com>

- docs/Makefile.am, docs/man/Makefile.am: Some systems detect html-pages as "XML" - please them too
- docs/man/Makefile.am: Some systems detect man-pages as "ASCII text"
  - please them

2.1537 2017-04-09 Jim Klimov <jim@jimklimov.com>

- docs/Makefile.am: docs/Makefile.am : typo fix not-building FAQ.chunked
- docs/man/Makefile.am: docs/man/Makefile.am : fix check-man-html for distcheck
- docs/man/Makefile.am: docs/man/Makefile.am : fix check-man-pages for distcheck
- docs/man/Makefile.am: docs/man/Makefile.am : fix check-man-txt for distcheck
- configure.ac, docs/Makefile.am, docs/man/Makefile.am: Add "make check" for generated (or "released" pre-built) docs
- docs/Makefile.am: docs/Makefile.am : typo fix not-building FAQ.chunked
- configure.ac: configure.ac : add --with-doc(s)=all={yes,no,skip,auto} to manch e.g. man=skip etc. syntax

2.1538 2017-04-08 Sam Varshavchik <mrsam@courier-mta.com>

- docs/man/Makefile.am: Fix creation of documentation from libnutclient_misc.txt A simple .txt.3 rule doesn't understand that libnutclient_misc.txt creates a bunch of .3. A parallel build, say *make -j 10* results in make trying to figure out how to build nutclient_authenticate.3 before building libnutclient_misc.3, and without a corresponding .txt in sight it gives up. Rebased onto master by Charles Lepple clepple\+nut@gmail.com Closes: https://github.com/networkupstools/nut/pull/418

2.1539 2017-04-05 Arnaud Quette <ArnaudQuette@Eaton.com>

- data/driver.list.in: Add support for Eaton 9PX Split Phase 6/8/10 kVA Using netxml-ups, usbhid-ups and mge-shut
- drivers/netxml-ups.c: netxml-ups: bump driver version In order to reflect update for 2phases, bump driver version
- drivers/dstate.c: dstate_detect_phasecount: update for 2phases Update the code to be able to handle 2phases devices, also known as "split phases"

2.1540 2017-04-04 Arnaud Quette <arnaud.quette@free.fr>

- clients/upsclient.c, drivers/gamatronic.c, drivers/openups-hid.c, drivers/snmp-ups.c, server/netssl.c, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-serial.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_sr
tools/nut-scanner/scan_xml_http.c: Cppcheck improvements (#405) Fix all Cppcheck errors, using standard c89: * Uninitialized variables, * Memory leak, * Brackets balancing, * Common realloc mistake, * Possible null pointer dereference, * Array index out of bounds, * Not null-terminated string

2.1541 2017-04-04 Arnaud Quette <ArnaudQuette@Eaton.com>

- clients/status.h: upsstats (CGI): add support for alarms Whenever a device publishes the ALARM flag in ups.status, the CGI will publish it part of the Status
- clients/upsmon.c, clients/upsmon.h, conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt, docs/man/upsmon.txt: upsmon: add support for alarms Add general support for alarms to upsmon, which relates to the ups.status variable of a device holding the flag "ALARM". upsmon now has a "notify type" alarm, which allows to react on such events, as with other events
- MAINTAINERS, data/driver.list.in, docs/man/nutupsdrv.txt, drivers/Makefile.am, drivers/mge-shut.c, drivers/mge-shut.h: oldmge-shut: final deprecation and removal oldmge-shut is not anymore part of the distribution, and is replaced by mge-shut

2.1542 2017-03-31 Nash Kaminski <nashkaminski@comcast.net>

- docs/man/liebert-esp2.txt, docs/nut.dict, drivers/liebert-esp2.c: liebert-esp2 changes: Correct battery V scaling, update docs, implement split-phase unit support (#412) * Update liebert-esp2 documentation, include note that port on GXT2 series does not fully follow RS-232 specs. * Refactor output format of liebert-esp2 driver to follow that of other drivers to fix the nut-cgi interface as well as for overall consistency. Implement support for 2 phase i.e. split phase input Liebert GXT2 series units. Correct battery voltage scaling for GXT2 series units as well. * Update nut.dict
- Update nut.dict

2.1543 2017-03-30 Jim Klimov <jim@jimklimov.com>

- .travis.yml: Problem: NUT tests in Travis CI often wait for default-withdoc Solution in .travis.yml : since Travis cloud starts the jobs as soon as it has resources, move the bulk of quicker matrix jobs to start after the longest withdocs build. Experimental note: we still need one job defined in the simple matrix for default environment, but can keep others in a single explicitly ordered list. Now the "Running for" time got cut from 8-9 to 5.5-6 minutes.

2.1544 2017-03-29 Jim Klimov <jim@jimklimov.com>

- docs/Makefile.am: docs/Makefile.am : update comment about spellcheck-sortdict post-processing, to make it more relevant
- docs/man/upsd.conf.txt, docs/nut.dict: Fix some more typos and add nut.dict exceptions

2.1545 2017-03-29 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/man/upsd.conf.txt: upsd.conf.txt: fix a typo from the previous commit
- conf/upsd.conf.sample, docs/man/upsd.conf.txt: upsd.conf: clarification on the LISTEN directive

2.1546 2017-03-22 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/libusb1.c, drivers/nut_libusb.h, tools/nut-scanner/scan_usb.c: Fix spacers
- drivers/libusb1.c, drivers/nut_libusb.h, tools/nut-scanner/scan_usb.c: Fix spacers
- clients/upssched-cmd, conf/upssched.conf.sample.in: upssched: align documentation and sample files Align documentation and sample configuration and script, so that the whole is more coherent

2.1547 2017-03-21 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/scheduling.txt: upssched: some clarification on TIMER

2.1548 2017-03-20 Charles Lepple <clepple+git@gmail.com>

- docs/nut.dict: Re-sort nut.dict (#406) * Re-sort nut.dict * nut.dict header line

2.1549 2017-03-15 Jim Klimov <jim@jimklimov.com>

- docs/config-notes.txt: config-notes.txt : small clarifications in the text
- docs/developers.txt: developers.txt : small clarifications in the text and line-wrapping and backticks
- docs/config-notes.txt: config-notes.txt : small clarifications in the text and line-wrapping
- docs/cables.txt: cables.txt : line-wrapping
- docs/asciidoc.txt: asciidoc.txt : line-wrapping
- docs/acknowledgements.txt: acknowledgements.txt : line-wrapping
- docs/support.txt: support.txt : small clarifications in the text and line-wrapping
- docs/security.txt: security.txt : small clarifications in the text and line-wrapping
- docs/outlets.txt: outlets.txt : line-wrapping
- docs/new-drivers.txt: new-drivers.txt : line-wrapping
- docs/net-protocol.txt: net-protocol.txt : line-wrapping
- docs/maintainer-guide.txt: maintainer-guide.txt : small clarifications in the text and line-wrapping and backticks
- docs/macros.txt: macros.txt : line-wrapping
- docs/history.txt: history.txt : line-wrapping

- docs/features.txt: features.txt : small clarifications in the text and line-wrapping and backticks
- docs/download.txt: download.txt : line-wrapping
- docs/developers.txt: developers.txt : small clarifications in the text and line-wrapping and backticks
- docs/daisychain.txt: daisychain.txt : small clarifications in the text and line-wrapping
- docs/configure.txt: configure.txt : small clarifications in the text
- docs/config-notes.txt: config-notes.txt : small clarifications in the text
- docs/acknowledgements.txt: acknowledgements.txt : small clarifications in the text
- docs/FAQ.txt, docs/nutdrv_qx-subdrivers.txt: nutdrv_qx-subdrivers.txt : small clarifications in the text
- docs/nut.dict: nut.dict : know of "nowait"

2.1550 2017-03-14 Spiros Ioannou <sivann@inaccess.com>

- .travis.yml: added libmodbus-dev to travis configuration

2.1551 2017-03-13 Spiros Ioannou <sivann@inaccess.com>

- configure.ac, data/driver.list.in, docs/man/Makefile.am, docs/man/index.txt, docs/man/phoenixcontact_modbus.txt, docs/nut.dict, drivers/Makefile.am, drivers/phoenixcontact_modbus.c, m4/nut_check_libmodbus.m4: phoenixcontact_modbus driver Closes: https://github.com/networkupstools/nut/pull/404

2.1552 2017-03-13 Jim Klimov <jim@jimklimov.com>

- docs/nut.dict: nut.dict : add "distros" slangey
- docs/configure.txt, docs/contact-closure.txt, docs/daisychain.txt, docs/developers.txt, docs/features.txt, docs/history.txt, docs/net-protocol.txt, docs/new-drivers.txt, docs/nut-names.txt, docs/nut-qa.txt, docs/nutdrv_qx-subdrivers.txt, docs/outlets.txt, docs/sock-protocol.txt: docs/*.txt : cleanup long-dash (use double-minus)
- docs/acknowledgements.txt, docs/cables.txt, docs/configure.txt, docs/contact-closure.txt, docs/design.txt, docs/developer-guide.txt, docs/developers.txt, docs/documentation.txt, docs/download.txt, docs/features.txt, docs/hid-subdrivers.txt, docs/history.txt, docs/macros.txt, docs/maintainer-guide.txt, docs/net-protocol.txt, docs/new-clients.txt, docs/new-drivers.txt, docs/nut-names.txt, docs/nut-qa.txt, docs/outlets.txt, docs/packager-guide.txt, docs/snmp-subdrivers.txt, docs/snmp.txt, docs/sock-protocol.txt, docs/support.txt, docs/user-manual.txt: docs/*.txt : cleanup trailing whitespace
- docs/FAQ.txt, docs/config-notes.txt, docs/scheduling.txt, docs/security.txt: Some docs/ files revised to backtick pathnames, clean up trailing whitespace, and use double-minuses for long-dash in sentences
- docs/nut.dict: docs/nut.dict : add "FHS"

2.1553 2017-03-13 Arnaud Quette <ArnaudQuette@Eaton.com>

- scripts/systemd/nutshutdown.in: Prefer @CONFPATH@ over @sysconfdir@ Otherwise, the generated nutshutdown script can end up with a non specifying --sysconfdir and using default flags
- scripts/systemd/nutshutdown.in: Prefer @CONFPATH@ over @sysconfdir@ Otherwise, the generated nutshutdown script can end up with a non specifying --sysconfdir and using default flags
- docs/scheduling.txt: Disambiguate FHS - Filesystem Hierarchy Standard
- docs/security.txt: Missing space

2.1554 2017-03-04 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: snmp-ups.c : presumed typo fix : NUT var for bypass mapping is "input.bypass" (fix the caller too)
- docs/hid-subdrivers.txt, docs/nut.dict: spellcheck: "futher" is a mistaken exception in custom dictionary
- docs/nut.dict: nut.dict bumped to support nut-website documents with words that Travis does not know
- drivers/snmp-ups.c: snmp-ups.c : presumed typo fix : NUT var for bypass mapping is "input.bypass" (fix the caller too)
- docs/nut.dict: nut.dict bumped to support nut-website documents with words that Travis does not know
- docs/nut.dict: nut.dict bumped to support nut-website documents

2.1555 2017-03-04 Arnaud Quette <ArnaudQuette@Eaton.com>

- docs/FAQ.txt, docs/config-notes.txt, docs/scheduling.txt, docs/security.txt: Try to adapt paths in documentation Documentation still widely uses the default paths source when compiled from source. While it is feasible to adapt some at compilation time, it is not desirable since, for example, the online documentation on networkupstools.org has to be generic. So try to make these paths more generic when possible, and otherwise make a note

2.1556 2017-03-02 Arnaud Quette <ArnaudQuette@Eaton.com>

- tools/nut-ddl-dump.sh: nut-ddl-dump.sh: various improvements Improve the script to generate NUT device dumps by adding: * a header line that mentions the generation source (automatic) and date * add upsrw dump as comments * add upscmd dump as comments
- drivers/eaton-ats16-mib.c: snmp-ups: ATS16 fixes for ambient sensor values Values for the attached ambient sensor to an ATS16 were erroneously multiplied by 10

2.1557 2017-03-01 Jim Klimov <jimklimov@gmail.com>

- drivers/mge-xml.c: Update mge-xml.c Include drivers/main.h to get testvar() declared properly

2.1558 2017-03-01 Jim Klimov <jim@jimklimov.com>

- docs/man/upscli_init.txt: docs/man/upscli_init.txt : rephrase the text to pass spellcheck (and human readability) and wrap some long lines
- drivers/snmp-ups.c: snmp-ups.c : presumed typo fix : NUT var for bypass mapping is "input.bypass"
- drivers/snmp-ups.c: snmp-ups.c : added comments about some daisychain global vars

2.1559 2017-02-28 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: drivers/snmp-ups.c : in snmp_ups_walk(), report in log if aborting because of exit_flag
- drivers/snmp-ups.c: drivers/snmp-ups.c : in snmp_ups_walk(), update some comments
- drivers/snmp-ups.c: drivers/snmp-ups.c : presumed typo fix in comment about daisy (should be "1..N" not "2..N" in final code)
- drivers/snmp-ups.c: drivers/snmp-ups.c : comment in snmp_ups_walk() about daisychains vs unitary devices
- drivers/snmp-ups.c: drivers/snmp-ups.c : comment in snmp_ups_walk() about daisychains vs unitary devices
- drivers/snmp-ups.c: drivers/snmp-ups.c : fix trailing whitespace

- drivers/dstate.c, drivers/dstate.h, drivers/usbhid-ups.h: drivers/dstate.c : in dstate_detect_phasecount() do not hardcode a buf[] size but use a macro
- drivers/dstate.c: drivers/dstate.c : extend a comment about 2-phase devices into dstate_detect_phasecount()
- docs/man/netxml-ups.txt, drivers/mge-xml.c, drivers/netxml-ups.c: mge-xml / netxml-ups : reimplement do_convert_deci as a simple VAR_FLAG setting
- data/Makefile.am: data/Makefile.am : did not link back to "spellcheck-sortdict"

2.1560 2017-02-27 Jim Klimov <jim@jimklimov.com>

- drivers/mge-xml.c: mge-xml.c : add debug logging of values which were converted
- docs/man/netxml-ups.txt, docs/nut.dict, drivers/mge-xml.c, drivers/netxml-ups.c: netxml-ups and mge-xml : allow users to reenable legacy convert_deci() behavior at run-time, with a configuration toggle (documented)
- drivers/mge-xml.c: mge-xml.c : updated comment about convert_deci() pre-history
- drivers/netxml-ups.c: netxml-ups.c : typo fix (shutdwon ⇒ shutdown)
- docs/man/netxml-ups.txt: docs/man/netxml-ups.txt : trailing whitespace fixes

2.1561 2017-02-21 Jim Klimov <jim@jimklimov.com>

- drivers/mge-xml.c: drivers/mge-xml.c : when reporting deprecation of convert_deci(), do it once visibly with details like issue tracker URL, and in regular debug messages refer to that line

2.1562 2017-02-20 Jim Klimov <jim@jimklimov.com>

- drivers/mge-xml.c: drivers/mge-xml.c : in convert_deci() now report it is deprecated (with debug level 5) so we get reports if deprecation bites anyone in reality
- drivers/mge-xml.c: drivers/mge-xml.c : bump subdriver version
- drivers/mge-xml.c: drivers/mge-xml.c : bump copyrights

2.1563 2017-02-18 Jim Klimov <jimklimov@gmail.com>

- drivers/mge-xml.c: Disable convert_deci() that was needed a decade ago Left the old code in place, commented away. If devices with old NetXML pop up (those which served in XML 10x the measured value), fixes can be applied based on voltage and amps and power (order of magnitude comparison), or perhaps model names and/or firmware versions or release dates, if we get those.

2.1564 2017-02-12 Jim Klimov <jim@jimklimov.com>

- drivers/dstate.c: dstate.c : catch a few more zero value representation and comment about others

2.1565 2017-02-10 Jim Klimov <jim@jimklimov.com>

- drivers/dstate.c: dstate.c : refactor dstate_detect_phasecount() : change the report about calculated values to use common format with *func*
- drivers/dstate.c: dstate.c : refactor dstate_detect_phasecount() : change the no-longer-sexy overgrown one-liners with a readable macro
- drivers/dstate.c: dstate.c : important typo fixed for dstate_detect_phasecount()
- drivers/dstate.c: dstate.c : revise comment for dstate_detect_phasecount()
- drivers/dstate.c: dstate.c : address code style (move var declarations to top of scope)
- drivers/dstate.c: dstate.c : address some nit-picks

2.1566 2017-02-09 Jim Klimov <jim@jimklimov.com>

- drivers/dstate.c, drivers/dstate.h, drivers/mge-xml.c: Refactor dstate_detect_phasecount(), adding a read-only mode (so the caller can query the guesswork logic without changing active dstates)
- drivers/dstate.c, drivers/dstate.h, drivers/mge-xml.c: Refactor the dstate guesswork and setting for 1/3 phases, move it to common dstate.c/.h and rename to dstate_detect_phasecount()
- drivers/mge-xml.c: Refactor recent logic into a common set_phasecount()
- drivers/mge-xml.c: Drop an empty line
- drivers/mge-xml.c: mge-xml.c : calculate (input|bypass\|output).phases number (1 or 3) based on available non-zero measurements - typo fix for "INPUT.bypass."
- drivers/mge-xml.c: mge-xml.c : calculate (input|bypass\|output).phases number (1 or 3) based on available non-zero measurements - consider absence of Lx values for 1-phase case
- drivers/mge-xml.c: mge-xml.c : calculate (input|bypass\|output).phases number (1 or 3) based on available non-zero measurements - also consider current (amps)
- drivers/mge-xml.c: mge-xml.c : calculate (input|bypass\|output).phases number (1 or 3) based on available non-zero measurements

2.1567 2017-02-04 Steven Bell <stv.bell07@gmail.com>

- docs/nut.dict: Removed line left over from merge conflict. Ooops!

2.1568 2017-02-02 Daniel Schaal <daniel@schaal.email>

- drivers/main.c: Add foreground option to drivers
- docs/man/upsd.txt, scripts/systemd/nut-server.service.in, server/upsd.c: Add foreground option to upsd

2.1569 2017-01-28 Laurent Bigonville <bigon@bigon.be>

- scripts/systemd/nutshutdown.in: Add support for POWEROFF_WAIT parameter Use "systemctl reboot --force --force" to reboot the machine has not been shutdown after the POWEROFF_WAIT delay. Closes: #382
- scripts/systemd/nutshutdown.in: Add support for POWEROFF_WAIT parameter Use "systemctl reboot --force --force" to reboot the machine has not been shutdown after the POWEROFF_WAIT delay. Closes: #382

2.1570 2017-01-28 Jim Klimov <jim@jimklimov.com>

- docs/man/ups.conf.txt, docs/man/upsdrvctl.txt, drivers/upsdrvctl.c: From: Arnaud Quette <arnaud.quette@free.fr> Date: Sat, 7 Jun 2014 02:27:15 \+0200 Subject: [PATCH] Add *nowait* option for upsdrvctl in ups.conf The nowait flag allow to tell upsdrvctl to not wait at all for the driver(s) to execute the request command. The default behavior, when this variable is omitted, is to wait *maxstartdelay* seconds
- drivers/eaton-ats30-mib.c: drivers/eaton-ats30-mib.c : fix whitespace
- drivers/snmp-ups.c: drivers/snmp-ups.c : fix trailing whitespaces
- docs/nut.dict: nut.dict : know of "nowait"
- docs/Makefile.am: docs/Makefile.am : after spellcheck-interactive, advise how to review the dictionary changes and avoid regressions
- conf/upsd.conf.sample, conf/upsmon.conf.sample.in, conf/upssched.conf.sample.in, docs/nut.dict: Spellchecked the conf/ sample files
- Makefile.am, conf/Makefile.am: Spellcheck the conf/ directory
- conf/upsd.users.sample, conf/upsmon.conf.sample.in: upsmon.conf.sample.in : clarify nuances of master/slave systems, and special use-cases of SHUTDOWNCMD and powervalue==0
- conf/hosts.conf.sample, conf/nut.conf.sample, conf/ups.conf.sample, conf/upsd.conf.sample, conf/upsd.users.sample, conf/upsmon.co conf/upssched.conf.sample.in, conf/upsset.conf.sample, conf/upsstats.html.sample: Sample configuration files : fix leading and trailing whitespace (mix of tab/space)
- conf/ups.conf.sample: ups.conf.sample : move maxretry example higher in the file so it is before driver-block examples
- drivers/apc-pdu-mib.c: Date: Fri Aug 19 02:43:44 2016 \+0200 apc-pdu-mib.c fixes : * added trailing NULLs for proper structure size; * fixed some items' flags; * fixed whitespace; * bumped MIBmap version
- data/driver.list.in, drivers/Makefile.am, drivers/apc-pdu-mib.c, drivers/apc-pdu-mib.h, drivers/snmp-ups.c: From: Arnaud Quette <arnaud.quette@free.fr> Date: Fri, 8 Apr 2016 14:40:00 \+0200 Subject: [PATCH] snmp-ups: support APC PDU Based on initial work and data from Opengear, using SNMP subdriver creation script, add support for the more recent APC PDU. This was tested with a AP8958, but should cover other models
- docs/man/ups.conf.txt, docs/man/upsdrvctl.txt, drivers/upsdrvctl.c: From: Arnaud Quette <arnaud.quette@free.fr> Date: Sat, 7 Jun 2014 02:27:15 \+0200 Subject: [PATCH] Add *nowait* option for upsdrvctl in ups.conf The nowait flag allow to tell upsdrvctl to not wait at all for the driver(s) to execute the request command. The default behavior, when this variable is omitted, is to wait *maxstartdelay* seconds
- conf/ups.conf.sample: Document and pre-set the "maxretry" option in ups.conf.sample

2.1571 2017-01-27 Steven Bell <stv.bell07@gmail.com>

- docs/man/upscli_connect.txt, docs/nut.dict: Fixed issues with documentation for automated spellcheck during CI check.
- docs/man/upscli_add_host_cert.txt, docs/man/upscli_connect.txt, docs/man/upscli_init.txt: Updated and corrected documentation.

2.1572 2017-01-27 Jim Klimov <jim@jimklimov.com>

- drivers/eaton-ats16-mib.c, drivers/eaton-ats30-mib.c: Prefix structures in eaton-atsXY-mib.c files with an eaton_atsXY rather than just atsXY
- README: not asciidoc, and redistributed - do not link to volatile build status
- docs/nut.dict: docs/nut.dict : sorted to facilitate further maintenance

- NEWS, docs/nut.dict: Spellcheck : Fixed typo in Tore O*r*petveit's name
- README: README : embed a Travis status image link for NUT Master branch
- Makefile.am, docs/.gitignore, docs/Makefile.am, docs/man/Makefile.am: Spellcheck : add a recipe to keep nut.dict sorted so git diffs are clearer
- Makefile.am: Makefile.am : when calling spellcheck or spellcheck-interactive for several subdirs, do not stop after the first failed sub-make

2.1573 2017-01-27 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/snmp-ups.c: snmp-ups: Fix counter OID matching In case of multiple similar sysOID (i.e. same sysOID in different subdrivers), there is a counter matching OID (generally using the model OID). However, the matching was causing a crash of snmp-ups in case where it was not the right MIB mapping and the OID for model entry was not available
- Makefile.am, data/Makefile.am, data/cmdvartab: Integrate cmdvartab to the spellcheck target This also includes 2 spelling fixes
- drivers/Makefile.am, drivers/eaton-ats16-mib.c, drivers/eaton-ats16-mib.h, drivers/snmp-ups.c: snmp-ups: rename Eaton ATS16 resources Rename the subdriver files along with the structure and entries, to make a clear difference with the newly added eaton_ats30. This completes the previous commit, where some files was erroneously committed
- drivers/{eaton-ats-mib.c ⇒ eaton-ats16-mib.c}, drivers/{eaton-ats-mib.h ⇒ eaton-ats16-mib.h}, drivers/eaton-ats30-mib.c: Fix unterminated comment, from previous commit
- tools/nut-scanner/scan_snmp.c: nut-scanner: force numeric resolution of OIDs As done in snmp-ups, force the numeric resolution of OIDs, to ensure correct OID matching in all cases
- drivers/snmp-ups.c: Only free variable when needed in su_setvar/su_setOID Previously, we tried to free temporary pointers in all cases. However, this pointer may ever point at the static structure, in case we do not need to instantiate variable (outlet.* collection), and which causes a crash of the driver
- drivers/eaton-ats30-mib.c: Add a comment on the unused OIDs
- drivers/snmp-ups.c: Fix spacing
- drivers/eaton-ats30-mib.c, drivers/eaton-ats30-mib.h: Fix legal information

2.1574 2017-01-26 Tomas Halman <TomasHalman@eaton.com>

- drivers/Makefile.am, drivers/eaton-ats30-mib.c, drivers/eaton-ats30-mib.h, drivers/snmp-ups.c: snmp-ups: support Eaton Automatic Transfer Switch ATS30 ATS30 MIB differs from previously integrated EATON ATS driver.

2.1575 2017-01-24 Jim Klimov <jim@jimklimov.com>

- common/common.c, configure.ac: Add support for system library directories with names based on target/build/host OS spec (for GCC at least)

2.1576 2017-01-23 Jim Klimov <jim@jimklimov.com>

- drivers/mge-hid.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_bestups.c: Fix the non-ASCII quote character away from C sources
- docs/daisychain.txt, docs/man/al175.txt, docs/man/apcsmart.txt, docs/man/apcupsd-ups.txt, docs/man/bcmxcp_usb.txt, docs/man/bestups.txt, docs/man/blazer-common.txt, docs/man/clone.txt, docs/man/libnutclient_commands.txt, docs/man/libnutclient_misc.txt, docs/man/libnutclient_tcp.txt, docs/man/libnutclient_variables.txt, docs/man/macosx-ups.txt, docs/man/mgeshut.txt, docs/man/nut-scanner.txt, docs/man/nutdrv_qx.txt, docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_add_opti docs/man/nutscan_cidr_to_ip.txt, docs/man/nutscan_get_serial_ports_list.txt, docs/man/nutupsdrv.txt, docs/man/skel.txt, docs/man/sn ups.txt, docs/man/solis.txt, docs/man/ups.conf.txt, docs/man/upscode2.txt, docs/man/upsd.conf.txt, docs/man/upsd.txt, docs/man/upsmon.conf.txt, docs/man/upsmon.txt, docs/man/upsrw.txt, docs/man/upssched.conf.txt, docs/man/upsstats.html.txt, docs/man/usbhid-ups.txt, docs/nut.dict: Update nut.dict and manpage sources after initial spellchecking integration

- Makefile.am, ci_build.sh, docs/man/Makefile.am: docs/man/Makefile.am : track all manpage sources in a separate variable and use that for spellchecker
- docs/Makefile.am: docs/Makefile.am : add daisychain to ALL_TXT_SRC
- docs/Makefile.am: docs/Makefile.am : revised TODOs for spellchecker

2.1577 2017-01-21 Jim Klimov <jim@jimklimov.com>

- indent.sh: Initial commit of indent.sh helper

2.1578 2017-01-20 Jim Klimov <jimklimov@gmail.com>

- .travis.yml: Enable valgrind in travis matrix

2.1579 2017-01-20 Jim Klimov <jim@jimklimov.com>

- Makefile.am, tests/Makefile.am: VALGRIND: abuse distcheck to run tested programs in debug mode under valgrind
- configure.ac: valgrind config fix
- ci_build.sh: Travis : make spellcheck failures fatal now
- docs/nut.dict: docs/nut.dict : add another word missed by earlier private dict
- docs/nut.dict: docs/nut.dict : try to enable UTF8 contributor names
- docs/Makefile.am: docs/Makefile.am : try to enable UTF8 in args and env
- .travis.yml, ci_build.sh: Travis : enable i2c tests
- .travis.yml: .travis.yml : rearrange apt deps and special case for doc/spell tests in the matrix
- .travis.yml, ci_build.sh: Travis: port the test-script structure from DMF brach (better case than if)

2.1580 2017-01-19 Jim Klimov <jimklimov@gmail.com>

- docs/Makefile.am: docs/Makefile.am : parametrize aspell common args; add togglable debugging of aspell setup

2.1581 2017-01-19 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/nutscan-init.c: nutscan-init.c : We can also use libusb-compat from newer libusb-1.0 releases (issue #361)
- docs/nut.dict: docs/nut.dict : add some words not in dictionaries available to Travis CI; add some developer names to the dictionary
- NEWS, TODO, UPGRADING, common/parseconf.c, docs/FAQ.txt, docs/acknowledgements.txt, docs/cables/sms.txt, docs/config-notes.txt, docs/download.txt, docs/hid-subdrivers.txt, docs/new-drivers.txt, docs/nut-qa.txt, docs/nut.dict, docs/nutdrv_qx-subdrivers.t docs/packager-guide.txt, docs/snmp-subdrivers.txt, lib/README, scripts/augeas/README: Spellchecker : Fix or rephrase issues found by spellchecker, and update the NUT custom dictionary
- docs/developers.txt: docs/developers.txt : fix non-ASCII tick character
- docs/acknowledgements.txt, docs/packager-guide.txt: Added myself to docs/acknowledgements.txt docs/packager-guide.txt
- docs/nut-qa.txt: docs/nut-qa.txt : rearranged the paragraph with CI (to fit in 80 cols) and added link to Travis CI dashboard for NUT branches

- docs/packager-guide.txt: docs/packager-guide.txt : rearranged the paragraph with recommended package description (to fit in 80 cols)
- docs/developers.txt: docs/developers.txt : mention the recently added Travis CI integration
- docs/developers.txt: docs/developers.txt : reformat the paragraph on distcheck-light, and mention the recently added option to skip building docs
- Makefile.am: Makefile.am : allow to call from workspace root the docs/Makefile for targets: spellcheck spellcheck-interactive doc
- ci_build.sh, docs/Makefile.am: docs/Makefile.am \+ Travis : support a SPELLCHECK_ERROR_FATAL toggle, and use it from Travis for now * docs/Makefile.am : also report if the build succeeds despite spellcheck errors (due to this setting)
- docs/Makefile.am: docs/Makefile.am : name the en lang explicitly
- docs/Makefile.am: docs/Makefile.am : big reorganization of spellcheck * spellcheck targets should fail the build not only if the last document failed the test * make sure to use custom spellcheck dictionary from NUT source tree; revise erroring out if automatic aspell finds issues * also set LC_ALL=C for aspell * revised spellcheck failure message to suggest next steps for the human * comment the spellcheck test; use more portable shell test (instead of bracket); do not fail on empty aspell outputs
- .travis.yml, ci_build.sh: Travis CI should call spellcheck as a separate spellchecking job (parallelize, optimize for speed, separate error causes/reports)
- .travis.yml: .travis.yml : add libcppunit to travis env, so tests in NUT will be enabled

2.1582 2017-01-14 Jim Klimov <jim@jimklimov.com>

- drivers/nut-libfreeipmi.c: drivers/nut-libfreeipmi.c : set the 4 voltage_range variable to unsigned ints

2.1583 2017-01-11 Jim Klimov <jim@jimklimov.com>

- .travis.yml: .travis.yml : drop comment for PR #354

2.1584 2017-01-10 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/snmp-ups.c: snmp-ups: fix device.type setting in daisychain mode device.type was not set due to a coding error, but pushed to device.model (reported by Evgeny "Jim" Klimov from Eaton)
- drivers/main.c: drivers: set the default device.type even earlier device.type default setting to "ups" has to be done prior to the initups() call, otherwise some devices (such as daisychained PDUs) will not be able to override it

2.1585 2017-01-06 Daniele Pezzini <hyouko@gmail.com>

- common/state.c: state: consider also ST_FLAG_NUMBER flags
- drivers/dstate.c: dstate: report ST_FLAG_NUMBERs also in response to a DUMPALL request
- drivers/dstate.c: dstate: when dealing with ranges, don't lose already-set flags Ranges are now explicitly flagged as numbers, but the use of dstate_setflags() means that we substitute any previously-set flag with the ones we pass to that function, losing, for example, an already-set r/w status, with the result of making an affected var unchangeable. Use instead the newly added dstate_addflags() function, which preserves already-set flags.
- drivers/dstate.c, drivers/dstate.h: dstate: add a couple of functions to ease the manipulation of flags

2.1586 2017-01-04 Jim Klimov <jim@jimklimov.com>

- ci_build.sh: ci_build.sh : list contents of installation directory
- ci_build.sh: ci_build.sh : fix installation directories for /etc and udev, devd and hotplug (not hardcoded root paths)
- ci_build.sh: ci_build.sh : list contents of installation directory
- ci_build.sh: ci_build.sh : fix installation directories for /etc and udev, devd and hotplug (not hardcoded root paths)
- .travis.yml, ci_build.sh: Travis : take advantage of "--with-doc=skip" support recently added in configure and Makefiles
- ci_build.sh: ci_build.sh : comment about missing i2c
- ci_build.sh: ci_build.sh : generalize the skipping of distcheck and make it more comprehensible in script code
- .travis.yml: .travis.yml : include the headers needed for i2c
- .travis.yml: .travis.yml : use specific libgd
- .travis.yml: .travis.yml : add graphics pkgs for CGI builds
- ci_build.sh: .travis.yml / ci_build.sh : speed up with parallel build (fall back to sequential if this fails)
- .travis.yml, ci_build.sh: .travis.yml / ci_build.sh : current NUT does not skip docs safely, so enable just manpages in default build
- .travis.yml: .travis.yml : add libipmimonitoring packages too
- .travis.yml: .travis.yml : older freeipmi in Travis Ubuntu 12.04.5
- ci_build.sh: ci_build.sh : fix the doc-skipping option
- .travis.yml: .travis.yml : apparently, libfreeipmi16 pkg requires extra invitation
- .travis.yml, ci_build.sh: Travis : require docs tools only for "default-withdoc" builds; change "default" to skip the docs (and try to pass distcheck)
- .travis.yml: .travis.yml : only define default-alldrv once
- .travis.yml, ci_build.sh: Initial integration of a travis matrix build (different scenarios)
- .gitignore, .travis.yml, ci_build.sh, docs/Makefile.am: Initial commits of config and script files for Travis CI automatic validation (simply do a compile and distcheck)
- configure.ac: configure.ac : switch default option to "--with-doc=man=auto" so ordinary builds succeed by default on any system
- configure.ac: configure.ac alias
- configure.ac: configure.ac : add the "--with-docs" as alias to "--with-doc"
- configure.ac, m4/ax_compare_version.m4, m4/nut_check_asciidoc.m4: Refactor nut_check_asciidoc.m4 and configure.ac to check all doc-tools in one place (and also only once), and fix comments and some coding issues

2.1587 2017-01-04 Arnaud Quette <ArnaudQuette@Eaton.com>

- m4/nut_check_asciidoc.m4: Minor typo fixes

2.1588 2016-12-29 Charles Lepple <clepple+nut@gmail.com>

- docs/new-drivers.txt: docs: reword/reformat new-drivers.txt Distinguish HID PDC from Q*, etc.

2.1589 2016-12-17 Daniel Schaal <daniel@schaal.email>

- clients/upsmon.c, docs/man/upsmon.txt, scripts/systemd/nut-monitor.service.in: Add option to run upsmon in foreground

2.1590 2016-11-29 Florian Bruhin <git@the-compiler.org>

- tools/gitlog2changelog.py: Fix gitlog2changelog.py on python 3
- scripts/augeas/gen-nutupsconf-aug.py: Make gen-nutupsconf-aug.py work with Python 3 This makes the script work with Python 2.6\+. Fixes #345.

2.1591 2016-11-28 Daniele Pezzini <hyouko@gmail.com>

- configure.ac: configure: fix checks for a2x-built docs Since, starting from commit d4a55ed, we now check that documents are buildable in an *external* directory, we need to call a2x with *--destination-dir* pointing to that directory, otherwise a2x will put the generated documents in the same directory where source files are and then testing the non-existent files under our *external* directory will always fail, meaning that we will never pass these checks.

2.1592 2016-11-21 Jim Klimov <jim@jimklimov.com>

- common/snprintf.c: common/snprintf.c : avoid a few compilation warnings and a possible crash due to padded ints in variadic functions
- common/snprintf.c, configure.ac: common/snprintf.c and configure.ac : avoid a few compilation warnings
- docs/Makefile.am: EXTRA_DIST the docs/asciidoc.txt as used in configure script checks
- configure.ac: configure.ac : avoid nonportable "mktemp --tmpdir" option

2.1593 2016-11-17 Michal Soltys <soltys@ziu.info>

- autogen.sh: minor script fixup In case any of the perl / python parts fails (for example if system default is python3, the script will complain about print), cd ../.. won't be executed. Furthermore - if any of those scripts fail, there's no point in continuing as both files are mandatory.
- docs/man/apcsmart.txt, drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: CS "hack" updates This patch adds cshdelay option (with default set to 3.5s) between "simulate power failure" and "soft hibernate" commands.

2.1594 2016-11-16 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-hid.c: sbhid-ups: fix Eaton/MGE mapping for beeper handling Two HID Paths exists for handling beeper status and commands. However, only one historic was implement, which was not actually suitable for issuing the commands on newer units (such as 3S, 5P*, ...) (reported by Sergey Talchuk) Closes: https://github.com/networkupstools/nut/issues/9
- drivers/usbhid-ups.c: usbhid-ups: adjust debuging info

2.1595 2016-11-09 Charles Lepple <clepple+nut@gmail.com>

- docs/nut-names.txt, drivers/libusb0.c, drivers/libusb1.c: Add `driver.version.usb` variable Reference: https://github.com/-networkupstools/nut/issues/300
- docs/nut-names.txt, drivers/libusb0.c, drivers/libusb1.c: Add `driver.version.usb` variable Reference: https://github.com/-networkupstools/nut/issues/300
- docs/nut-names.txt, drivers/libusb0.c, drivers/libusb1.c: Add `driver.version.usb` variable Reference: https://github.com/-networkupstools/nut/issues/300

2.1596 2016-11-03 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: CP1500EPFCLCD Source: https://github.com/networkupstools/nut/issues/337

2.1597 2016-11-02 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Eaton 5E2200VA Reference: https://github.com/networkupstools/nut/issues/335
- data/driver.list.in: HCL: Eaton Ellipse PRO 650 VA (USB) supported by usbhid-ups Closes: https://github.com/networkupstools/-nut/issues/255

2.1598 2016-10-21 Charles Lepple <clepple+nut@gmail.com>

- docs/download.txt: download.txt: Add Slackware link

2.1599 2016-10-12 Kirill Ovchinnikov <ovchinnikov@ians.aero>

- drivers/apc-mib.c, drivers/snmp-ups.c: apc-mib.c modified for ups.delay.{start,shutdown} to include SU_TYPE_TIME

2.1600 2016-10-11 Yann E. MORIN <yann.morin.1998@free.fr>

- clients/upsclient.c: client/ups: add missing include struct timeval is declared in sys/time.h, so we need to #include it.

2.1601 2016-10-11 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c: Remove unimplement nut-scanner option The -F --fingerprints-file option, used to provide an additional list of SNMP fingerprints, was never implemented, but made its way into the code. Remove it, at least while waiting for an actual implementation
- docs/man/nut-scanner.txt: Update nut-scanner manual page
- tools/nut-scanner/nutscan-device.c, tools/nut-scanner/scan_xml_http.c: Fix c+\+ style comments

2.1602 2016-10-05 Arnaud Quette <arnaud.quette@free.fr>

- common/common.c: Fix c+\+ style comments
- drivers/snmp-ups.c: Fix exit code for --list

2.1603 2016-09-28 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_xml_http.c: nut-scanner : implement single-IP and IP-range UDP NetXML device discovery
- tools/nut-scanner/scan_snmp.c: scan_xml_http.c : fix leading whitespaces (SPACE vs TABs mixed in code)
- tools/nut-scanner/scan_snmp.c: scan_xml_http.c : replace some fprintf with upsdebugx
- tools/nut-scanner/nut-scanner.c: nut-scanner.c : increased debug-tracing messages of nut-scanner progress
- tools/nut-scanner/nut-scanner.c: nut-scanner.c : replaced printq() with standard upsdebugx(), added "-D" option to increase debug verbosity as common in NUT, moved the help text printout to its own function

2.1604 2016-09-27 Jim Klimov <jim@jimklimov.com>

- common/common.c, include/common.h: common.c/.h : simplify the upsdebugx() enhancement (no need to fight with warnings/pragmas)

2.1605 2016-09-26 Arnaud Quette <arnaud.quette@free.fr>

- scripts/systemd/nut-server.service.in: systemd: add reload support for nut-server / upsd Add ExecReload entry to execute a configuration reload of upsd, using the available *upsd -c reload*

2.1606 2016-09-25 Charles Lepple <clepple+nut@gmail.com>

- drivers/libusb1.c: libusb1: use return code from libusb_open() Per http://libusb.sf.net/api-1.0/group__dev.html#ga8163100afdf933fabe the handle is only populated when the return code is 0. This fixes a crash during device detection where more than one HID UPS is available, and the driver needs to skip the first one.
- drivers/libusb1.c: libusb1: use return code from libusb_open() Per http://libusb.sf.net/api-1.0/group__dev.html#ga8163100afdf933fabe the handle is only populated when the return code is 0. This fixes a crash during device detection where more than one HID UPS is available, and the driver needs to skip the first one.
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2.1607 2016-09-21 Jim Klimov <jim@jimklimov.com>

- include/common.h: common.h : rearranged the ENABLE_WARNING/DISABLE_WARNING macro definitions so they are only called for supported compilers and generate empty macros (no-op) for others

2.1608 2016-09-20 Jim Klimov <jim@jimklimov.com>

- common/common.c: common.c : move anti-warning macros out of the function body, some compilers do not like that

2.1609 2016-09-19 Jim Klimov <jim@jimklimov.com>

- tools/nut-scanner/scan_xml_http.c: scan_xml_http.c : do not suggest NetXML support for ePDUs (almost exclusively they are XMLv4 and do not work with current NUT)

2.1610 2016-09-18 Jim Klimov <jim@jimklimov.com>

- common/common.c: common.c : in upsdebugx() added "[Dx]" prefix : do not add it for level 0

2.1611 2016-09-17 Jim Klimov <jim@jimklimov.com>

- configure.ac: configure.ac : do not fail configuration if a doctype picked with "auto" can not be built on this system - just skip it

2.1612 2016-09-17 Jim Klimov <EvgenyKlimov@eaton.com>

- common/common.c, include/common.h: common.c : augment upsdebugx() and upsdebug_with_errno() by prepending the debug-level to logged messages
- common/common.c: common.c : fix whitespaces

2.1613 2016-09-16 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.h: snmp-ups: update todo list The addition of sysContact and sysLocation support is now addressed centrally
- drivers/snmp-ups.c: snmp-ups: add sysContact and sysLocation support The generic MIB-2 provides system contact and location information that are now publish respectively as device.contact and device.location

2.1614 2016-09-15 Jim Klimov <jim@jimklimov.com>

- drivers/snmp-ups.c: Added and documented an snmp-ups argument to list currently loaded MIB-to-NUT mappings (typo fix)
- docs/man/snmp-ups.txt, drivers/snmp-ups.c: Added and documented an snmp-ups argument to list currently loaded MIB-to-NUT mappings
- drivers/snmp-ups.c: snmp-ups.c : small typo fix
- docs/man/snmp-ups.txt, drivers/ietf-mib.c: Mention tripplite mapping in snmp-ups manpage; updated some comments about it in ietf-mib.c
- configure.ac: configure.ac : when verifying ability to build docs, consider out-of-tree builds too

2.1615 2016-09-14 Jim Klimov <jim@jimklimov.com>

- common/common.c: common.c : revised upsdebugx() and upslogx() calls to not trail an extra newline
- common/common.c, configure.ac: Add support for system library directories with names based on short target/build/host OS spec too
- common/common.c: common.c : added logging and small optimizations during get_libname()
- common/common.c: common.c : add /usr/local/lib64 to search path
- tools/nut-scanner/nutscan-init.c: nut-scanner : support libneon-gnutls.so as an alternative name
- configure.ac: configure.ac : verify that we can actually build a simple or chunked HTML document, beside having nominal versions of software
- configure.ac: configure.ac : verify that we can actually build a manpage document, beside having nominal versions of software
- configure.ac: configure.ac : verify that we can actually build a simple PDF document, beside having nominal versions of software

2.1616 2016-09-13 Jim Klimov <jim@jimklimov.com>

- configure.ac, docs/man/Makefile.am: configure.ac, docs/man/Makefile.am - support SKIP_MANS as an explicit non-fatal situation
- drivers/ietf-mib.c: Give the Tripplite SNMP MIB a name, do not duplicate "ietf" entries

2.1617 2016-09-07 Jim Klimov <jim@jimklimov.com>

- drivers/dstate.c: dstate.c : a pedantic compiler warning fix
- configure.ac: configure.ac : add potential usage of valgrind, optional and configurable/detectable

2.1618 2016-09-02 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bcmxcp_usb.c, drivers/blazer_usb.c, drivers/libusb1.c, drivers/nutdrv_atcl_usb.c, drivers/nutdrv_qx.c, drivers/richcomm_usb.c drivers/riello_usb.c: libusb 1.0 port: fix return code for interrupt ops libusb 1.0 returns on success, the number of bytes actually transferred or otherwise an error code, except for interrupt transfers, where the actual transfer size is stored in a separate variable. The libusb 1.0 implementation in NUT thus needed to be fixed to behave the same way than the libusb 0.1 implementation Reference: https://github.com/networkupstools/nut/issues/300
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2.1619 2016-08-31 Arnaud Quette <arnaud.quette@free.fr>

- drivers/libusb1.c: libusb 1.0 port: remove the check on USB device count With the port to libusb 1.0, a sanity check was done on the available number of USB devices to try. This however caused a behavior regression, since the only device that NUT may have access to can be the only UPS connected. In this case, the driver may exit upon trying to reconnect if the device is transiently not available Reference: https://github.com/networkupstools/nut/issues/300
- drivers/libusb1.c, drivers/richcomm_usb.c: libusb 1.0 port: complete usb_set_altinterface code usb_set_altinterface allows to force the USB code to call `libusb_set_interface_alt_setting (0, {empty}0)` (equivalent to `libusb_set_altir` in libusb 0.1), as was done in NUT 2.7.2 and earlier. However, the libusb 1.0 implementation was still missing the related code Reference: https://github.com/networkupstools/nut/issues/300
- drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c: libusb 1.0 port: fix kernel driver detachment Following the recent modification for the kernel driver detachment, and the related functions availability depending on the platforms, nutdrv_atcl_usb and richcomm_usb were using the wrong macro for libusb_set_auto_detach_kernel_driver and were missing the libusb 1.0 code for explicit kernel driver detachment Reference: https://github.com/networkupstools/nut/issues/300
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- drivers/libusb1.c, drivers/richcomm_usb.c: libusb 1.0 port: complete usb_set_altinterface code usb_set_altinterface allows to force the USB code to call `libusb_set_interface_alt_setting (0, {empty}0)` (equivalent to `libusb_set_altir` in libusb 0.1), as was done in NUT 2.7.2 and earlier. However, the libusb 1.0 implementation was still missing the related code Reference: https://github.com/networkupstools/nut/issues/300
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2.1620 2016-08-17 Arnaud Quette <arnaud.quette@free.fr>

- drivers/libusb1.c, m4/nut_check_libusb.m4: libusb 1.0 port: rework the kernel driver detachment libusb 1.0 has introduced a new function (libusb_set_auto_detach_kernel_driver), beside from the explicit kernel driver detachment request (libusb_detach_kernel_ However, the former is not available on all systems. As an example, FreeBSD 10.1-10.3 does not have this. The detachment and interface claiming has been reworked to handle this case (reported by Charles Lepple) Reference: https://github.com/-networkupstools/nut/issues/300
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2.1621 2016-08-16 Arnaud Quette <arnaud.quette@free.fr>

- clients/upsrw.c: upsrw: display the variable type beside ENUM / RANGE upsrw now displays more information, beside the ENUM and RANGE, such as the variable type (NUMBER or STRING), and the maximum length for STRING Closes: https://github.com/networkupstools/nut/issues/267
- include/extstate.h: Add an explicit type NONE (ST_FLAG_NONE) Reference: https://github.com/networkupstools/nut/issues/-267
- server/netget.c: Modify server side publication for variable type ENUM can be either NUMBER or STRING, which was previously not published. Reference: https://github.com/networkupstools/nut/issues/267
- drivers/dstate.c: Automatically set the "NUMBER" flag for ranges Ranges, added through dstate_addrange(), only support numeric ranges. So automatically add the ST_FLAG_NUMBER flag to range Reference: https://github.com/networkupstools/-nut/issues/267
- drivers/dstate.c: Support ST_FLAG_NUMBER in dstate_setflags() Allow the drivers to explicitly use ST_FLAG_NUMBER through dstate_setflags() Reference: https://github.com/networkupstools/nut/issues/267
- include/extstate.h: Add an explicit type NUMBER (ST_FLAG_NUMBER) Beside from the existing ST_FLAG_STRING, a need has arise to have an explicit type NUMBER, and thus a flag for this type, can be used generally, and more specifically with the driver primitive dstate_setflags() Reference: https://github.com/networkupstools/nut/issues/267

2.1622 2016-08-12 Arnaud Quette <arnaud.quette@free.fr>

- drivers/libusb1.c: libusb 1.0: remove unused typesafe_control_msg() workaround For libusb 0.1 implementation, we had to workaround a libusb API goofs, by wrapping the base function usb_control_msg(), and casting the variables to the right type. This is not needed for libusb 1.0 implementation, but was wrongly left in the code (reported by Charles Lepple)

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- clients/upsrw.c: upsrw: display current values of NUMBER variables References: https://github.com/networkupstools/nut/-issues/267
- drivers/snmp-ups.c: snmp-ups: discard decimals when set to "0" Publish values as integer when decimals are set to "0". This at least makes sense for some values that are real integers (phases and outlets counts for example), but also with many other values that have not sufficient precision to provide decimals

2.1623 2016-08-11 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bcmxcp_usb.c: bcmxcp_usb: fix a warning on unused variable
- drivers/bcmxcp_usb.c, drivers/libusb1.c, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c: libusb 1.0 port: simplify bus publication bus publication was wrongly listing both the bus and the portname, instead of the bus only. This may have caused some issue when trying to match the port
- drivers/usbhid-ups.c: usbhid-ups/mge-shut: forgotten version bump
- drivers/usbhid-ups.c: usbhid-ups/mge-shut: rework errno/errors handling libusb 1.0 has its own set of return codes, and error interface. Rework the common HID core (shared between usbhid-ups and mge-shut) so that error handling can work with both, and using either libusb 0.1 or 1.0 for usbhid-ups
- tools/nut-scanner/scan_usb.c: nut-scanner: missing symbols lookup for libusb 1.0 A few symbols from libusb 1.0 were wrongly used directly, instead of being looked up and loaded at init time
- drivers/bcmxcp_usb.c, drivers/libusb1.c, drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c: libusb 1.0 port: add missing libusb_exit() calls
- tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_usb.c, tools/nut-usbinfo.pl: nut-scanner: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- drivers/nutdrv_atcl_usb.c, drivers/richcomm_usb.c: Remove redundant variable
- drivers/tripplite_usb.c: tripplite_usb: remove extraneous comment char
- drivers/nut_libusb.h: permute typedef order of usb_dev_handle
- drivers/nutdrv_qx.c: nutdrv_qx: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
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- drivers/riello_usb.c: riello_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
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- drivers/riello_usb.c: riello_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices

2.1624 2016-08-10 Arnaud Quette <arnaud.quette@free.fr>

- drivers/richcomm_usb.c: richcomm_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: add the missing detach call libusb 1.0 provide its own routine for detaching kernel driver
- drivers/Makefile.am, drivers/libhid.c, drivers/nut_libusb.h: Forgotten occurences of libusb.h renaming NUT internal header "libusb.h" was renamed, since it collides with the libusb 1.0 header, which has the same name. A few occurences of reference and documentation were however missing
- drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- drivers/blazer_usb.c: blazer_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- drivers/bcmxcp_usb.c: bcmxcp_usb: code cleanup
- drivers/richcomm_usb.c: richcomm_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
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- drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: add the missing detach call libusb 1.0 provide its own routine for detaching kernel driver
- drivers/Makefile.am, drivers/libhid.c, drivers/nut_libusb.h: Forgotten occurences of libusb.h renaming NUT internal header "libusb.h" was renamed, since it collides with the libusb 1.0 header, which has the same name. A few occurences of reference and documentation were however missing
- drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- drivers/blazer_usb.c: blazer_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- drivers/bcmxcp_usb.c: bcmxcp_usb: code cleanup

2.1625 2016-08-09 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bcmxcp_usb.c: bcmxcp_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- docs/configure.txt, drivers/Makefile.am, drivers/libhid.c, drivers/libhid.h, drivers/{libusb.c ⇒ libusb0.c}, drivers/libusb1.c, drivers/{libusb.h ⇒ nut_libusb.h}, drivers/usb-common.h, drivers/usbhid-ups.c: ushid-ups: complete the port to libusb 1.0 The port to libusb 1.0 is now complete for usbhid-ups. Other USB drivers (bcmxcp_usb, blazer_usb, nutdrv_atcl_usb, richcomm_usb, riello_usb, tripplite_usb, nutdrv_qx) have still to be addressed
- drivers/bcmxcp_usb.c: bcmxcp_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- docs/configure.txt, drivers/Makefile.am, drivers/libhid.c, drivers/libhid.h, drivers/{libusb.c ⇒ libusb0.c}, drivers/libusb1.c, drivers/{libusb.h ⇒ nut_libusb.h}, drivers/usb-common.h, drivers/usbhid-ups.c: ushid-ups: complete the port to libusb 1.0 The port to libusb 1.0 is now complete for usbhid-ups. Other USB drivers (bcmxcp_usb, blazer_usb, nutdrv_atcl_usb, richcomm_usb, riello_usb, tripplite_usb, nutdrv_qx) have still to be addressed
- drivers/bcmxcp_usb.c: bcmxcp_usb: initial port to libusb 1.0 The port to libusb 1.0 is complete, at least from a build perspective. This now needs to be tested with devices
- docs/configure.txt, drivers/Makefile.am, drivers/libhid.c, drivers/libhid.h, drivers/{libusb.c ⇒ libusb0.c}, drivers/libusb1.c, drivers/{libusb.h ⇒ nut_libusb.h}, drivers/usb-common.h, drivers/usbhid-ups.c: ushid-ups: complete the port to libusb 1.0 The port to libusb 1.0 is now complete for usbhid-ups. Other USB drivers (bcmxcp_usb, blazer_usb, nutdrv_atcl_usb, richcomm_usb, riello_usb, tripplite_usb, nutdrv_qx) have still to be addressed

2.1626 2016-08-06 Jim Klimov <jim@jimklimov.com>

- docs/man/dummy-ups.txt: dummy-ups.txt : noted the sleep between loops
- docs/man/dummy-ups.txt: dummy-ups.txt : text and formatting revised to be clearer to the uninitiated

2.1627 2016-08-04 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/snmp-ups.txt: snmp-ups: document the use of non-standard port SNMP agent may publish data over a non-standard port, i.e. not 161. This feature is supported since the origin, but was not explicitly documented nor usable

2.1628 2016-08-01 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac, m4/nut_check_libusb.m4: Initial port to libusb 1.0 Starting with the configure checks, to detect if libusb 1.0 if available, and otherwise fall back to the libusb 0.1 backend
- configure.ac, m4/nut_check_libusb.m4: Initial port to libusb 1.0 Starting with the configure checks, to detect if libusb 1.0 if available, and otherwise fall back to the libusb 0.1 backend
- configure.ac, m4/nut_check_libusb.m4: Initial port to libusb 1.0 Starting with the configure checks, to detect if libusb 1.0 if available, and otherwise fall back to the libusb 0.1 backend

2.1629 2016-07-12 Carlos Dominguez <cdominguezm@gmail.com>

- common/common.c, include/common.h, tools/nut-scanner/nutscan-init.c: Arnaud's patch applied, dynamic library bug fixed, tested!

2.1630 2016-07-11 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: fix device.type publication In daisychain mode at least, device.type was not set to its actual value, using the current mapping structure, but defaulting to "ups" (reported by Tomas Halman, from Eaton)
- drivers/snmp-ups.c: snmp-ups: fix and improve match_sysoid The function was returning FALSE instead of NULL in one case. Also retry at most 3 times to get the sysOID

2.1631 2016-07-07 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: fix instant commands publication With non-daisychain setup, there was a bug that created an infinite test loop when trying to add instant commands

2.1632 2016-07-04 Arnaud Quette <arnaud.quette@free.fr>

- common/common.c, include/common.h, tools/nut-scanner/nutscan-init.c: Move get_libname() to common This function, originally created for nut-scanner, to be able to lookup for libraries loaded using libtool loader, is now also useful for the DMF support. This last loads libneon at runtime, to load DMF structure (including the one for nut-scanner) and unload it once the file were read

2.1633 2016-07-04 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nut-scanner.txt: comment about debugging level for troubleshooting Originates from commit 951f8f8b3 by Date: Mon Jul 4 16:27:29 2016 \+0200

2.1634 2016-06-30 Tomas Halman <TomasHalman@eaton.com>

- clients/nutclient.cpp: nutclient: fix library segmentation fault if device name doesn't exists. If device doesn't exist, getClient() returns NULL. Then calling the method like getClient()→getDeviceDescription(getName()) causes segfault. We rather check the status and throw an exception in this case.

2.1635 2016-06-25 Charles Lepple <clepple+nut@gmail.com>

- docs/acknowledgements.txt: doc: fix acknowledgements link to GitHub

2.1636 2016-06-23 Timothy Pearson <kb9vqf@pearsoncomputing.net>

- drivers/libhid.c, drivers/tripplite-hid.c, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.rules: Add support for SU3000LCD2UHV Note that protocol 1330 does not respond to requests for UPS.OutletSystem.Outlet.DelayBeforeReboot, therefore those requests needed to be bypassed in the driver.

2.1637 2016-06-23 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-xml.c: netxml-ups: detect the unsupported XML v4 protocol The XML/PDC protocol had an update with version 4, for ePDU. However, this version is not supported by netxml-ups. We now detect this version, and explicitly exit with an "XML v4 protocol is not supported!" message
- drivers/netxml-ups.c: netxml-ups: fix a segmentation fault netxml_get_page() was not checking if page is NULL, hence resulting in a segmentation fault with Eaton ePDU, which use the unsupported version 4 of the XML/PDC protocol. Bump the driver version to 0.41

2.1638 2016-06-13 Tomas Halman <TomasHalman@eaton.com>

- clients/nutclient.cpp: NUT client library: internal::Socket class must close socket in destructor.

2.1639 2016-06-09 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: 2nd pass on fixing memory leaks Fix some remaining memory leaks reported by Coverity scan
- drivers/snmp-ups.c: snmp-ups: fix memory leaks and incorrect expression Following the registration of NUT in Coverity scan, a number of issues were identified. This is the very first set of QA fixes related to this static code analysis

2.1640 2016-06-08 Arnaud Quette <arnaud.quette@free.fr>

- Makefile.am: AIX package: reference the exact tarball version

2.1641 2016-06-07 Charles Lepple <clepple+nut@gmail.com>

- docs/download.txt: Update VMware ESXi package link (from René Garcia)

2.1642 2016-06-07 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: fix some regression due to daisychain A few issues were remaining, following the daisychain support addition. Issues were related to, at least, 3ph initialization and data not being published, and identified with Eaton 3ph units, using the "pw" MIB (reported by Yves Clauzel, from Eaton)

2.1643 2016-06-05 Timothy Pearson <kb9vqf@pearsoncomputing.net>

- drivers/powerp-txt.c: Add deep battery test for CyberPower OL3000RMXL2U

2.1644 2016-05-31 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: support daisychain commands and settings Daisychain commands and settings on subdevices are now supported. Since 95% of the code of these two functions was similar, a new function called su_setOID() was created, and is now called by su_setvar and su_instcmd. This new function is also daisychain-aware
- drivers/dstate.c: dstate: adapt daisychain devices functions For daisychain devices, we increase the counter when alarms are present on a subdevice, but don't decrease the count when the buffer is empty. Otherwise, we may not get the ALARM flag in ups.status, while there are some alarms present on device.X
- drivers/eaton-mib.c: snmp-ups: fix input.L2.voltage on Eaton G2/G3 PDU This data entry was missing the daisychain formatting directive, which resulted in this data not being published (reported by Vyskocil Michal from Eaton)

2.1645 2016-05-27 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: fix regression related to daisychain Fix a few regression with unitary devices, related to the daisychain changes of the SNMP core engine
- drivers/dstate.c: dstate: enforce underflow to not generate false alarm The newly introduced daisychain mechanism, with alarm counters (not just boolean) introduced a potential underflow on alarm_commit, which resulted in false positive "ALARM" flag publication in ups.status

- drivers/snmp-ups.c: snmp-ups: update for daisychain Update the daisychain implementation, as per the latest specification, including considerations on "device.0". Alarms are also handled for the daisychain devices. Initial code for settings and commands is also present, but will be completed in subsequent commits, along with a final cleanup and potential composite settings and commands on "device.0" (that are then applied to all daisychain devices)
- drivers/eaton-mib.c: snmp-ups: fix some daisychain data for Eaton PDU Some data (outlet.%i.current, outlet.%i.power, outlet.%i.load.{off,on,cycle} and outlet.group.%i.load.{off,on,cycle}) were missing the daisychain formatting string, and were hence not published
- docs/daisychain.txt, drivers/dstate.c, drivers/dstate.h: dstate: add functions to address daisychain alarms Add 2 new functions, device_alarm_init() and device_alarm_commit(), to address daisychain devices: these acts as the standard alarm_{init,commit}, but only clearing / committing the alarm buffer, and not reinitializing the main alarm counter. Hence, the "device.0" (whole daisychain) knows if it has to publish the "ALARM" flag in ups.status

2.1646 2016-05-25 Jim Klimov <jim@jimklimov.com>

- drivers/powerware-mib.c: powerware-mib - renamed "ietf_*" and "eaton_*" lookups to have "pw_*" prefix
- drivers/raritan-px2-mib.c: raritan-px2-mib - renamed lookups to have "raritanpx2_*" prefix
- drivers/raritan-pdu-mib.c: raritan-pdu-mib - renamed lookups to have "raritan_pdu_*" prefix
- drivers/powerware-mib.c: powerware-mib - renamed "ietf_*" and "eaton_*" lookups to have "pw_*" prefix
- drivers/baytech-mib.c: baytech-mib - renamed "outlet_status_info" lookup to "baytech_outlet_status_info"
- drivers/apc-ats-mib.c: apc-ats-mib.c- renamed "ats_*" lookups to "apc_ats_*"
- drivers/huawei-mib.c: huawei-mib - renamed lookups to have "huawei_*" prefix (cherry picked from commit fd29f32b2837588518ec7

2.1647 2016-05-25 Arnaud Quette <arnaud.quette@free.fr>

- docs/new-drivers.txt: daisychain: add a reference for drivers and alarms
- docs/daisychain.txt: daisychain: update specification for alarms handling
- drivers/eaton-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: daisychain update, fix and completion Following the specification update on "device.0" consideration, adapt the current implementation. For now, the whole daisychain will only publish device.{mfr,model,count}. Initial support for settings and commands was also added, and will be expanded to "device.0"
- docs/daisychain.txt: daisychain: update and fix specification
- docs/daisychain.txt: daisychain: update specification as per discussion

2.1648 2016-05-23 Jim Klimov <jim@jimklimov.com>

- drivers/mge-mib.c: mge-mib.c : rename rogue ietf_* lookups to mge_*

2.1649 2016-05-23 Arnaud Quette <arnaud.quette@free.fr>

- docs/Makefile.am, docs/daisychain.txt, docs/developer-guide.txt, docs/user-manual.txt: daisychain documentation: fix documentation building The daisychain documentation was missing from the build rules, and from the documentation integration, which resulted in documentation build being broken (reported by Charles Lepple). As a side note, the documentation (both user and developer) will need some update and cleanup, now that there is more content Closes: https://github.com/networkupstools/-nut/issues/291
- drivers/eaton-mib.c: snmp-ups: Eaton Aphel Revelation updates Update Eaton Aphel Revelation MIB mapping, by fixing outlets switchability publication and adding "device.revision". This last data still has to be submitted as an RFC for extending NUT variables namespace

2.1650 2016-05-19 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: fix daisychain regression A bug was discovered with the new daisychain code and non-daisychained device, resulting in data not being published

2.1651 2016-05-18 Jim Klimov <jim@jimklimov.com>

- Makefile.am: root Makefile.am : clone "make distcheck-light" in a new target "make distcheck-light-man" to specifically only want docs=man

2.1652 2016-05-18 Arnaud Quette <arnaud.quette@free.fr>

- drivers/compaq-mib.c, drivers/ietf-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/powerware-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: daisychain handling of 1ph / 3ph phases Per device phases management is now available in daisychain mode, for input, output and bypass. The overall mechanism for phase determination has also changed to something more generic, and not requiring the SU_FLAG_SETINT flag
- drivers/eaton-mib.c: snmp-ups: fix input.phases for Eaton G2 / G3 ePDU The current implementation was using the number of input, not the number of phase(s)

2.1653 2016-05-17 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: initial daisychain support for Eaton PDU Following the base implementation for daisychain support in the SNMP driver core (snmp-ups), add support for daisychain for Eaton PDU. Commands definitions are disabled for now, and will be addressed in a subsequent commit
- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: base daisychain support This commit includes the initial support for daisychain. There are however a number of limitations that still need to be addressed, such as: * {input,output,bypass}.phase handling: for now, mixed / hybrid daisychains are not supported * All devices alarms are pushed to "ups.alarm" without discriminant (i.e. not "device.X" appended to the alarm) * commands and settings are not yet handled * non-regression testing on unitary devices have to be done
- README, docs/outlets.txt, docs/user-manual.txt: Documentation adjustments
- docs/daisychain.txt, docs/nut-names.txt: daisychain: initial specification and documentation
- drivers/mge-hid.c: mge-shut/usbhid-ups: list AEG PROTECT NAS vendor 06da AEG PROTECT NAS were previously using VendorID / ProductID 0x2b2d / 0xffff, and are now using 0x06da / 0xffff. Also bump the mge-hid subdriver version to 1.40

2.1654 2016-05-13 Jim Klimov <jim@jimklimov.com>

- drivers/Makefile.am: snmp and netxml UPSes should have SSL flags/libs if configured? Without the DMF part of original commit e56b0b8bdf818fbf21805fe1cc67ec2c03719062
- drivers/Makefile.am, drivers/apc-iem-mib.h, drivers/apc-mib.c, drivers/apc-mib.h: drivers/apc-iem-mib.h: split some macro definitions away from apc-mib.h and apc-mib.c and snmp-ups.c

2.1655 2016-05-13 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nutupsdrv.txt: Mention explicitly the default pollinterval As in ups.conf manual page, mention the default poll interval, to make it clear

2.1656 2016-05-10 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-qa.txt: NUT QA: add Coverity static code analysis information NUT is now a registered Coverity project, and can thus get static code analysis from it. This is just a first step, and actions are needed to address the actual defects and complete the project configuration. Due thanks to Synopsys, Inc., mother firm of Coverity, for providing this service to Opensource project

2.1657 2016-05-09 Arnaud Quette <arnaud.quette@free.fr>

- drivers/apc-mib.c, drivers/snmp-ups.h: snmp-ups: remove the redundant SU_TYPE_STRING define SU_TYPE_STRING was originally created to expose a required cast to string. However, it is redundant with ST_FLAG_STRING, and not useful in the end. The only subdriver that was using it is apc-mib (UPS support) and this was a no-op
- README: Fix wrong link reference The "NUT outlets management and PDU notes" were wrongly referred to as "Configuring automatic UPS shutdowns

2.1658 2016-05-04 Jim Klimov <jim@jimklimov.com>

- .gitignore, docs/.gitignore: GitIgnore some built documents

2.1659 2016-05-03 Jim Klimov <jim@jimklimov.com>

- configure.ac: configure.ac : prefer "/usr/share/augeas/lenses/dist" over "/usr/share/augeas/lenses" if present
- docs/Makefile.am, docs/man/Makefile.am: Follow-up to NUT PR #281 - notice for the future
- docs/Makefile.am, docs/man/Makefile.am: Revert toxic commit: "a2x says "--destination-dir" is only valid for HTML... so let us reduce complaints reported in build" This reverts commit fe17861c4ea12679b3ebfefa8a6d692d79d99f2d because in fact asciidoc (8.6.9) lies about not supporting the flag, and it is reqired for `ASCIIDOC_VERBOSE=-v make distcheck-light` to pass. So let's keep it complaining but working.
- Makefile.am, configure.ac, scripts/augeas/Makefile.am: Allow "make install" to deliver Augeas lenses into the path defined by configure (defaults to /usr/share/augeas/lenses)

2.1660 2016-05-03 Arnaud Quette <arnaud.quette@free.fr>

- docs/configure.txt: Document Augeas lenses configure option Add documentation on the new configure option --with-augeas-lenses-dir=PATH

2.1661 2016-05-02 Jim Klimov <jim@jimklimov.com>

- docs/Makefile.am, docs/man/Makefile.am: a2x says "--destination-dir" is only valid for HTML... so let us reduce complaints reported in build
- configure.ac: configure.ac : by default, "--with-doc=man=yes" to match legacy expectations, and permit "make dist" out of the box

2.1662 2016-04-26 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c: nut-scanner: Force numeric OIDs resolution Force numeric OIDs resolution (ie, do not resolve to textual names) and disable MIB loading. This is mostly for the convenience of debug and results output
- scripts/subdriver/gen-snmp-subdriver.sh: SNMP subdriver generator: add a FIXME

2.1663 2016-04-16 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in, drivers/mge-hid.c, scripts/upower/95-upower-hid.rules: usbhid-ups: add IBM USB VID Reference: http://article.gm gmane.comp.monitoring.nut.user/7721 and http://news.gmane.org/find-root.php?message_id=5712AB29.6040001%40delphinidae.or

2.1664 2016-04-11 Michal Vyskocil <michalvyskocil@eaton.com>

- drivers/netvision-mib.c: netvision-mib: uses 0 as dfl Change to NULL as other subdrivers does

2.1665 2016-04-11 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/nutscan-init.c: nut-scanner: additional search path Prepend "/usr/" to the provided --libdir, in case this one points at "/lib/..." or similar, and not to "/usr/lib/..."

2.1666 2016-04-09 Émilien Kia <emilien.kia@gmail.com>

- clients/nutclient.cpp: Correctly increment pointer in stringset_to_strarr and stringvector_to_strarr. Fix bug #232
- tests/Makefile.am, tests/nutclienttest.cpp: Create unit test (failing for now) to test bug #232 (nutclient: stringset_to_strarr() and stringvector_to_strarr() only work for one element).
- clients/nutclient.cpp: Make string[set\|vector]_to_strarr public to be accessible to unit tests.
- clients/nutclient.h: Make nut::Client::\~Client virtual. Prevent compilation warning [-Wdelete-non-virtual-dtor].

2.1667 2016-04-08 Jim Klimov <jim@jimklimov.com>

- configure.ac, docs/configure.txt: configure.ac : do not inspect systemdunitdir with pkg-info if we asked not to use it at all

2.1668 2016-04-07 Jim Klimov <jim@jimklimov.com>

- docs/configure.txt, m4/nut_check_libgd.m4, m4/nut_check_libnetsnmp.m4: Allow to customize path to gdlib-config and net-snmp-config programs

2.1669 2016-04-07 Arnaud Quette <arnaud.quette@free.fr>

- drivers/raritan-px2-mib.c: snmp-ups: fix a missing field in raritan_px2 mapping The default value (dfl field) was missing, and thus producing a compilation warning

2.1670 2016-04-06 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, docs/man/snmp-ups.txt, drivers/Makefile.am, drivers/raritan-px2-mib.c, drivers/raritan-px2-mib.h, drivers/snmp-ups.c: snmp-ups: support Raritan Dominion PX2 PDU Based on initial work and data from Opengear, using SNMP subdriver creation script, add support for the more recent Raritan PDU, model PX2. This was tested with a PX2-1486 (Metered Input), but should cover all PX2 models
- scripts/subdriver/gen-snmp-subdriver.sh: SNMP subdriver creation script: minor updates

2.1671 2016-04-03 Alica <alicaccs@yahoo.com.tw>

- conf/upsstats.html.sample: upsstats.html: Conform to HTML 4.01 Strict Closes: https://github.com/networkupstools/nut/pull/-278
- conf/upsstats-single.html.sample: upsstats-single.html: Conform to HTML 4.01 Strict

2.1672 2016-03-24 Kirill Ovchinnikov <kirill@rednoize.su>

- drivers/snmp-ups.c, drivers/snmp-ups.h: Added a feature of power on and power off delay time writing to UPS configuration; Added support of writing "timeticks" values to su_setvar() routine

2.1673 2016-03-23 Michal Vyskocil <michalvyskocil@eaton.com>

- drivers/eaton-mib.c: Bumb version of eaton-mib

2.1674 2016-03-23 Jim Klimov <jim@jimklimov.com>

- configure.ac, docs/configure.txt, docs/man/Makefile.am: Added WITH_MANS support (to toggle generation of manpages) and revised other documentation formats
- configure.ac: Fix "--with-doc=auto" to use present doc-gens * configure.ac : when using "--with-doc" do actually proceed if some supported methods are found and some are not... build what we can on this platform * configure.ac : revised upon peer review : yes==all, default(empty)==no as documented in --help, auto guesser must be explicit

2.1675 2016-03-23 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/snmp-ups.txt, docs/snmp.txt: Fix references to the SNMP section of protocols

2.1676 2016-03-22 Michal Vyskocil <michalvyskocil@eaton.com>

- drivers/snmp-ups.h: snmp-ups: mark SU_FLAG_OK as internal to the driver
- drivers/eaton-mib.c: snmp-ups: add outlet type to Eaton Marlin MIB
- drivers/snmp-ups.h: snmp-ups: enhance documentation of some flags Mark SU_FLAG_OK as deprecated and SU_FLAG_STALE as internal to driver. This helps new developers to write or extend snmp subdrivers.
- docs/nut-names.txt: Document outlet.n.type Add and document outlet.n.type variable, which provides information about physical outlet type.

2.1677 2016-03-22 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac: Remove the extraneous GNU in front of FreeIPMI Messages are now more homogeneous
- docs/configure.txt: Clarify multiple specifier for --with-doc
- docs/configure.txt: Update FreeIPMI requirements The documented requirements were out of date, compared to the tests done at configure time

2.1678 2016-03-19 Charles Lepple <clepple+nut@gmail.com>

- configure.ac: Version to 2.7.4.1 for snapshots

2.1679 2016-03-18 Marty R <martin.p.rowe@gmail.com>

- docs/download.txt: Update OpenWRT package information The previous link is over 5 years old, nut is now maintained in the packages repository on GitHub.

2.1680 2016-03-10 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/Makefile.am: Fix nut-scanner compilation in some environments Following the commits 5187dab (common: add some string-related functions) and e767df5 (common: consolidate some string-related functions), the build rules of nut-scanner were not updated to also use str.c. Since the libcommon.la dependency was still there, some environments managed to build cleanly, while other are failing. Update build dependencies to fix this situation
- drivers/powerware-mib.c: snmp-ups: Eaton 3ph UPS improvements Fix the battery test status reporting, and start to simplify the mapping layout by getting rid of some #define. Also add the following: - battery test result "Unknown" - last battery replacement date (battery.date) - output.voltage thresholds (high and low) and nominal value
- drivers/snmp-ups.c: snmp-ups: add a debug trace on nut_snmp_get_int()

2.1681 2016-03-09 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac: Fix autoreconf on Debian For some reason, Automake doesn't search the current directory correctly when searching for helper scripts, when *nut* is running as a git-submodule, as it is the case with the website repository
- configure.ac: update version to 2.7.4
- drivers/apc-ats-mib.c: snmp-ups: add APC ATS input.source
- drivers/snmp-ups.c: snmp-ups: fix the matching OID tests For both sysOID and classic methods, we used to test one of the two OIDs provided in the mib2nut structures. However, these two OIDs (oid_pwr_status and oid_auto_check) tend to be redundant and confusing. Replace these matching by an extraction of {ups,device}.model
- drivers/nut-libfreeipmi.c: nut-ipmipsu: fix compilation warnings
- NEWS, UPGRADING, docs/FAQ.txt, docs/net-protocol.txt, docs/new-drivers.txt, docs/nut-names.txt, docs/nutdrv_qx-subdrivers.txt, docs/packager-guide.txt, docs/snmp-subdrivers.txt, lib/README, scripts/augeas/README: Fix spelling and typo errors Following the spell-checking scope expansion, do a spell-checking pass
- docs/documentation.txt: Update documentation as per the new devices scope
- docs/features.txt, docs/user-manual.txt: Update documentation as per the new devices scope
- docs/Makefile.am: Expand spell-checking scope Add more documents, outside of the docs/ directory Closes: https://github.com/-networkupstools/nut/issues/222

2.1682 2016-03-08 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac, tools/Makefile.am, tools/driver-list-format.sh: Check driver.list[.in] format at make dist time Instead of checking driver.list.in at configure time, move the checking and modification into a script that is called at make dist time. The script can also be called manually, and will try to fix both driver.list.in and driver.list

2.1683 2016-03-07 Arnaud Quette <arnaud.quette@free.fr>

- drivers/powerware-mib.c: Remove an erroneous test This was made test the enumerated values registration in snmp-ups, and should not have been committed
- data/driver.list.in: HCL: APC ATS AP7724 supported by snmp-ups These Automatic Transfer Switch should be supported by snmp-ups, however this was not tested at all Reference: https://github.com/networkupstools/nut/issues/260
- NEWS, UPGRADING: Update for release 2.7.4
- drivers/Makefile.am, drivers/apc-ats-mib.c, drivers/apc-ats-mib.h, drivers/snmp-ups.c: snmp-ups: support APC Automatic Transfer Switch Following the recent extension of NUT scope and variable namespace, to support Automatic Transfer Switch (ATS), implement SNMP support for APC ATS (with help from "maaboo" through github) Reference: https://github.com/-networkupstools/nut/issues/260

2.1684 2016-03-04 Arnaud Quette <arnaud.quette@free.fr>

- drivers/baytech-mib.c, drivers/bestpower-mib.c, drivers/compaq-mib.c, drivers/cyberpower-mib.c, drivers/eaton-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/powerware-mib.c, drivers/raritan-pdu-mib.c: snmp-ups: fix mib2nut structures Non existent OIDs, for testing MIB selection, must be expressed as NULL and not as empty string ("") for the algorithm to work

2.1685 2016-03-03 Daniele Pezzini <hyouko@gmail.com>

- docs/download.txt: docs: update several download links

2.1686 2016-03-03 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/upsrw.txt, docs/net-protocol.txt: Clarification on NUMBER type float values Clarify a bit more documentation on how to express float values, when using upsrw. That is to say, using decimal (base 10) english-based representation, so using a dot, in non-scientific notation. So hexadecimal, exponents, and comma for thousands separator are forbiden
- clients/upsrw.c, docs/net-protocol.txt, server/netget.c: Prefer NUMBER to NUMERIC for variable type As per discussion on the Github pull request, NUMBER would be more suitable than NUMERIC

2.1687 2016-03-02 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: HCL: added Eaton Powerware 9125-5000g Supported with the additional USB card, with the bcmxcp_usb driver
- docs/man/upsrw.txt, docs/net-protocol.txt: Clarification on NUMERIC type float values Clarify documentation on how to express float values, when using upsrw. That is to say, using decimal english-based representation, so using a dot
- drivers/mge-xml.c: netxml-ups: fix Eaton XML published data Some raw protocol data were wrongly published, and are now commented. Also add some R/W flags to ambient thresholds Closes: https://github.com/networkupstools/nut/issues/201
- tools/nut-scanner/nut-scanner.c: nut-scanner: fix thread attachment Add a test to have the right thread waiting for the scan to be complete (patch from Michal Hlavinka, Red Hat)
- configure.ac, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_r tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: nut-scanner: don't depend on development libraries nut-scanner was previously trying to use directly libXXX.so (libusb-0.1, libfreeipmi, libnetsnmp, libavahi-client, libneon, libupsclient}. However, these files are generally provided by the development packages. nut-scanner now tries to look at some known paths, including the one provided through --libdir, to find the correct libraries Closes: https://github.com/networkupstools/nut/issues/233

2.1688 2016-03-01 Arnaud Quette <arnaud.quette@free.fr>

- clients/upsrw.c, docs/net-protocol.txt, server/netget.c: Default to type NUMERIC for variables Any variable that is not STRING, RANGE or ENUM is just a simple numeric value. The protocol documentation (net-protocol.txt) was previously stating that "The default <type>, when omitted, is integer." which was not fully true, since a variable could also be a float. Hence, the wording was changed to advertise this, and that each driver is then responsible for handling values as either integer or float. Moreover, instead of returning a TYPE "UNKNOWN", return "NUMERIC", which is more suitable, and aligned with the NUT protocol specification
- tools/nut-snmpinfo.py: SNMP subdriver generator: fix output formatting
- tools/nut-snmpinfo.py: SNMP subdriver generator: discard commented lines Discard any commented mib2nut_info_t declaration, which should thus not be taken into account

2.1689 2016-02-26 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/Makefile.am, drivers/eaton-ats-mib.c, drivers/eaton-ats-mib.h, drivers/snmp-ups.c: snmp-ups: support Eaton Automatic Transfer Switch Following the recent extension of NUT scope and variable namespace, to support Automatic Transfer Switch (ATS), implement SNMP support for Eaton ATS. Note that this device can also be supported through Eaton XML/PDC (XML over HTTP) protocol, supported by the NUT netxml-ups driver
- data/cmdvartab, docs/nut-names.txt: Extend namespace for Automatic Transfer Switch (ATS) Extend NUT namespace to support a new type of power device: ATS - Automatic Transfer Switch. These devices are used to setup 2 power systems, such as UPS, to power a single power supply system, and be able to automatically transfer between the input sources in case of failure of the primary one. The added variable are for now limited to *input.source* and *input.source.preferred*, but may be extended if needed

2.1690 2016-02-25 C Fraire <cfraire@me.com>

- docs/scheduling.txt: Fix docs location of upssched to sbin

2.1691 2016-02-25 Arnaud Quette <arnaud.quette@free.fr>

- scripts/subdriver/gen-snmp-subdriver.sh: snmp-ups: add the last missing element in the structure
- drivers/apc-mib.c, drivers/bestpower-mib.c, drivers/compaq-mib.c, drivers/cyberpower-mib.c, drivers/delta_ups-mib.c, drivers/huawei-mib.c, drivers/ietf-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/powerware-mib.c, drivers/xppc-mib.c, scripts/subdriver/g snmp-subdriver.sh: snmp-ups: fix values lookup terminating element The terminating element should really be NULL, and not the string "NULL", as it was originally done, back in 2002
- drivers/snmp-ups.c: snmp-ups: revert order of the NULL/"NULL" test Fix a segfault when doing first the string comparison test
- drivers/snmp-ups.c: snmp-ups: register values enumerations Whenever there is a values lookup structure for read/write data, push the values as enumerations for upsrw
- drivers/snmp-ups.c: snmp-ups: try to lookup values for numeric elements Numeric elements can also use the value resolution mechanism
- drivers/snmp-ups.c: snmp-ups: counter test sysOID with a test OID Some devices have buggy sysOID exposed. Allow to counter test another OID, to be able to select between different mapping structures

2.1692 2016-02-24 Arnaud Quette <arnaud.quette@free.fr>

- scripts/subdriver/gen-snmp-subdriver.sh: SNMP subdriver creation script: allow sysOID override Allow to use -s to override buggy sysOID in some device FW. In this case, the sysOID entry in the mib2nut structure should be set to NULL

2.1693 2016-02-11 Arnaud Quette <arnaud.quette@free.fr>

- drivers/raritan-pdu-mib.c: snmp-ups: fix macaddr support for Raritan PDU Raritan MIB was fixed to expose macaddr on device.macaddr instead of ups.macaddr
- drivers/baytech-mib.c: snmp-ups: fix macaddr support for Baytech PDU Baytech MIB was fixed to expose macaddr on device.macaddr instead of ups.macaddr
- drivers/eaton-mib.c: snmp-ups: fix and complete macaddr support for Eaton Eaton G2 and G3 can now expose the MAC address of the device, using device.macaddr. Eaton G1 Aphel was fixed to expose this data on device.macaddr instead of ups.macaddr
- drivers/snmp-ups.c: snmp-ups: add support for hexadecimal octet strings

- drivers/snmp-ups.c: snmp-ups: fallback for classic MIB detection If the sysOID matching has failed, then snmp-ups uses ups.model to get an OID to test. In case ups.model is not available, fallback to trying to use device.model instead
- docs/images/nut_layering.png, docs/images/nut_layering.svg: Refresh and complete NUT architecture diagram

2.1694 2016-02-08 Arnaud Quette <arnaud.quette@free.fr>

- drivers/powerware-mib.c: snmp-ups: extend Eaton 3ph outputSource values map Add the new status values for xupsOutputSource (.1.3.6.1.4.1.534.1.4.5.0), that maps to both ups.status and ups.type

2.1695 2016-02-03 Arnaud Quette <arnaud.quette@free.fr>

- drivers/powerware-mib.c: snmp-ups: improve support for Eaton 3ph Improve support for temperature and humidity data, including: - ups.temperature now available - fixing ambient.temperature (previously pointing at a wrong OID) - ambient.humidity now available - the following settings now available: * ups.temperature.low * ups.temperature.high * ambient.humidity.high
- ambient.humidity.low * ambient.temperature.high * ambient.temperature.low

2.1696 2016-02-01 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: various APCUPSD-controlled APC devices via apcupsd-ups Originally reported by GitHub user @Thermionix. Reference: https://github.com/networkupstools/nut/pull/215

2.1697 2016-01-31 Charles Lepple <clepple+nut@gmail.com>

- docs/man/nutdrv_atcl_usb.txt: man/nutdrv_atcl_usb: point to nutdrv_qx (fuji) for 0001:0000 Also update best guess for the USB-to-serial converter situation.
- docs/FAQ.txt: FAQ: udevadm for fixing permissions

2.1698 2016-01-30 Charles Lepple <clepple+nut@gmail.com>

- drivers/nut-libfreeipmi.c: FreeIPMI: do not split function arguments with a conditional Alternate approach to suggestion by Romero B. de S. Malaquias Closes: https://github.com/networkupstools/nut/pull/250

2.1699 2016-01-24 Charles Lepple <clepple+nut@gmail.com>

- docs/config-notes.txt: Documentation: fix formatting Put syntax examples in verbatim mode, and remove spaces from ends of lines.
- drivers/apc-hid.c: usbhid-ups: handle missing USB strings in APC code Closes: https://github.com/networkupstools/nut/-issues/258 Might fix: https://bugs.launchpad.net/ubuntu/\\+source/nut/\\+bug/1483615

2.1700 2016-01-23 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: added NHS Laser Senoidal 5000VA Source: http://article.gmane.org/gmane.comp.monitoring.nut.devel/-7123 Closes: https://github.com/networkupstools/nut/issues/254

2.1701 2016-01-14 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: fix staleness detection With some ePDUs or devices using template for outlet and outlet.group, communication loss with the device were not detected, due to the handling mechanism. Simply skipping commands for templates, after the init time, is sufficient to avoid this issue

2.1702 2016-01-05 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: improve stale communication recovery Disable the 10 iterations to retry communicating with stale device. This was leading up to 10 x 30 seconds, so 5mn, before being able to get data again
- docs/new-drivers.txt, docs/nut-names.txt: Document battery.charger.status This will in time replace the historic CHRG and DISCHRG flags published in ups.status. Closes https://github.com/networkupstools/nut/issues/196

2.1703 2016-01-04 Arnaud Quette <arnaud.quette@free.fr>

- drivers/ietf-mib.c, drivers/ietf-mib.h, drivers/snmp-ups.c: snmp-ups: add support for Tripplite units on IETF mib These devices expose ".1.3.6.1.4.1.850.1", which could be supported through this specific MIB. For now, just link that to the IETF MIB, to provide a first level of support Reference: https://github.com/networkupstools/nut/issues/171

2.1704 2016-01-03 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Sweex model P220 via blazer_usb Reference: https://github.com/networkupstools/nut/issues/251

2.1705 2015-12-30 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac: First stab at checking driver.list.in format

2.1706 2015-12-29 Charles Lepple <clepple+nut@gmail.com>

- scripts/upower/95-upower-hid.rules: upower: update for AEG

2.1707 2015-12-29 Arnaud Quette <arnaud.quette@free.fr>

- docs/config-notes.txt: Add a complementary note on Windows and serial ports
- conf/ups.conf.sample, docs/man/ups.conf.txt: Document serial port naming on Windows Addressing serial port on Windows system requires to express the port in ups.conf in a special way Reference: https://github.com/networkupstools/nut/issues/198
- drivers/powercom.c: Fix the processing of output voltage for KIN units The processing of output voltage requires to also take into account the line voltage, as reported by Patrik Dufresne. This may still need some further adjustments Reference: https://github.com/networkupstools/nut/issues/187
- drivers/powercom.c: Fix the processing of input voltage for KIN units The processing of input voltage requires to also take into account the line voltage, as reported by Patrik Dufresne. Also bump the driver version to 0.16, since 0.15 was already used, but not set Reference: https://github.com/networkupstools/nut/issues/187
- drivers/mge-hid.c: Fix letter case for AEG USB VendorID The letter case of this VendorID may be important for generated files, such as the udev ones (reported by Charles Lepple)

2.1708 2015-12-28 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/mge-hid.c: HCL: AEG PROTECT B / NAS supported by usbhid-ups Reference: https://github.com/-networkupstools/nut/issues/249

2.1709 2015-12-17 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: Legrand Keor Multiplug supported by nutdrv_qx Reference: https://github.com/networkupstools/nut/-issues/248

2.1710 2015-12-09 Andrey Jr. Melnikov <temnota.am@gmail.com>

- drivers/bcmxcp_usb.c: Don't call usb_close() after reset

2.1711 2015-12-08 Andrey Jr. Melnikov <temnota.am@gmail.com>

- drivers/bcmxcp_usb.c: Call usb_reset() when driver unable to claim device
- drivers/bcmxcp.h, drivers/bcmxcp_usb.c: Refactor get_answer() routine, make it properly deal with multi-packets responses. Lower stack usage.

2.1712 2015-11-22 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: increase timeouts in *sgs* USB subdriver Apparently the previously used timeouts in the *sgs* USB subdriver were not always enough, so increase them.

2.1713 2015-11-11 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: various TS Shara UPSes supported by nutdrv_qx Protocol: *megatec* USB subdriver: *sgs*
- drivers/nutdrv_qx.c: nutdrv_qx: make sure *sgs* USB subdriver uses only what it reads Since, in *sgs* USB subdriver, we read only 8 bytes at a time and we expect the first byte to tell us the length of the data that follows, make sure we don't use more than what we read from the device in case the first byte is not what we expect it to be.

2.1714 2015-11-10 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Electrys UPS 2500 (nutdrv_qx and blazer_ser) Closes https://github.com/networkupstools/nut/issues/-241
- data/driver.list.in: HCL: Eaton E Series DX UPS 1-20 kVA uses blazer_ser Closes https://github.com/networkupstools/nut/-issues/238

2.1715 2015-11-09 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: add number of outlets in Eaton ePDU groups
- docs/nut-names.txt: Add a variable for the number of outlets in a group Added *outlet.group.n.count* which provides the number of outlets in the outlet group *n*

2.1716 2015-11-06 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx_voltronic-qs.c: nutdrv_qx: update *voltronic-qs* subdriver Since, for devices supported by *voltronic-qs* subdriver, in reality: - invalid commands or queries are echoed back, - accepted commands are followed by action without any further reply, update the subdriver interface accordingly. Also: - change slightly the way we publish protocol as ups.firmware.aux, - update F's reply examples and some info_type (ratings; output.frequency) in QX to NUT table to reflect reality, - increase version number.

2.1717 2015-10-19 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx_voltronic-qs-hex.c: nutdrv_qx: improve *T* protocol support in *voltronic-qs-hex* subdriver Since the last byte of the reply to the QS query (before the trailing CR) of devices that implement the *T* protocol holds in reality ratings informations (nominal output frequency/voltage and nominal battery voltage) in its bits, change the *voltronic-qs-hex* subdriver accordingly. Also: - change slightly the way we publish protocol as ups.firmware.aux, - increase version number.
- drivers/nutdrv_qx_voltronic-qs-hex.c: nutdrv_qx: simplify {in,out}put voltage conversion in *voltronic-qs-hex* In *voltronic-qs-hex* subdriver, instead of calculating separately the fractional and integer part of input and output voltage, do it at once. Also, increase version number.
- drivers/nutdrv_qx_voltronic-qs-hex.c: nutdrv_qx: improve protocol identification in *voltronic-qs-hex* Since *V* protocol, in reality, never happens to use the encoded version of the reply to the QS query, but it always uses the plain version already implemented in *voltronic-qs* subdriver, remove it from the identification process of *voltronic-qs-hex* subdriver. Also, remove some non-significant entries from the testing table and increase version number.
- drivers/nutdrv_qx_voltronic-qs-hex.c: nutdrv_qx: harmonize declarations/definitions in *voltronic-qs-hex* In *voltronic-qs-hex* subdriver, the scope of support functions is limited to the subdriver as rightly stated in forward declarations, so correct their definitions to reflect that. Also, increase version number.

2.1718 2015-10-09 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-qa.txt: Reference Black Duck OpenHUB in QA documentation Closes nut#192

2.1719 2015-10-08 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: also use *func* for additional traces
- drivers/powerware-mib.c: powerware-mib: more comments for RFC device.event Add more comments on the need to RFC device.event for some data that are currently published under ups.alarm
- drivers/powerware-mib.c: snmp-ups: improve Eaton 3-phase UPS alarms reporting Eaton 3phase UPS, using the Powerware MIB, can expose many new alarms. Also use the standard driver "X.YY" versioning, and bump subdriver release to "0.85"
- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: fix and improve the ups.alarms mechanism This mechanism allows to walk a subtree (array) of alarms, composed of OID references. The object referenced should not be accessible, but rather when present, this means that the alarm condition is TRUE. Both ups.status and/or ups.alarm values can be provided
- drivers/snmp-ups.c: snmp-ups: fix on some snprintf calls Some snprintf calls are using dynamically allocated variables, which doesn't work with sizeof
- drivers/snmp-ups.c: snmp-ups: use *func* in debug messages
- drivers/snmp-ups.c: snmp-ups: nut_snmp_get_oid() returns TRUE on success
- drivers/snmp-ups.c: snmp-ups: only use snprintf calls instead of sprintf
- drivers/eaton-mib.c, drivers/snmp-ups.c: snmp-ups: simplify handling of other alarms outlet, outlet groups and phase alarms are now using a simplified approach that does not require specific lookup structure to adapt alarm messages. This applies to Eaton ePDU G2/G3

2.1720 2015-10-06 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: LYONN CTB-800V supported by nutdrv_qx Protocol: *voltronic-qs-hex* Reference: https://github.com/-networkupstools/nut/pull/230

2.1721 2015-10-06 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Asium P700, Micropower LCD 1000 and Eaton 5E1100iUSB

2.1722 2015-09-28 Arnaud Quette <arnaud.quette@free.fr>

- docs/new-drivers.txt: Fix spacing error

2.1723 2015-09-22 Charles Lepple <clepple+nut@gmail.com>

- drivers/solis.c, drivers/solis.h: solis: remove additional warnings The "Waiting" flag is always zero, and several other variables were not used.
- drivers/solis.c, drivers/solis.h: solis: clean up warnings Comment out unused constants, and add *static* and *const* wherever possible.

2.1724 2015-09-22 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: fix a typo error in debug message Unknown is spelled with an ending N (reported by Evgeny "Jim" Klimov, from Eaton)
- drivers/snmp-ups.c: snmp-ups: optimize phase number extraction efficiency Since we know that we are processing an alarm for a phase "Lx", don't use strchr, but simply index (reported by Evgeny "Jim" Klimov, from Eaton)
- docs/nut-names.txt, drivers/eaton-mib.c: snmp-ups: use dash-separator for out-of-range For the sake of coherence with other status relative to thresholds, "out of range" frequency status now also use dash as separator, instead of space
- drivers/eaton-mib.c: Fix a spelling error in comments
- drivers/eaton-mib.c: snmp-ups: fix a typo error on Eaton ePDU G2/G3 MIB Critical is really spelled critical, and not cricital, as used in the various status thresholds value-lookup structures (reported by Evgeny "Jim" Klimov, from Eaton)
- data/cmdvartab: Mention the unit for ambient humidity information Add an explicit mention that ambient information related to humidity use the "(percent)" unit
- data/cmdvartab, docs/nut-names.txt: Mention the unit for input voltage information Add an explicit mention that input information related to voltage use the "Volts (V)" unit
- data/cmdvartab: Mention the unit for ambient temperature information Add an explicit mention that ambient information related to temperature use the "degrees C" unit

2.1725 2015-09-20 Charles Lepple <clepple+nut@gmail.com>

- drivers/Makefile.am, drivers/solis.c: solis: math fixes As mentioned here: https://github.com/networkupstools/nut/pull/235

2.1726 2015-09-19 bsalvador <bruno.salvador@gmail.com>

- drivers/solis.c, drivers/solis.h: solis: patch for Microsol Back-Ups BZ1200-BR patch for correct reading for Microsol Back-Ups BZ1200-BR (rebased onto solis_debug branch, and cleaned up whitespace. — CFL) Closes https://github.com/networkupstools/-nut/pull/235 and Closes https://github.com/networkupstools/nut/pull/236

2.1727 2015-09-18 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: add outlet group identifier for Eaton ePDU Eaton ePDU can now publish the parent group of each outlet
- docs/nut-names.txt: Extend outlet collection namespace with group ID An outlet can now publish the group to which it belongs to

- drivers/snmp-ups.c: snmp-ups: complete nut_snmp_get_{str,int} These methods now allow to get the value of an OID returned by the source OID (as for the sysOID). In case of failure (non existent OID), the functions return the last part of the returned OID (ex: 1.2.3 ⇒ 3)
- drivers/snmp-ups.c: snmp-ups: create a nut_snmp_get_oid() function This method allows to get the value of an OID which is also an OID (as for the sysOID), without trying to get the value of the pointed OID. This will allow to use nut_snmp_get_{int,str}() the get the value of the pointed OID

2.1728 2015-09-17 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: outlet groups type handling for Eaton ePDU Eaton ePDU can now publish the type of outlet group
- docs/nut-names.txt: Extend outlet group collection namespace with type The type of outlet group can now be published, part of the new outlet.group data collection
- drivers/eaton-mib.c: snmp-ups: outlet groups commands for Eaton ePDU Eaton ePDU can now handle commands outlet groups, including on, off and reboot (cycle)
- drivers/snmp-ups.c: snmp-ups: fix commands handling for outlet groups The su_instcmd() function of snmp-ups is now adapted to support outlet groups
- drivers/eaton-mib.c: Advanced outlets groups alarm handling for Eaton ePDU Eaton ePDU can now handle alarms on outlets groups, for voltage and current, relative to the configured thresholds
- drivers/snmp-ups.c: snmp-ups: improvements for outlet groups and alarms Improve the code for general template management, including outlets and outlets groups for now, and add alarm management for outlet groups, the same way as for outlets

2.1729 2015-09-16 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: snmp-ups: fix set variable for outlet groups The setvar() function of snmp-ups is now adapted to support outlet groups
- drivers/eaton-mib.c: snmp-ups: outlet groups handling for Eaton ePDU Eaton ePDU can now handle outlet groups, including voltage and current (with thresholds and status relative to the configured thresholds), along with power and realpower. A subsequent commit will address the alarms, settings and commands. Bump subdriver version to 0.30
- drivers/snmp-ups.c: snmp-ups: update debug message The template guestimation function name was changed, but the debug message was left with the old function name
- data/driver.list.in, docs/man/snmp-ups.txt, drivers/powerware-mib.c, drivers/powerware-mib.h, drivers/snmp-ups.c: snmp-ups: add Eaton Power Xpert Gateway UPS Card This newer generation of SNMP card is used for BladeUPS or other UPS, and is serving the same XUPS MIB, as in the "pw" subdriver
- scripts/subdriver/gen-snmp-subdriver.sh: Update SNMP subdriver generation script Complete the documentation, by adding some notes and examples ; Fix the MIBs directories list and the "keep temporary files" option

2.1730 2015-09-15 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-names.txt: Extend NUT namespace with outlet.group collection A new data collection, called "outlet.group", is now available. It provides grouped management for a set of outlets. The same principles and data than the outlet collection apply to outlet.group
- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: adapt template mechanisms for outlet groups The template handling mechanisms, originally created for outlets, is now adapted to also manage outlet groups

2.1731 2015-09-14 root <root@arno-zbook15.euro.ad.etn.com>

- docs/nut-names.txt: Add a note on the outlet.count variable

2.1732 2015-09-14 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: add nominal input current for Eaton ePDU snmp-ups now provides input.[Lx.]current.nominal for Eaton ePDU G2/G3, both for 1phase and 3phase
- drivers/eaton-mib.c: snmp-ups: better input.power handling for Eaton ePDUs Improve the way we declare and process input.power, as previously done for input.realpower, in order to address the variations between Eaton ePDUs G2 and G3

2.1733 2015-09-11 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: publish part number for Eaton ePDU device.part was standardized in NUT namespace, so enable the declaration for Eaton ePDU
- drivers/eaton-mib.c: snmp-ups: 3-phase alarm handling for Eaton ePDU Eaton ePDU can now handle alarms on 3-phase, currently limited to voltage and current, relative to the configured thresholds
- drivers/snmp-ups.c: snmp-ups: implement 3-phase alarm handling snmp-ups now allows to publish 3-phase alarms in ups.alarm, the same way as with outlet. Declaration of such alarms are done using "Lx.alarm". info_lkp_t structures messages are shared templates with outlets, and use the string formats to include the context (outlet or phase) and the number (of the outlet or phase) in alarm messages. These alarms are then published in "ups.alarm", with the standard mechanism for alarm publication
- docs/nut-names.txt: Extend 3-phase collection namespace with alarms 3-phase data collection now allows to specify alarms, the same way than with the outlet collection ("outlet.n.alarm"), but using "Lx.alarm" (for example "L1.alarm"). These alarms are then published in "ups.alarm", with the standard mechanism for alarm publication
- drivers/eaton-mib.c: Advanced threshold handling for Eaton 3-phase ePDU Eaton ePDU can now handle warning and critical thresholds settings and status for input voltage and current on 3-phase units. Alarms are however still to be implement
- docs/nut-names.txt: Extend 3-phase collection namespace with threshold 3-phase data collection now allows to specify low / high warning and critical thresholds for voltage and current. Status relative to the thresholds also exist for these data
- drivers/snmp-ups.c: Improve log/debug output trace

2.1734 2015-09-08 Charles Lepple <clepple+nut@gmail.com>

- drivers/solis.c: solis: resync with end-of-packet character (0.64) Suggested by @rpvelloso in https://github.com/networkupstools/-nut/issues/231#issuecomment-134795747 Note that the driver could possibly get out-of-sync after initial detection.

2.1735 2015-09-07 Charles Lepple <clepple+nut@gmail.com>

- docs/man/macosx-ups.txt, drivers/macosx-ups.c: macosx-ups: gracefully handle disconnection of UPS Tested on 10.9.5 and 10.10.5. Returns "data stale" when UPS disappears.

2.1736 2015-09-07 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups: fix loss of precision when setting values su_setvar() was losing precision when converting and casting the provided values to send to the SNMP agent. As an example, with an OID in millivolt (multiplier set to 0.001), when providing 238 (V) using upsrw, the value sent to the SNMP agent was 237999, so leaking 0.1 volt
- drivers/powerware-mib.c: Bump Powerware SNMP subdriver version

2.1737 2015-09-04 Charles Lepple <clepple+nut@gmail.com>

- Makefile.am, docs/configure.txt, docs/new-clients.txt, tools/nut-scanner/README: doc: correct remaining `--with-lib` references Credit: Paul Vermeer

2.1738 2015-09-04 Arnaud Quette <arnaud.quette@free.fr>

- drivers/dstate.c: Extend ups.alarm internal buffer to 1024 chars Currently, ups.alarm can hold up to 256 chars to expose alarms. With the recent outlet alarms handling addition, the buffer may quickly be to small. Thus, increase to 1024, which may still not be sufficient but already provides a bit more room
- drivers/eaton-mib.c: snmp-ups: outlet alarm handling for Eaton ePDU Eaton ePDU can now handle alarms on outlets, currently limited to outlet voltage and current, relative to the configured thresholds
- drivers/snmp-ups.c: snmp-ups: implement outlets / PDU alarm handling snmp-ups now allows to publish outlets and PDU alarms in ups.alarm, the same way as with ups.status. Declaration of such alarms are done using the outlet template mechanism ("outlet.%i.alarm"). info_lkp_t structures messages can also use the string formats to include the outlet number in alarm messages. These alarms are then published in "ups.alarm", with the standard mechanism for alarm publication
- docs/nut-names.txt: Extend outlet collection namespace with alarms Outlet data collection now allows to specify alarms, using the template definitions ("outlet.n.alarm"). These alarms are then published in "ups.alarm", with the standard mechanism for alarm publication

2.1739 2015-09-02 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: outlet threshold handling for Eaton ePDU Eaton ePDU can now handle warning and critical thresholds settings and status for outlet voltage and current
- docs/nut-names.txt: Extend outlet collection namespace with threshold Outlet data collection now allows to specify low / high warning and critical thresholds for voltage and current. Status relative to the thresholds also exist for these data

2.1740 2015-09-01 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: alarms handling for Eaton ePDU Eaton ePDU can now publish alarms, related to input status (voltage, frequency and current) and ambient status (temperature and humidity). Note that alarms are still published under ups.alarms, though these should belong to either pdu.alarms or better device.alarms
- drivers/eaton-mib.c: Advanced input threshold handling for Eaton ePDU Eaton ePDU can now handle warning and critical thresholds settings and status for input voltage and current, along with the frequency status
- data/cmdvartab, docs/nut-names.txt: Extend input collection namespace with threshold Input data collection now allows to specify low / high warning and critical thresholds for voltage and current. Status relative to the thresholds also exist for these data, and for the frequency
- drivers/snmp-ups.h: Minor updates to TODO comments
- drivers/snmp-ups.c: Implement ups.alarm for SNMP snmp-ups now allows to publish alarms in ups.alarm, the same way as with ups.status

2.1741 2015-08-31 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: snmp-ups: ambient dry contacts support for Eaton ePDU Eaton ambient modules, connected on ePDU, now publish the status of the connected dry contacts sensors
- data/cmdvartab, docs/nut-names.txt: Extend ambient collection namespace with dry contacts Ambient data collection now allow to specify dry contacts sensor status
- drivers/eaton-mib.c: snmp-ups: fix Eaton Pulizzi Switched PDU multiplier As per the previous commit, to well handle integer RW variables
- drivers/eaton-mib.c: snmp-ups: ambient threshold handling for Eaton ePDU Eaton ePDU can now handle warning and critical thresholds and status for both humidity and temperature

- data/cmdvartab, docs/nut-names.txt: Extend ambient collection namespace with threshold Ambient data collection now allow to specify warning and critical thresholds
- drivers/eaton-mib.c: snmp-ups: publish presence of Eaton ambient sensor Publish the actual presence of ambient sensor for Eaton ePDU G2 and G3
- data/cmdvartab, docs/nut-names.txt: Publish the actual presence of an ambient sensor A new data was created (ambient.present) to publish the actual presence of an ambient sensor
- drivers/snmp-ups.c: Proper handling of integer RW variables RW variables were previously supposed to always be strings. Thus, the multiplier (using the info_len field) was not applied. Also allow setting float values, not only integer
- drivers/snmp-ups.c, drivers/snmp-ups.h: Fix default SNMP retries and timeout The previous patch was using the default values from Net-SNMP, which are set to -1. When the user was not providing overriden values, this was causing the driver to not be able to establish the communication with the device. The default values are now fixed, as per documented (i.e. 5 retries and timeout of 1 second). Also bump the driver version to 0.74
- docs/man/ups.conf.txt, drivers/dstate.c: Make more obvious the socket write failure Document the error that require the use of the *synchronous* flag. Also use debug level 1 instead of 2 for the debug message

2.1742 2015-08-25 Daniele Pezzini <hyouko@gmail.com>

- README.adoc, docs/asciidoc.conf, docs/man/asciidoc.conf: docs: add *linkman2* AsciiDoc macro Add a new *linkman2* AsciiDoc macro to support different names for the manpage and the command shown. This is also needed to properly display links to manpages in both GitHub and generated docs without defining an attribute for each manpage. Reference: https://github.com/networkupstools/nut/pull/226

2.1743 2015-08-24 Daniele Pezzini <hyouko@gmail.com>

- README.adoc, docs/asciidoc.conf: docs: add *linksingledoc* AsciiDoc macro Add a new *linksingledoc* AsciiDoc macro which guarantees that, when chunked HTML is generated, the link always points to a non-chunked file.
- README.adoc: Update some URLs and make them clickable
- docs/asciidoc.conf: Make AsciiDoc xref macros work properly in DocBook-generated docs AsciiDoc ⇐ \~8.6.9 tests the wrong attribute and, as a consequence of that, it produces both <link> and <xref>. To workaround this issue, implement the xref macro by ourselves.
- README.adoc: Remove a couple of end-of-line spaces
- README.adoc, docs/chunked.xsl, docs/download.txt, docs/support.txt: Make cross references work in both GitHub and generated docs Substitute the shorthand << >> syntax with attributes that conditionally expand to: - links on GitHub (references can point at most to a section of level docs/common.xsl's <chunk.section.depth>), - xref macros when generating docs. In order to achieve the result, *chunked* docs get now their pages named after IDs. So, update all the links that use the old auto-generated names. Reference: https://github.com/networkupstools/nut/pull/226
- README.adoc: Make links to docs/manpages work in both GitHub and generated docs Since GitHub doesn't allow custom macros, only use ours when generating docs, replacing their occurrences with attributes that produce links when on GitHub. This approach should work properly as long as we use them in contexts where attributes are evaluated and substituted before macros. Also, use a common attribute that points to the URL of the website. Reference: https://github.com/networkupstools/-nut/pull/226
- README.adoc: Make nutdrv_qx the *generic device driver* for Q* protocols As the link was still pointing to the old -no longer generated- *blazer* manpage, take the chance to reword the paragraph so that it points to the new nutdrv_qx driver.

2.1744 2015-08-23 Charles Lepple <clepple+nut@gmail.com>

- drivers/solis.c: solis: Add upsdebug*() and upslogx() calls for diagnostics

2.1745 2015-08-22 Mariano <marianojan@users.noreply.github.com>

- drivers/nutdrv_qx_voltronic-qs-hex.c: nutdrv_qx: add support for LYONN CTB-800V Small protocol validation change in *voltronic-qs-hex* subdriver to add support for the protocol used by the LYONN CTB-800V UPS.

2.1746 2015-08-18 Kenny Root <kenny@the-b.org>

- drivers/powerware-mib.c: Add ups.start.auto for Powerware SNMP Use the IETF UPS MIB to indicate to Powerware devices that it should restart when mains power is applied.
- drivers/powerware-mib.c: Fix some indentation problems in PowerWare SNMP
- drivers/powerware-mib.c: Add shutdown.return for Powerware SNMP The Powerware MIB supports the concept of shutting down with a delay and then returning when line power is restored. The delay is set to 0 seconds currently.
- drivers/powerware-mib.c: Add load.{off,on}.delay for Powerware SNMP The commands to shut down with delay have existed since the first version of the Powerware MIB so add the newer commands "load.off.delay" and "load.on.delay" to aid in shutdown scripts.

2.1747 2015-08-07 Arnaud Quette <arnaud.quette@free.fr>

- drivers/dummy-ups.c, drivers/dummy-ups.h: Fix dummy-ups for external value changes dummy-ups allow to change the values of the publicated variables through the standard upsrw tool. This method is handy to script value changes, in a controlled way, compared to the dynamic version (using the TIMER keyword in .dev files), which changes the values in a non controlled way. Bump driver version to 0.14
- m4/nut_check_libnss.m4: Fully check for a working Mozilla NSS Rework the NSS tests so that just having runtime libraries installed is not enough. Moreover, since GNU libc6 also provides a nss.h header, the test now checks for both nss.h and ssl.h Closes nut#184
- docs/download.txt: Fix Red Hat / Fedora packages repository URL

2.1748 2015-08-06 Charles Lepple <clepple+nut@gmail.com>

- README.adoc: Remove some old compatibility information from the README
- Makefile.am, README ⇒ README.adoc, configure.ac, docs/Makefile.am, docs/user-manual.txt: Rename README with extension for AsciiDoc and update references to it Also: - add *foreign* to AM_INIT_AUTOMAKE macro so that automake doesn't fail as a consequence of the lack of a *README* file (since we now have *README.adoc*); - make sure README.adoc is distributed.
- README.adoc: Remove some old compatibility information from the README
- README ⇒ README.adoc: Rename README with extension for AsciiDoc

2.1749 2015-08-04 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/scan_snmp.c: Fix a crash on a 2nd call to libnutscan on behalf of Tomas Halman, from Eaton Opensource Team

2.1750 2015-08-03 Tomas Halman <TomasHalman@eaton.com>

- clients/nutclient.cpp: Problem: nutclient library sometimes reads socket closed by server. Solution: proper read return value evaluation

2.1751 2015-07-27 Daniele Pezzini <hyouko@gmail.com>

- common/common.c, common/str.c, drivers/bcmxcp.c, drivers/blazer.c, drivers/blazer_ser.c, drivers/blazer_usb.c, drivers/libhid.c, drivers/mge-xml.c, drivers/nutdrv_qx.c, drivers/powerp-bin.c, drivers/powerp-txt.c, drivers/powerpanel.c, drivers/tripplitesu.c, drivers/upscode2.c, include/common.h, include/str.h, server/upsd.c, tools/nut-scanner/scan_usb.c: common: consolidate some string-related functions Move **trim**() functions from common to str. Prepend the *str_* common prefix. Bailout early if string is NULL or empty. In *trim_m() functions, make sure the string containing characters to be removed is not NULL and bailout early if empty. Add new str_trim[_m]() functions to remove both leading and trailing characters at the same time. Update all the tree accordingly; versioning where appropriate.
- common/Makefile.am, common/str.c, include/Makefile.am, include/common.h, include/str.h: common: add some string-related functions

2.1752 2015-07-24 Tim Smith <tsmith84@gmail.com>

- INSTALL.nut: Spelling fixes Spelling fixes and capitalization of SUSE

2.1753 2015-07-24 Nash Kaminski <nashkaminski@gmail.com>

- drivers/tripplitesu.c: tripplitesu: Fix initialization when tripplite firmware is buggy With some Tripplite SU1000RT2U (and possibly more) UPS's, a firmware bug causes a malformed response to the very first command that is sent after the serial port is opened following a warm or cold boot of the system. My theory is that this related to either the RS232 data lines or handshaking lines being pulled high once the server's UART is powered however I have not determined precisely if this is related to the data line being pulled high or the handshaking lines being asserted. However, I have been able to consistently reproduce the issue where the driver fails to start on the first attempt after a cold/warm boot across 3 different machines and 2 SU1000RT2U UPS's. To workaround this, the initial enumeration is repeated a 2nd time after 300ms(to allow all garbage data to arrive) if the first attempt fails, which allows the driver to consistently startup successfully on the 1st attempt. Closes nut#220

2.1754 2015-07-23 Arnaud Quette <arnaud.quette@free.fr>

- scripts/augeas/nutupsconf.aug.tpl: Update Augeas lens for ups.conf Add the various missing global directives and ups fields

2.1755 2015-07-20 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: fix case and spacing

2.1756 2015-07-18 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: when targeting *UPS No Ack* consider also the trailing CR In *fabula* and *krauler* USB subdrivers, take into account also the trailing CR in the reply while looking for a *UPS No Ack*.
- drivers/nutdrv_qx.c: nutdrv_qx: stay true to return code in *fabula* USB subdriver In *fabula* USB subdriver, when reading *UPS No Ack* from device, since we already mimic a timeout, also empty the reply.

2.1757 2015-07-11 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Fideltronic INIGO Viper 1200 supported by nutdrv_qx

2.1758 2015-07-02 Charles Lepple <clepple+nut@gmail.com>

- drivers/usbhid-ups.c: usbhid-ups: bump version to 0.41 Both the eaton_dual_reportdesc and usbhid_ups_input_vs_feature branches claimed version 0.40, so let's disambiguate the merged version.

2.1759 2015-07-02 Arnaud Quette <arnaud.quette@free.fr>

- drivers/libhid.c: Add a debug trace for the number of HID objects found
- drivers/hidtypes.h: Fix testing typo MAX_REPORT is really 500 (HID objects), not 50!
- drivers/hidparser.c: Report when there are further unprocessed HID objects Following the last commits, and especially the MAX_REPORT one, warn whenever there are remaining HID objects that were not processed. This may serve
- drivers/hidtypes.h: Increase the maximum number of HID objects The previous value (300) was causing a trim of the remaining objects. Increase the value to 500, which should give a bit of time
- drivers/libshut.c, drivers/libshut.h, drivers/libusb.c, drivers/usb-common.h, drivers/usbhid-ups.c: Add support for Eaton dual HID report descriptor All devices use HID descriptor at index 0. However, some newer Eaton units have a light HID descriptor at index 0, and the full version is at index 1 (in which case, bcdDevice == 0x0202). This dual report descriptor approach is due to the fact that the main report descriptor is now too heavy, and cause some BIOS to hang. A light version is thus provided at the default index, solving this BIOS issues

2.1760 2015-06-27 Charles Lepple <clepple+nut@gmail.com>

- drivers/macosx-ups.c: macosx-ups: fix for 10.10 (Yosemite); v1.1 In OS X 10.9 and earlier, IOPSGetPowerSourcesInfo() returned a CFDictionary. In 10.10 it returns a CFArray. Programmers are supposed to use IOPSGetPowerSourceDescription() to gloss over this distinction. However, this does not make it easy to distinguish between a laptop battery and an UPS. So the "port" driver option no longer has any effect. https://developer.apple.com/library/mac/documentation/IOKit/Reference/-IOPowerSources_header_reference/#//apple_ref/c/func/IOPSGetPowerSourceDescription

2.1761 2015-06-22 Arnaud Quette <arnaud.quette@free.fr>

- scripts/upower/95-upower-hid.rules, tools/nut-usbinfo.pl: Update UPower HID rules and generator

2.1762 2015-06-11 Charles Lepple <clepple+nut@gmail.com>

- drivers/usbhid-ups.c: usbhid-ups.c: fall back to HID Input type if not a Feature

2.1763 2015-06-07 Charles Lepple <clepple+nut@gmail.com>

- drivers/tripplite-hid.c: tripplite-hid.c: device.part is static (version 0.82)

2.1764 2015-06-04 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: make sure processed item's boundaries are not wrong
- docs/nutdrv_qx-subdrivers.txt, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h: nutdrv_qx: remove redundant comments and update docs

2.1765 2015-06-01 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/snmp-ups.txt, drivers/snmp-ups.c, drivers/snmp-ups.h: Provide access to Net-SNMP timeout and retries Two new extra arguments are now available to allow overriding Net-SNMP number of retries (snmp_retries) and timeout per retry (snmp_timeout). These respectively maps to snmpcmd "-r retries" and "-t timeout"

2.1766 2015-05-29 Arnaud Quette <arnaud.quette@free.fr>

- scripts/upower/95-upower-hid.rules: Update UPower HID rules
- tools/nut-usbinfo.pl: Fix UPower device matching for recent kernels As per the UPower patch below referenced, hiddev* devices now have class "usbmisc", rather than "usb". See http://cgit.freedesktop.org/upower/commit/rules/95-upower-hid.rules?id=9f310

2.1767 2015-05-28 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-init.h, tools/nut-scanner/nuts ip.c, tools/nut-scanner/nutscan-ip.h, tools/nut-scanner/nutscan-serial.c, tools/nut-scanner/nutscan-serial.h, tools/nut-scanner/scan_aval tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Fix legal information on source-code headers Copyright and author were not mentioned as it should be. Most of the nut-scanner copyright belongs to EATON, apart from few parts. Files descriptions are now also in Doxygen format

2.1768 2015-05-18 Daniele Pezzini <hyouko@gmail.com>

- docs/nutdrv_qx-subdrivers.txt, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_mecer.c, drivers/nutdrv_qx_megatec-old.c, drivers/nutdrv_qx_megatec.c, drivers/nutdrv_qx_mustek.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_ qs-hex.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_voltronic.c, drivers/nutdrv_qx_zinto.c: nutdrv_qx: give subdrivers a last chance to process the command Add (and document) a new function (*preprocess_command()*) to preprocess the command to be sent to the device, just before the actual sending and, in case of instant commands/setvars, after the *preprocess()* function has been triggered (if appropriate). As an example, this function can be useful to add to all commands (both queries and instant commands/setvars) a CRC or to fill the command of a query with some data. Also, in qx_process(), address buf size vs item→answer size earlier. Update all subdrivers accordingly, bump versions.
- docs/nutdrv_qx-subdrivers.txt, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_blazer-common.h, drivers/nutdrv_qx_mecer.c, drivers/nutdrv_qx_megatec-old.c, drivers/nutdrv_qx_me drivers/nutdrv_qx_mustek.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_qx_voltronic-qs-hex.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_voltronic.c, drivers/nutdrv_qx_zinto.c: nutdrv_qx: make preprocessed value's size_t a const There's no need to intervene on the passed-to-the-function value of a preprocessed value's size_t, so clarify it is a const. Update all subdrivers accordingly, bump versions.
- drivers/nutdrv_qx.c: nutdrv_qx: make sure an answer is not reused if preprocess_answer() fails If an item's preprocess_answer() function fails, the answer should not be considered valid and inherited by the following items with the same command. Therefore, on failure, clear the answer so that the following items are forced to query the device and preprocess the answer anew, if appropriate.

2.1769 2015-05-13 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt: Update NUT packages for Windows to 2.6.5-6

2.1770 2015-05-07 Arnaud Quette <arnaud.quette@free.fr>

- scripts/systemd/nut-server.service.in: Restore systemd relationship with nut-driver service The Requires directive from nut-server to nut-driver was previously removed, since it was preventing upsd from starting whenever one or more drivers, among several, was failing to start. Use the Wants directive, a weaker version of Requires, which will start upsd even if the nut-driver unit fails to start. closes https://github.com/networkupstools/nut/issues/200

2.1771 2015-04-28 Nick Mayerhofer <nick.mayerhofer@enchant.at>

- drivers/nutdrv_qx_voltronic.c: nutdrv_qx: move var declaration in *voltronic* subdriver Move variable declaration to fulfill condition *3.3. Portability* of the developer guide. Bump version.
- drivers/libhid.c: libhid: replace "flush loop" with memset Move to the C way of setting memory (memset), replacing a for loop with a few anti-patterns in it: - for (. . . ; ; i+\+) - for (. . . ; i < MAGIC_NUMBER; . . .) - for (. . .) array[i] = 0

2.1772 2015-04-26 Nick Mayerhofer <nick.mayerhofer@enchant.at>

- docs/nutdrv_qx-subdrivers.txt, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h: nutdrv_qx: improve documentation for some methods

2.1773 2015-04-23 Arnaud Quette <arnaud.quette@free.fr>

- Makefile.am: Cleanup GPG signature before generation

2.1774 2015-04-22 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac: bump version back to 2.7.3.1
- configure.ac: Restore version 2.7.3 for release
- docs/security.txt: Missing link reference update The filename of the previous GPG release key was not updated, leading to pointing to the current release key

2.1775 2015-04-16 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac: bump version to 2.7.3.1

2.1776 2015-04-15 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac: update version to 2.7.3
- docs/security.txt: Update release signature verification The release manager key has change. Update the documentation to reflect it, along with keeping necessary for checking the previous releases
- docs/download.txt: Fix formatting issue
- NEWS, UPGRADING: Final update for release 2.7.3 Complete the release information for NUT 2.7.3
- docs/maintainer-guide.txt: Store some comments for latter processing

2.1777 2015-04-10 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-hid.c: Improve Eaton ABM support for USB/HID units As per clarifications from David G. Miller (Eaton ABM expert) and customers request, when ABM is enabled, we now both publish the following as per the ABM information: - the 5 status bits {charging, discharging, floating, resting, off} under battery.charger.status - the 2 historical status bits {CHRG, DISCHRG} under ups.status When ABM is disabled, we just publish the 2 historical status bits {CHRG, DISCHRG} under ups.status, as per UPS.PowerSummary.PresentStatus.{Charging,Discharging}, as done previously

2.1778 2015-04-08 Nick Mayerhofer <nick.mayerhofer@enchant.at>

- docs/nutdrv_qx-subdrivers.txt, drivers/nutdrv_qx.c, drivers/nutdrv_qx.h: nutdrv_qx: clarify docs/inline comments

2.1779 2015-04-07 Arnaud Quette <arnaud.quette@free.fr>

- scripts/systemd/nut-server.service.in: Do not Require systemd nut-driver for nut-server Put the Requires=nut-driver.service in comment for nut-server systemd unit file. Thus we don't require drivers to be successfully started! This was a change of behavior compared to init SysV, and could prevent from accessing successfully started drivers, or at least to audit a system Closes: https://github.com/networkupstools/nut/issues/200

2.1780 2015-04-04 Émilien Kia <emilien.kia@gmail.com>

- server/upsd.c: Initialize SSL after deamonize and downgrade to user. Fix issue #190 - upsd: NSS SSL only working in debug mode https://github.com/networkupstools/nut/issues/190

2.1781 2015-04-04 Charles Lepple <clepple+nut@gmail.com>

- UPGRADING: mention SSL permissions (#199)
- docs/security.txt: NSS SSL documentation Addresses new behavior as part of the NSS forking fix (#199). Formatting and wording fixed as well.

2.1782 2015-04-02 Arnaud Quette <arnaud.quette@free.fr>

- conf/ups.conf.sample, docs/man/ups.conf.txt, drivers/dstate.c, drivers/dstate.h, drivers/main.c: Improve synchronous driver flag implementation The previous commit was suffering a number of issues. The present commit fixes these, along with adding more documentation and a better and more understandable implementation code. Thanks to Daniele Pezzini for the thorough review Closes: https://github.com/networkupstools/nut/issues/197
- drivers/eaton-mib.c: Better input.realpower handling for Eaton ePDUs G2/G3 Improve the way we declare and process input.realpower, in order to address the variations between Eaton ePDUs G2 and G3

2.1783 2015-04-01 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/ups.conf.txt, drivers/dstate.c, drivers/dstate.h, drivers/main.c: Implement synchronous driver flag As per issue #197, NUT drivers work by default in asynchronous mode. This means that all data are pushed by the driver on the communication socket to upsd (Unix socket on Unix, Named pipe on Windows) without waiting for these data to be actually consumed. With some HW, such as ePDUs, that can produce a lot of data, asynchronous mode may cause some congestion, resulting in the socket to be full, and the driver to appear as not connected. By enabling the *synchronous* flag, the driver will wait for data to be consumed by upsd, prior to publishing more. This can be enabled either globally or per driver.
- drivers/eaton-mib.c: Workaround input.{power,realpower} for Eaton ePDUs Add variable declarations to handle missing input.{power,realpower} on Eaton ePDUs G2 and G3 1phase. On 3phase, these variables point at SNMP OIDs that sum up the 3 phases information. These OIDs should also be present on 1phase, however it's actually not the case. So simply duplicate the L1 declaration

2.1784 2015-03-31 Arnaud Quette <arnaud.quette@free.fr>

- drivers/powerware-mib.c: Implement battery.charger.status for Eaton SNMP This new official variable now replaces the historic *vendor.specific.abmstatus*, as per other similar implementations (in usbhid-ups and bcmxcp drivers)

2.1785 2015-03-27 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-hid.c: Implement Eaton ABM support for USB/HID units Add support for Eaton Advanced Battery Monitoring, for USB/HID units. Information are provided through the new battery.charger.status. For now, at least, when ABM is enabled, the historic CHRG and DISCHRG flags are not published anymore in ups.status

2.1786 2015-03-26 Stuart Henderson <stu@spacehopper.org>

- data/driver.list.in, docs/man/snmp-ups.txt, docs/snmp-subdrivers.txt, drivers/Makefile.am, drivers/huawei-mib.c, drivers/huawei-mib.h, drivers/snmp-ups.c: snmp-ups: new subdriver for Huawei "Hi, the [commit] below adds a new subdriver for snmp-ups to support Huawei UPS, based on an observed walk from a UPS5000-E with a few bits filled in from the MIBs (copy at http://junkpile.org/HUAWEI_UPS_MIB/)." http://news.gmane.org/find-root.php?message_id=slrnmh6npf.tg7.stu%40naiad.spacehop

2.1787 2015-03-25 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx_voltronic.c: nutdrv_qx: add support in *voltronic* subdriver for P13 protocol

2.1788 2015-03-24 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-hid.c: Complementary Energy Saving data for Eaton USB devices Add a 2nd HID path for battery.energysave.delay. Depending on the exact device model, different implementations may be used

2.1789 2015-03-22 Daniele Pezzini <hyouko@gmail.com>

- NEWS: nutdrv_qx: update NEWS about new *fuji* USB subdriver

2.1790 2015-03-21 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c, drivers/nutdrv_qx.h: nutdrv_qx: typedef testing_t only if TESTING is #defined First reported by GitHub user @nickma82
- docs/man/nutdrv_qx.txt, docs/nutdrv_qx-subdrivers.txt: nutdrv_qx: document *voltronic-qs-hex* subdriver in man pages
- docs/man/nutdrv_qx.txt, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_blazer-common.h, drivers/nutdrv_qx_mecer.c, drivers/nutdrv_qx_megatec-old.c, drivers/nutdrv_qx_megatec.c, drivers/nutdrv_qx_mustek.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_qx_voltronic-qs-hex.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_zinto.c: nutdrv_qx: add *ignoresab* flag to support bogus devices Some UPSes incorrectly report the *Shutdown Active* bit (7th bit of the *status byte*) as always on (=1), consequently making the driver believe the UPS is nearing a shutdown (and, as a result, ups.status always contains FSD). To workaround this issue, add a new *ignoresab* flag that makes the driver do just what its name tells (IGNORE Status Active Bit) skipping the relative item in qx2nut tables. References: - http://lists.alioth.debian.org/pipermail/nut-upsdev/-2015-March/006896.html
  - https://github.com/networkupstools/nut/issues/195

2.1791 2015-03-19 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-names.txt: Document new variables and commands addition The variables and commands that were added were not described in the NUT namespace document. These are: input.transfer.delay - battery.energysave.load - battery.energysave.delay - battery.charger.status - outlet.1.shutdown.return - outlet.2.shutdown.return
- drivers/bcmxcp.c: Fix the letter case of ABM and outlets status For more coherence with NUT status publication, these status are now lower case
- drivers/bcmxcp.c: Add missing Author
- data/cmdvartab, docs/nut-names.txt, drivers/mge-hid.c: Add more Energy Saving features for Eaton USB devices Add two new Energy Saving features: - battery.energysave.delay: to configure the delay before switching off the UPS if running on battery and load level low (in minutes) - battery.energysave.realpower: to switch off the UPS if running on battery and power consumption on UPS output is lower than this value (expressed in Watts). Note that documentation in nut-names.txt and cmdvartab was limited to difference with an upcoming branch merge, that will add the others

- drivers/mge-hid.c: Align Energy Saving variable names Change ups.load.energysave to battery.energysave.load, to be coherent with the latest commit made in the bcmxcp driver
- tools/Makefile.am: Also distribute nut-ddl-dump.sh helper script

2.1792 2015-03-18 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: EUROCASE EA200N 2000VA supported by nutdrv_qx Protocol: *megatec* USB subdriver: *fuji* Reference: http://thread.gmane.org/gmane.comp.monitoring.nut.user/8808/focus=9081
- drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_mecer.c, drivers/nutdrv_qx_megatec-old.c, drivers/nutdrv_qx_megatec.c, drivers/nutdrv_qx_mustek.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_qx_voltronic-qs-hex.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_zinto.c: nutdrv_qx: remove redundancy in blazer-common-dependent subdrivers Since main nutdrv_qx driver already sets an alarm when FSD arises (see nutdrv_qx.c>ups_alarm_set()), there is no need to do so in the various subdrivers. So, in order to prevent a duplicated alarm message, remove all unneeded code from the affected subdrivers (all the ones that depend on nutdrv_qx_blazer-common).

2.1793 2015-03-17 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: update Mecer ME-1000-WTU (supported by nutdrv_qx) Tested by @sliverc (Oliver Sauder) on NUT 2.7.1 Reference: https://github.com/networkupstools/nut/issues/148

2.1794 2015-03-16 Daniele Pezzini <hyouko@gmail.com>

- docs/man/nutdrv_qx.txt: nutdrv_qx: document USB subdrivers' glitches
- drivers/nutdrv_qx.c: nutdrv_qx: add workaround in *fuji* subdriver to support all shutdown.returns As *fuji* subdriver discards all the commands of more than 3 characters, in order to support *SnRm* shutdown.returns (and hence the standard *S.5R0003* shutdown.return with DEFAULT_{ON,OFF}DELAYs) map *SnRm* shutdown.returns to the corresponding *Sn* commands, meanwhile ignoring ups.delay.start and making the UPS turn on the load as soon as power is back.
- drivers/nutdrv_qx.c: nutdrv_qx: fix command handling in *fuji* subdriver *fuji* subdriver supported devices only allow one 8 bytes interrupt as a command/query: make the subdriver discard (and echo back) all the too long commands.

2.1795 2015-03-15 Charles Lepple <clepple+nut@gmail.com>

- docs/developers.txt, docs/new-drivers.txt: doc: document build dependencies, etc. Closes: https://github.com/networkupstools/nut/issues/189
- docs/nutdrv_qx-subdrivers.txt: doc: fold a few long preformatted lines in nutdrv_qx developer guide
- docs/FAQ.txt: docs: FAQ update This addresses several issues: * https://github.com/networkupstools/nut/issues/19 * https://github.com/networkupstools/nut/issues/191 and Closes: https://github.com/networkupstools/nut/issues/161
- docs/man/Makefile.am: docs/man: provide additional detail for missing asciidoc/a2x error
- configure.ac: configure: indicate required version of Asciidoc/A2X/dblatex Still doesn't address data-only packages like docbook-xsl, so leaving this issue open. Reference: https://github.com/networkupstools/nut/issues/162
- docs/Makefile.am, docs/man/Makefile.am: Pass --nonet to xsltproc This prevents xsltproc from downloading DocBook XSL files for each step in the documentation build process. Reference: https://github.com/networkupstools/nut/issues/172 Still need to document what to do if the build fails.

2.1796 2015-03-11 Arnaud Quette <arnaud.quette@free.fr>

- data/cmdvartab, docs/nut-names.txt: Add some new variable names, related to ePDUs Add new variables names, related to ePDUs, such as input.**load, input.**.realpower and input.*.power
- drivers/eaton-mib.c: Minor update to comments

2.1797 2015-03-10 Arnaud Quette <arnaud.quette@free.fr>

- data/cmdvartab, drivers/mge-hid.c: Add a new EnergySaving threshold for Eaton UPSs Add *ups.load.energysave* parameter, to enable energy saving when the power consumption on the UPS output drops below this value (in percent). This new variable however requires to go through the NUT RFC process to get approved
- docs/documentation.txt: Reference DDL on the Documentation page Add a reference to the NUT Devices Dumps Library (DDL) on the Documentation page, both for the website and the distributed documentation. There are separate references, to distinguish the DDL interest from a user and a developer point of view

2.1798 2015-03-06 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-ddl-dump.sh: First stab at a helper script to generate device dumps This preliminary version only generates .dev (static) dump files. However, a merge with nut-recorder.sh, which generates .seq files (dynamic simulation) is to be considered, along with an improved version for the newer .nds format

2.1799 2015-03-04 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: increase verbosity of *sgs* USB subdriver In *sgs* USB subdriver: - be more verbose when debugging, - always print the return code when dealing with an error.

2.1800 2015-02-24 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: CPS Value 1500ELCD-RU @ 2.6.3 Source: http://news.gmane.org/find-root.php?message_id=1423241134.6
- data/driver.list.in: HCL: JAWAN JW-UPSLC02 with blazer_usb @ 2.7.2 Source: http://news.gmane.org/find-root.php?message_id=SN

2.1801 2015-02-22 Charles Lepple <clepple+nut@gmail.com>

- scripts/python/app/NUT-Monitor, scripts/python/app/gui-1.3.glade: NUT-Monitor: updated version to 1.3.1

2.1802 2015-02-14 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart.c: apcsmart: fix SEGV in apc_getcaps() ups ...

2.1803 2015-02-14 Michael Fincham <michael.fincham@catalyst.net.nz>

- scripts/python/app/NUT-Monitor: Correct unsafe permissions on \~/.nut-monitor (Debian #777706) fix-permissions-on-start.debdiff from https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=777706#24 Closes: https://github.com/networkupstools/nut/issues/185

2.1804 2015-02-14 Daniele Pezzini <hyouko@gmail.com>

- docs/man/nutdrv_qx.txt: nutdrv_qx: specify *bestups* ranges in man pages

2.1805 2015-02-14 Charles Lepple <clepple+nut@gmail.com>

- NEWS, UPGRADING: NEWS/UPGRADING for 2.7.3

2.1806 2015-02-13 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: fix command set parsing for protocol version 4 The issue was discovered with Smart-UPS RT 10000 XL by surr, see https://github.com/networkupstools/nut/issues/180 When protocol version is 4, command set query returns string with additional section after another . . This patch updates the code to handle such string as well.

2.1807 2015-02-10 Charles Lepple <clepple+nut@gmail.com>

- configure.ac: bump version to 2.7.2.6 for snapshots
- scripts/upower/95-upower-hid.rules: upower: regenerate for Powercom PID 0001 (PR #121)
- configure.ac: add bug report URL Should be compatible with Autoconf 2.59 and newer.

2.1808 2015-02-04 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: Fix outlet.{power,realpower} data mapping According to the new mapping using the input collection, these two data mapping were targeting at the wrong OIDs.
- drivers/netvision-mib.c: Improve support for on-battery detection Add support for upsAlarmOnBattery OID, to better detect on-battery events (reported by Henning Fehrmann)
- drivers/libhid.c, drivers/libhid.h: Fix compilation warning related to sign comparison

2.1809 2015-02-03 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: Fix and complete a bit Eaton ePDUs support Add some new data mapping to improve support for Eaton ePDUs. This commit includes some new NUT data names that requires approval before being merged

2.1810 2015-01-31 Ryan Underwood <nemesis@icequake.net>

- drivers/apc-hid.c, scripts/upower/95-upower-hid.rules: Add a product ID for APC AP9584 USB kit. Resolves nut#181

2.1811 2015-01-12 Charles Lepple <clepple+nut@gmail.com>

- scripts/upower/95-upower-hid.rules: upower: regenerate rules file for OpenUPS PID 0xd005
- Makefile.am: Add systemd unit dir fix for *make distcheck*

2.1812 2015-01-11 Sergey Kvachonok <ravenexp@gmail.com>

- that don't start with */lib* e.g. */usr/lib64/systemd/system* becomes */usr/usr/lib6464/systemd/system*. If a local installation prefix is needed use appropriately prefixed --with-systemdsystemunitdir=" parameter instead.

2.1813 2015-01-03 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx_bestups.c: nutdrv_qx: bestups - add support for *M* query

2.1814 2015-01-02 Charles Lepple <clepple+nut@gmail.com>

- docs/cables.txt, docs/config-notes.txt, docs/configure.txt, docs/features.txt, docs/history.txt, docs/man/nutdrv_qx.txt, docs/nut-names.txt, docs/scheduling.txt, docs/security.txt: docs: typo fixes

2.1815 2015-01-01 Charles Lepple <clepple+nut@gmail.com>

- docs/cables.txt: docs: MGE NMC pinout Closes https://github.com/networkupstools/nut/issues/141
- docs/cables.txt: docs: Best Power cable pinout Closes https://github.com/networkupstools/nut/issues/164
- INSTALL.nut: docs: clarify group ownership of directory in INSTALL.nut Closes https://github.com/networkupstools/nut/-issues/151
- docs/man/dummy-ups.txt: docs: dummy-ups repeater mode requires `@` in port name Also reworded parts of the man page.

2.1816 2014-12-17 bsalvador <bruno.salvador@gmail.com>

- drivers/solis.c: Update solis.c to force ScanReceivePack()

2.1817 2014-12-12 Andy Juniper <ajuniper@freeuk.com>

- clients/upslog.c, docs/man/upslog.txt: upslog: break out of sleep on SIGUSR1 and log immediately Reference: http://news.gmane.org/find-root.php?message_id=54863D44.3000902%40freeuk.com

2.1818 2014-11-25 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: additional NHS models

2.1819 2014-11-17 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: NHS Sistemas de Energia: Expert C Isolador series Source: http://news.gmane.org/find-root.php?message_id=

2.1820 2014-11-08 Daniele Pezzini <hyouko@gmail.com>

- docs/man/nutdrv_qx.txt: nutdrv_qx: update man for the new *fabula* and *fuji* USB subdrivers

2.1821 2014-11-07 Arnaud Quette <arnaud.quette@free.fr>

- scripts/subdriver/gen-snmp-subdriver.sh: Various minor fixes to the SNMP subdriver generator

2.1822 2014-11-06 Charles Lepple <clepple+nut@gmail.com>

- drivers/openups-hid.c: openups-hid: Fix scale factors for 0xd005 (0.4) Previous commit had extra scale factors applied.
- drivers/openups-hid.c, drivers/openups-hid.h: openups-hid: voltage scale factors based on product IDs
- drivers/openups-hid.c: openups-hid: remove a const; this will require more thought The USB matching routines should have their parameters marked as "const" to indicate that they do not modify the matching tables, but that will require more invasive changes. Roll this back for now.

2.1823 2014-11-05 Charles Lepple <clepple+nut@gmail.com>

- drivers/openups-hid.c: openups-hid: const and float/double fixups (0.2)
- drivers/openups-hid.c: openups-hid: add USB ProductID d005 for OpenUPS2

2.1824 2014-11-05 Arnaud Quette <arnaud.quette@free.fr>

- Makefile.am: Store the git start point as a variable For ChangeLog, we now store the git start point (older reference) in a separate variable, to make the process more clear

2.1825 2014-11-02 Daniele Pezzini <hyouko@gmail.com>

- docs/man/nutdrv_qx.txt, docs/nutdrv_qx-subdrivers.txt: nutdrv_qx: update man pages for new *bestups* subdriver
- drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_bestups.c, drivers/nutdrv_qx_bestups.h: nutdrv_qx: add BestUPS subdriver (protocol=bestups) A subdriver using Best Power/Sola Australia protocol as described in http://www.networkupstools.org/-protocols/sola.html Based also on bestups.c and meant to eventually replace it.

2.1826 2014-10-31 Charles Lepple <clepple+nut@gmail.com>

- docs/download.txt: Update VMware ESXi package link (from René Garcia)

2.1827 2014-10-29 Charles Lepple <clepple+nut@gmail.com>

- scripts/upower/95-upower-hid.rules: upower: Update Belkin and Liebert rules Follow-up to issue #159.
- drivers/belkin-hid.c, drivers/liebert-hid.c: usbhid-ups: comments describing Belkin/Liebert/Phoenixtec situation Follow-up to issue #159.
- data/driver.list.in: HCL: Rucelf UPOII-3000-96-EL supported by blazer_ser Manufacturer: http://www.rucelf.ua/en/catalog/-upoii-3000-96-el/ Closes: https://github.com/networkupstools/nut/issues/165

2.1828 2014-10-28 Elio Parisi <E.Parisi@riello-ups.com>

- drivers/riello_usb.c: riello_usb: explicitly claim USB interface Reference: http://news.gmane.org/find-root.php?message_id=7731ed2
  and https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=738122

2.1829 2014-10-20 Nik Soggia <nut@niksoggia.it>

- drivers/Makefile.am: missing -lm in drivers/Makefile.am Both bcmxcp and bcmxcp_usb use ldexp(), so both need `-lm`. http://news.gmane.org/find-root.php?message_id=544515BA.4060804%40niksoggia.it

2.1830 2014-10-20 Elio Parisi <E.Parisi@riello-ups.com>

- drivers/riello_usb.c: riello_usb: timeouts and error handling (0.03) Small changes in riello_usb.c that solved some problem with managing transmission errors between the Raspberry Pi and Riello ups (thanks to Fredrik Öberg): introducing timeout in reading ups data in cypress_command; enhanced handling error codes http://news.gmane.org/find-root.php?message_id=f5294e5579574b
- drivers/riello_ser.c: riello_ser: enhanced handling error codes (0.03)

2.1831 2014-10-20 Charles Lepple <clepple+nut@gmail.com>

- docs/.gitignore: docs: docinfo.xml is now auto-generated

2.1832 2014-10-10 gavrilov-i <gavrilov-i@users.noreply.github.com>

- data/cmdvartab, drivers/bcmxcp.c, drivers/bcmxcp.h: drivers/bcmxcp: advanced features Closes: #158 Added setvar function exec result parsing Add command to turn load on after shutdown.stayoff and shutdown.return. Outlet control changed. Outlet control via commands "outlet.n.load.on/off" like in other drivers. Variable outlet.n.staus now only for reading. Some code changes in outlet.n.shutdown.return command - now supporting more than 3 outlets (up to 9). Add descriptions to new and some old variables and commands. Add "bypass.start" command, for enabling bypass. For returning in On-Line mode exec "load.on" command. Additional checks of UPS vars. Now add zero var only if it could be changed.

2.1833 2014-10-10 Paul Chavent <paul.chavent@onera.fr>

- drivers/belkin-hid.c: drivers : add Liebert GXT3 device.
- drivers/main.c: drivers : fix possible memory leak. In arguments parsing, if user option is passed.

2.1834 2014-09-30 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart.c: apcsmart: increase passes in setvar_enum() Current 6 is not enough for bigger units - especially if we swap to the value directly preceeding the current setting.

2.1835 2014-09-28 Arnaud Quette <arnaud.quette@free.fr>

- docs/configure.txt: Clarify a bit more Avahi build requirements
- tools/nut-scanner/Makefile.am: Don't reference subdir-object with $(top_srcdir) Replace references to objects in separate directories that were using $(top_srcdir) by the expanded version ../../. The variable was otherwise part of the path, resulting in build failures. This completes commit f8abb9b Closes nut#155
- configure.ac: Explicitly use subdir-objects in automake init Closes nut#155

2.1836 2014-09-27 Daniele Pezzini <hyouko@gmail.com>

- configure.ac, docs/Makefile.am, docs/docinfo.xml, docs/docinfo.xml.in: docs: add NUT version number/date in PDF documents Reference: https://github.com/networkupstools/nut/issues/150
- docs/chunked.xsl, docs/common.xsl, docs/xhtml.xsl: docs: move DocBook options common to html stylesheets to common.xsl
- docs/Makefile.am, docs/common.xsl: docs: add NUT version number/date into footer of HTML pages Reference: https://github.com/-networkupstools/nut/issues/150

2.1837 2014-09-27 Arnaud Quette <arno@arno-zbook15.euro.ad.etn.com>

- docs/man/Makefile.am, docs/man/asciidoc.conf: Add NUT version number into footer of HTML man pages Override AsciiDoc default for footer-txt to include NUT version number into footer of HTML man pages. This commit addresses the 2nd point of nut#150

2.1838 2014-09-27 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac, m4/nut_check_asciidoc.m4: Also check for source-highlight at configure time source-highlight is used for documentation generation. It's however optional, so we just check for the sake of completion

2.1839 2014-09-26 Charles Lepple <clepple+nut@gmail.com>

- drivers/tripplite_usb.c: tripplite_usb: set input.voltage.nominal back to 230V (0.30) Keeps the input.voltage and output.voltage scaling from 0.28 Discussion: http://article.gmane.org/gmane.comp.monitoring.nut.user/8719

2.1840 2014-09-26 Arnaud Quette <arnaud.quette@free.fr>

- conf/upsmon.conf.sample.in, docs/man/nut.conf.txt, docs/man/upsmon.conf.txt, docs/packager-guide.txt: Replace outdated references to shutdown.txt shutdown.txt was merged into config-notes.txt during the AsciiDoc conversion of the whole documentation and website. This content is now available in the docs/config-notes.txt file, section [UPS_shutdown] "Configuring automatic shutdowns for low battery events"
- conf/upsmon.conf.sample.in: Fix default value of POWERDOWNFLAG POWERDOWNFLAG path changed from the hard-coded value /etc/killpower to the build-time generated @CONFPATH@/killpower. This resulted in an unexpected value */etc/nut/killpower*, at least on Debian. (reported by Laurent Bigonville) Closes nut#74

2.1841 2014-09-25 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: move to ltrim_m()/rtrim_m() functions
- common/common.c, include/common.h: Add ltrim_m()/rtrim_m() functions to trim several chars at the same time Also, make ltrim() / rtrim() wrappers around ltrim_m() / rtrim_m().
- common/common.c: Make ltrim() modify the input string Also, always check string length in both ltrim() and rtrim(). Reference: https://github.com/networkupstools/nut/issues/154

2.1842 2014-09-25 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: sort Tripp Lite models by name, then increasing power I know this doesn't allow the cell merging code to do as much, but this should make it easier to find models.
- data/driver.list.in: HCL: add Tripp Lite OMNIVSINT800 (tripplite_usb) Source: http://article.gmane.org/gmane.comp.monitoring.nut.
8713
- drivers/tripplite_usb.c: tripplite_usb: scale min/max voltages for SMART protocol (0.29) Observed in a dump file from driver version 0.11. Scale input.voltage.minimum and input.voltage.maximum the same way as other voltages.
- drivers/tripplite_usb.c: tripplite_usb: fix voltage scaling for 240V/1001 (0.28) Reported by Dave Williams: http://article.gmane.org/-gmane.comp.monitoring.nut.user/8713 The input.voltage and output.voltage scaling for Protocol 1001 did not factor in the input_voltage_scaled value.

2.1843 2014-09-24 Arnaud Quette <arnaud.quette@free.fr>

- scripts/python/app/nut-monitor.appdata.xml: Fix compliance of NUT-Monitor FreeDesktop AppData file Following the upstream update (by David Goncalves), update the screenshots width and height to conform to AppData specification: http://people.freede
\~hughsient/appdata/ Closes nut#127

2.1844 2014-09-17 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-qa.txt: Minor update and completion Use the new Debian package tracker URL and add Redhat / Fedora bug tracker

2.1845 2014-09-15 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in: HCL: add devices supported by nutdrv_qx - Fideltronik LUPUS 500 USB Protocol: *megatec* USB subdriver: *fabula* Reference: http://lists.alioth.debian.org/pipermail/nut-upsuser/2014-June/009059.html
  - FTUPS FT-1000BS(T) / Voltronic Power Apex 1KVA Protocol: *voltronic-qs-hex* USB devices → USB subdriver: *cypress* - FTUPS FT-1000BS / Voltronic Power Imperial 1KVA Protocol: *voltronic-qs* USB devices → USB subdriver: *cypress*

2.1846 2014-09-08 Charles Lepple <clepple+nut@gmail.com>

- docs/documentation.txt: docs: Add link to Roger Price's openSUSE writeup

2.1847 2014-09-04 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: prevent a vicious loop when unexpected answers happen If a *QX_FLAG_QUICK_POLL* item gets an unexpected (non-empty) answer and, after returning from *qx_ups_walk()*, it is not followed by at least one item using a different *command*, the driver will loop endlessly using the same *broken* answer instead of trying to get a new one from the UPS. To solve this issue, make sure to have an empty *previous_item* when starting *qx_ups_walk()*. Also, bail out of *qx_ups_walk()* when a *QX_FLAG_QUICK_POLL* item can't be preprocessed properly through *ups_infoval_set()*.

2.1848 2014-09-04 Charles Lepple <clepple+nut@gmail.com>

- docs/man/asem.txt: docs: recommend I2C bus name for asem driver

2.1849 2014-09-03 Daniele Pezzini <hyouko@gmail.com>

- drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_voltronic-qs-hex.c, drivers/nutdrv_qx_voltronic-qs-hex.h: nutdrv_qx: add Voltronic-QS-Hex subdriver (protocol=voltronic-qs-hex) A subdriver using a protocol, specific to UPSes manufactured by Voltronic Power, partially Hex-encoded (e.g. *QS* reply) and supporting some megatec commands.
- docs/nutdrv_qx-subdrivers.txt: nutdrv_qx: update docs about added support for more complex UPS answers
- drivers/nutdrv_qx.c, drivers/nutdrv_qx.h, drivers/nutdrv_qx_mecer.c, drivers/nutdrv_qx_megatec-old.c, drivers/nutdrv_qx_megatec.c, drivers/nutdrv_qx_mustek.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_voltronic.c, drivers/nutdrv_qx_zinto.c: nutdrv_qx: add basic support for more complex UPS answers Add support (also in *TESTING* mode) for *\0* chars in raw UPS answers and the ability to preprocess answers before anything else (e.g.: for CRC, decoding, . . .). Increase verbosity of USB subdrivers and serial communication. Always print also the return code when dealing with an error. Update all subdrivers accordingly, bump versions.

2.1850 2014-09-03 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nut-scanner.txt: Fix typo error in nut-scanner doc The example network range scanned when using 192.168.0.0/25 is actually 192.168.0.0 to 192.168.0.12*7* not (i.e. not .128) as previously stated (reported by Evgeny *Jim* Klimov) Closes nut#144

2.1851 2014-09-02 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in, drivers/belkin-hid.c: HCL: Belkin Regulator PRO-USB 050d:0f51 (0.17) https://github.com/networkupstools/-nut/issues/149

2.1852 2014-08-22 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Mecer ME-100-WTU with blazer_usb USB VID:PID = 0665:5161 Tested by @silvec (Oliver Sauder) on NUT 2.6.3 Reference: https://github.com/networkupstools/nut/issues/148

2.1853 2014-08-19 Charles Lepple <clepple+nut@gmail.com>

- docs/documentation.txt: docs: update links for two articles

2.1854 2014-08-17 Yann E. MORIN <yann.morin.1998@free.fr>

- conf/Makefile.am: conf/: fix parallel install Do not reference the upsmon.conf.sample twice, otherwise install, with a high number of make jobs, may fail, like so: http://autobuild.buildroot.net/results/256/2567e13cd5bc702bc3a38a1d6fc8e34022cc7db5/-build-end.log --- This is not a rare occurence, as my testing managed to trigger the issue in about 1 test out of 10 on average, on a not-so-fast machine.

2.1855 2014-08-17 Charles Lepple <clepple+nut@gmail.com>

- tools/nut-usbinfo.pl: nut-usbinfo: fix FreeBSD devd.conf to use $cdev
- scripts/upower/95-upower-hid.rules: 95-upower-hid.rules: updated by nut-usbinfo.pl URL updated in previous commit.
- tools/nut-usbinfo.pl: nut-usbinfo: change link from Alioth SVN to GitHub
- scripts/udev/.gitignore: udev: ignore 62-nut-usbups.rules Follow-up commit to nut#140

2.1856 2014-08-16 Charles Lepple <clepple+nut@gmail.com>

- tools/nut-usbinfo.pl: nut-usbinfo: ignore *.orig files

2.1857 2014-08-14 Émilien Kia <emilien.kia@gmail.com>

- configure.ac, docs/man/Makefile.am, m4/nut_check_asciidoc.m4: Test presence of xmllint for manpages doc generation.
- configure.ac, docs/man/Makefile.am, m4/nut_check_asciidoc.m4: Test presence of xsltproc for manpages doc generation.

2.1858 2014-08-09 Charles Lepple <clepple+nut@gmail.com>

- drivers/blazer_usb.c, drivers/libusb.c, drivers/nutdrv_qx.c, drivers/tripplite_usb.c, drivers/usb-common.h, drivers/usbhid-ups.c: libusb.c: consolidate USB-related addvar() calls
- drivers/cps-hid.c: usbhid-ups (CPS): determine battery.voltage scale factor at runtime If the battery.voltage reading is greater than 1.4x battery.voltage.nominal, apply a scale factor of 2/3 to bring the voltage back in line. Closes nut#142

2.1859 2014-08-08 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nut-scanner.txt: Fix typo error Fix a typo error on "-B" option (reported by Evgeny *Jim* Klimov)

2.1860 2014-08-05 Arnaud Quette <arnaud.quette@free.fr>

- scripts/python/Makefile.am: Distribute FreeDesktop AppData file for NUT Monitor FreeDesktop AppData file for NUT Monitor was not distributed, waiting for some approval

2.1861 2014-08-04 Charles Lepple <clepple+nut@gmail.com>

- docs/man/ups.conf.txt, drivers/libusb.c: Remove redundant usb_set_altinterface(), unless user requests it Adds flag/value to USB driver options. Closes nut#138

2.1862 2014-08-01 Arnaud Quette <arnaud.quette@free.fr>

- scripts/udev/Makefile.am, scripts/udev/README: Fix USB permission issues related to Linux / udev Rename udev rules file to 62-nut-usbups.rules, to prevent NUT USB privileges from being overwritten Closes #140
- docs/cables.txt: Fix typo error on Eaton / MGE USB-RJ45 cable

2.1863 2014-07-14 Giuseppe Corbelli <giuseppe.corbelli@copanitalia.com>

- AUTHORS, docs/man/asem.txt: asem: additional documentation http://article.gmane.org/gmane.comp.monitoring.nut.devel/-6741

2.1864 2014-07-14 Charles Lepple <clepple+nut@gmail.com>

- scripts/Aix/.gitignore: Ignore generated AIX spec file

2.1865 2014-07-13 Charles Lepple <clepple+nut@gmail.com>

- docs/man/upscli_get.txt: upscli_get(): mention SIGPIPE handling Closes: #132
- data/driver.list.in: HCL: distinguish between Tripp Lite old and new protocol 3005

2.1866 2014-07-13 Arnaud Quette <arnaud.quette@free.fr>

- scripts/python/app/nut-monitor.appdata.xml: Complete FreeDesktop AppData file for NUT Monitor As per Richard Hughes comments, in #127, complete the description field

2.1867 2014-07-12 Arnaud Quette <arnaud.quette@free.fr>

- scripts/Aix/nut-aix.spec.in: Minor adjustments as per Github comments
- docs/configure.txt: Add missing documentation for configure option The new asem driver introduced --with-linux_i2c, for which documentation was missing in configure documentation

2.1868 2014-07-11 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: improve the USB matching procedure Consider also the iManufacturer/iProduct strings when checking devices (if subdriver is not specified) to assign the right subdriver in case the VID:PID couple is not specific enough.

2.1869 2014-07-11 Charles Lepple <clepple+nut@gmail.com>

- NEWS, data/driver.list.in, docs/man/Makefile.am, docs/man/asem.txt, docs/man/index.txt: asem: documentation

2.1870 2014-07-07 Giuseppe Corbelli <giuseppe.corbelli@copanitalia.com>

- configure.ac, data/driver.list.in, drivers/Makefile.am, drivers/asem.c: Support for ASEM UPS on Linux/i2c Patch from http://article.gm gmane.comp.monitoring.nut.devel/6723 Thread: http://news.gmane.org/find-root.php?message_id=53A83FCB.1080808%40copanita Builds on Ubuntu 12.10 and 14.04; requires libi2c-dev

2.1871 2014-07-05 Charles Lepple <clepple+nut@gmail.com>

- drivers/tripplite_usb.c: tripplite_usb: fix typos in bin2d() and control_outlet() (0.27)
- drivers/tripplite_usb.c: tripplite_usb: control_outlet() for protocol 3005 (0.26)
- drivers/tripplite_usb.c: tripplite_usb: Additional 3005 protocol support (0.25) http://news.gmane.org/find-root.php?message_id=CAFe
- drivers/tripplite_usb.c: tripplite_usb: basic support for 3005 binary protocol (0.24) Based on logs from SMART500RT1U

2.1872 2014-07-04 vesnn <metanoite@rambler.ru>

- drivers/powercom.c: Update powercom.c Fix Powercom Imperial initialization for models since 2009 with USB interface.

2.1873 2014-06-30 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: add new *fabula* USB subdriver Add a new USB subdriver (*fabula*) to support models manufactured/rebranded by Fideltronik and accompained by UPSilon2000 software. Reference: http://lists.alioth.debian.org/pipermail/nut-upsuser/2014-June/009059.html

2.1874 2014-06-26 Daniele Pezzini <hyouko@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: add new *fuji* USB subdriver Add a new USB subdriver (*fuji*) to support models manufactured by Fuji (and others) and accompained by UPSmart2000I software.

2.1875 2014-06-23 Arnaud Quette <arnaud.quette@free.fr>

- scripts/python/app/nut-monitor.appdata.xml: Create a FreeDesktop AppData file for NUT Monitor appData files provide to users long descriptions, screenshots and other useful information on application. This will mainly serve for Software Center like applications

2.1876 2014-06-19 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Lacerda New Orion 800VA with blazer_usb http://news.gmane.org/find-root.php?message_id=CANDysWwq

2.1877 2014-06-17 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: add APC-Microsol entry for solis
- drivers/solis.c: solis: silence clang warnings about extra parentheses Since we're in the neighborhood (#133)... Typically, the idiom is either: if (a == b) for equality checking, or: if ((a = b)) for assignment with a comparison.
- drivers/solis.c, drivers/solis.h: solis: eliminate fixed-length string buffer for model name The new APC model name overflows the buffer. (#133)

2.1878 2014-06-16 bsalvador <bruno.salvador@gmail.com>

- drivers/solis.c: Update on solis.c to add more support to Back-UPS 1200BR
- drivers/solis.c: Update solis.c to support Microsol-APC Unit. Added support to Back-UPS 1200BR (Microsol-APC) unit.

2.1879 2014-06-15 Charles Lepple <clepple+nut@gmail.com>

- docs/man/upscli_get.txt, docs/man/upscli_list_next.txt, docs/man/upscli_list_start.txt: docs: synchronize upscli_* numq/numa with header There were a few leftover signed int parameters in the man pages, but the headers and implementation use *unsigned int*. Closes: https://github.com/networkupstools/nut/issues/131
- docs/man/solis.txt: docs: mention APC in Microsol driver man page
- docs/man/apcsmart.txt: docs: point APC Microsol users from apcsmart to solis Also make some of the formatting and grammar self-consistent.
- drivers/solis.c: solis: recognize APC BZ1200-BR and BZ2200BI-BR (0.62) Patch suggested by Bruno Salvador for BZ1200-BR, and also tested by Douglas A. Augusto on BZ2200BI-BR. Reference: * http://forums.freenas.org/index.php?threads/-nobreak-bz1200-br-back-ups-rs-1200va-600w-bivolt-115-nt.20247/ * http://news.gmane.org/find-root.php?message_id=CACu22%2d

2.1880 2014-06-08 Arnaud Quette <arnaud.quette@free.fr>

- scripts/subdriver/gen-snmp-subdriver.sh: Inline documentation fixes

2.1881 2014-06-03 george <rpubaddr0@gmail.com>

- scripts/python/module/PyNUT.py: Fixed version description.
- scripts/python/module/PyNUT.py: Added author information, bumped version. According to the semantic versioning scheme (http://semver.org/), adding features that do not break backwards compatibility with previous releases means that the minor version number should be incremented.
- scripts/python/module/PyNUT.py: Change format of raise keyword. Fixes PyNUT Python 3 compatibility.
- scripts/python/module/PyNUT.py: PyNUT: Create a custom exception class. This maintains backwards compatibility, and allows calling programs to use "except PyNUTError" instead of "except Exception" when using PyNUT methods. See https://wiki.python.org/moin/HandlingExceptions for more information.
- scripts/python/module/PyNUT.py: Fix error when raising without an Exception. Raising without a valid exception is invalid: >>> raise Traceback (most recent call last): File "<stdin>", line 1, in <module> TypeError: exceptions must be old-style classes or derived from BaseException, not NoneType >>> raise Exception Traceback (most recent call last): File "<stdin>", line 1, in <module> Exception Changing this to "raise Exception" fixes this problem.

2.1882 2014-06-01 Charles Lepple <clepple+nut@gmail.com>

- docs/man/tripplite_usb.txt, drivers/tripplite_usb.c: tripplite_usb: last tweaks, for now. Initialize bv_12V to a dummy value, since gcc can't see that it is used in the union of both conditionals where it is set. Also, align the documentation with the strange definition of empty used by the Tripp Lite state-of-charge approximation.
- drivers/tripplite_usb.c: tripplite_usb: silence warning (0.23) Pedantic, to be sure, but someone might try the driver with a protocol not listed, and sure enough, bv_12V won't be initialized.
- docs/man/tripplite_usb.txt, drivers/tripplite_usb.c: tripplite_usb: expose battery_min/_max as variables (0.22) http://news.gmane.org/-find-root.php?message_id=21370.36829.817425.464627%40godel.bruda.ca

2.1883 2014-05-27 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: GRAFENTHAL PR-3000-HS supported by snmp-ups Tested with 2.6.5-3 (0.68) on Windows (IETF MIB 1.4). Some NUT variables are zero - further testing may be needed. Reference: http://news.gmane.org/find-root.php?message_id=

2.1884 2014-05-23 Charles Lepple <clepple+nut@gmail.com>

- drivers/tripplite_usb.c: tripplite_usb: use dv/dq charge calculation for all models (0.21)

2.1885 2014-05-20 Andrew Burdo <zeezooz@gmail.com>

- drivers/powercom-hid.c: Add comments for some values.
- drivers/usbhid-ups.c: Reuse variable.
- drivers/usbhid-ups.c: Add default case.

2.1886 2014-05-18 Charles Lepple <clepple+nut@gmail.com>

- drivers/genericups.c: genericups: log cable type overrides as they are parsed Fixes nut#28 Better than nothing, but without a unit to test against, I don't want to make any more intrusive changes.
- scripts/upower/95-upower-hid.rules: upower: regenerate rules file USB VID:PID = 10af:0004 This dependency graph makes my head spin.
- configure.ac: version to 2.7.2.5 for snapshots

2.1887 2014-05-13 Daniele Pezzini <hyouko@gmail.com>

- drivers/compaq-mib.c: compaq-mib: comment out no longer used items As per 31827d5faa86377efb7a92b7aec322cc4c7a275f

2.1888 2014-05-03 Daniele Pezzini <hyouko@gmail.com>

- docs/download.txt: docs: add Void Linux in download/Binary packages Reference: https://github.com/networkupstools/nut/-issues/125

2.1889 2014-05-03 Charles Lepple <clepple+nut@gmail.com>

- docs/Makefile.am: docs: add mge-usb-rj45.jpg to distribution

2.1890 2014-05-02 Arnaud Quette <arnaud.quette@free.fr>

- docs/images/cables/mge-usb-rj45.jpg: Add MGE information on USB-RJ45 cable The illustration matching the previous commit was still needed on the nut repository, and not on the nut-website on
- docs/cables.txt: Add MGE information on USB-RJ45 cable These information were provided by MGE years ago, and were waiting for counter testing. Martin De Graaf - Loyer has now fixed this. Note that the matching illustration will be committed on the new nut-website repository

2.1891 2014-04-29 Andrew Burdo <zeezooz@gmail.com>

- drivers/powercom-hid.c, drivers/usbhid-ups.c: Bump versions.
- data/driver.list.in, docs/man/usbhid-ups.txt: Update documentation.
- drivers/usbhid-ups.c: Reconnect on interrupt read error.
- drivers/libhid.c, drivers/libhid.h, drivers/powercom-hid.c, drivers/usbhid-ups.c: Reading from the interrupt pipe implies that you use INPUT flagged objects.
- drivers/powercom-hid.c: Remove erroneous status.
- drivers/powercom-hid.c: Comment non-compliant variables.

2.1892 2014-04-17 Stephen J. Butler <stephen.butler@gmail.com>

- drivers/tripplite-hid.c: Scale for SMART1500LCDT

2.1893 2014-04-17 Arnaud Quette <arnaud.quette@free.fr>

- NEWS, UPGRADING, configure.ac: Update for release 2.7.2 Complete the release information for NUT 2.7.2

2.1894 2014-04-17 Andrew Burdo <zeezooz@gmail.com>

- drivers/libhid.c, drivers/libhid.h, drivers/powercom-hid.c, drivers/usbhid-ups.c: Add support for 0d9f:0001 (USB HID, Powercom).

2.1895 2014-04-07 Arnaud Quette <arnaud.quette@free.fr>

- drivers/compaq-mib.c: Fix erroneous status in HP/Compaq SNMP MIB Using the most recent HP firmware (1.76), erroneous on-battery status were reported. Also disable an erroneous low-battery definition (pointing nowhere), while waiting for actual improvements (report and patch from Philippe Andersson ; Closes nut#117)

2.1896 2014-04-06 Daniele Pezzini <hyouko@gmail.com>

- drivers/mge-xml.c: mge-xml: fix compile-time warnings, versioning

2.1897 2014-04-05 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Numeric Digital 800 plus USB VID:PID = 0665:5161 Reference: nut#115 (blazer_usb @ 2.6.4; waiting for confirmation with nutdrv_qx)
- data/driver.list.in: HCL: Eaton Powerware 3105 supported by bcmxcp_usb Closes nut#117
- data/driver.list.in, drivers/belkin-hid.c: usbhid-ups/belkin-hid: add support for Emerson Network Power Liebert PSI 1440 USB VID:PID = 10af:0004 http://article.gmane.org/gmane.comp.monitoring.nut.user/8479

2.1898 2014-04-05 Arnaud Quette <arnaud.quette@free.fr>

- drivers/al175.c: Fix data format warnings on all architectures Complete commit 7daa0feb6ed4f1c29bfe14c8e491ba198a4ba643, and actually fix some of the warnings related data format. Also bump al175 driver revision
- clients/Makefile.am: Update libupsclient library version information Following the recent export of libcommon functions in libupsclient, update the library version information to 4:0:0

2.1899 2014-04-04 Arnaud Quette <arnaud.quette@free.fr>

- drivers/al175.c: Fix data format warnings Fix a few warnings related data format, in debug code
- clients/Makefile.am: Add libnutclient library version information Add the missing LDFLAGS for adding version information

2.1900 2014-03-21 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: [HCL] CABAC UPS-1700DV2 supported by blazer_usb Reported by jammin84 Closes #113
- clients/Makefile.am, common/Makefile.am: Link libupsclient with libcommon Fix undefined references related to functions of libcommon. This issue was reported on Debian: https://bugs.debian.org/731156 (patch from Matthias Klose ; Closes Github issue #73)

2.1901 2014-03-18 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: [HCL] Digitus DN-170014 supported by richcomm_usb Reference: http://lists.alioth.debian.org/pipermail/-nut-upsdev/2014-March/006695.html -or- http://news.gmane.org/find-root.php?message_id=CADq9dvWMx0xBz9XXkVKXCre4ox

2.1902 2014-03-05 Émilien Kia <emilien.kia@gmail.com>

- scripts/Aix/nut-aix.spec.in: Make web source path independant from specific version.
- scripts/Aix/nut-aix.spec.in: Use configure-dependant variables instead of statically defined ones for user and group.
- configure.ac: Use $target_cpu instead of calling uname to know cpu type. Fix crosscompilation.

2.1903 2014-03-05 Emilien Kia <EmilienKia@Eaton.com>

- scripts/Windows/Installer/NUT-Installer.xml: Modify version in Windows installer description file.

2.1904 2014-03-05 Charles Lepple <clepple+nut@gmail.com>

- UPGRADING: Added note about --enable-option-checking=fatal Closes #99 (really)

2.1905 2014-03-04 Emilien Kia <EmilienKia@Eaton.com>

- clients/upsmon.h: Define a NOTIFY_DEFAULT flag, use it to initialize upsmon. (Part of change for Windows branch, to minimize differences with master) Also fixes NOTIFY_CAL to have same settings as everyone else.
- clients/upsmon.h: Define a NOTIFY_DEFAULT flag, use it to initialize upsmon. (Part of change for Windows branch, to minimize differences with master) Also fixes NOTIFY_CAL to have same settings as everyone else.
- scripts/Windows/Installer/NUT-Installer.xml: Add Windows registry entry for NUT installation path.
- docs/man/upsmon.conf.txt, docs/man/upsmon.txt: Add upsmon default flag for Windows notice in documentation.
- conf/upsmon.conf.sample.in: Update upsmon config to note that Windows only writes to syslog on Windows by default.
- clients/upsmon.h: Use only NOTIFY_SYSLOG as default notify flag in upsmon for Windows. Define a NOTIFY_DEFAULT flag. Set it accordingly to platform. Use it to initialize upsmon.

2.1906 2014-03-03 Émilien Kia <emilien.kia@gmail.com>

- drivers/nutdrv_qx.h: Detect if TRUE (and FALSE) are already defined and define bool_t accordingly.

2.1907 2014-03-03 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: various updates * Closes https://github.com/networkupstools/nut/issues/107 * http://lists.alioth.debian.org/-pipermail/nut-upsdev/2013-November/006564.html * http://news.gmane.org/find-root.php?message_id=50D9D460.1080408%40gma * http://news.gmane.org/find-root.php?message_id=CA%2b4duQ%3dppW%2bPz%2bRVPVXJyFLj0HErh1ZOtm5tk8b6n5Nd5kSk0 * http://news.gmane.org/find-root.php?message_id=528EC53C.9000801%40me.com
- docs/nut-qa.txt: NUT QA document: updated and reworded
- docs/nut-qa.txt: NUT QA document: CR→LF
- docs/FAQ.txt: FAQ: minor updates Update the bestfortress entry, fix the mythicbeasts URL, and reword a few entries.

2.1908 2014-02-28 Emilien Kia <EmilienKia@Eaton.com>

- scripts/Windows/Installer/NUT-Installer.xml: Fix Windows Installer file list. Use splitted Blazer driver html man pages (ser & usb).

2.1909 2014-02-27 Arnaud Quette <arnaud.quette@free.fr>

- UPGRADING: Add a note on Hardware Abstraction Layer removal
- INSTALL.nut, autogen.sh, configure.ac, docs/Makefile.am, docs/configure.txt, docs/developers.txt, docs/features.txt, docs/-macros.txt, docs/new-drivers.txt, docs/nut-hal.txt, docs/packager-guide.txt, drivers/Makefile.am, drivers/dstate-hal.c, drivers/dstate-hal.h, drivers/main-hal.c, drivers/main-hal.h, m4/nut_check_libhal.m4, m4/nut_config_libhal.m4: Remove the remaining HAL files and references Remove the remaining build rules, source code and documentation related to the FreeDesktop Hardware Abstraction Layer (HAL) support. For the record, with this HAL implementation, NUT drivers were sending data over DBus (Closes: #99)

2.1910 2014-02-26 Arnaud Quette <arnaud.quette@free.fr>

- scripts/Makefile.am, scripts/README, scripts/hal/.gitignore, scripts/hal/Makefile.am, tools/nut-usbinfo.pl: Remove the generation of HAL support files Remove the code supporting the generation of HAL FDI file. This is the first commit of a set to address Github issue #99
- drivers/snmp-ups.c: Fix snmp-ups segmentation fault A basic sanity check was missing in the core code of snmp-ups, causing a driver crash under some specific circumstances, at driver initialisation time. Hence, this does not affect production systems
- README, UPGRADING, docs/FAQ.txt, docs/config-notes.txt, drivers/Makefile.am, scripts/Solaris/nut.in, scripts/Solaris/-postinstall.in, scripts/Solaris/preremove.in, scripts/systemd/nut-driver.service.in, scripts/systemd/nutshutdown.in: Closes #96: Install upsdrvctl to $prefix/sbin Install upsdrvctl to $prefix/sbin rather than $driverexec. upsdrvctl has been historically standing beside the drivers. It now resides in the system binaries ($prefix/sbin) directory

2.1911 2014-02-25 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-hid.c: Add improved support for Eaton 5P Add the necessary hooks to improve support for Eaton 5P range. This includes post-processing of the model name, along with handling rules for battery voltage (actual and nominal)

2.1912 2014-02-24 Charles Lepple <clepple+nut@gmail.com>

- drivers/blazer_usb.c, drivers/libusb.c, drivers/nutdrv_qx.c, drivers/riello_usb.c, drivers/usbhid-ups.c: OpenBSD ports tree patches for EPROTO Closes nut#44

2.1913 2014-02-20 Arnaud Quette <ArnaudQuette@Eaton.com>

- drivers/mge-hid.c: Fix "no OFF status in "ups.status" although UPS is switched off" and "OB status in "ups.status" although power supply is present" in mge-hid driver. Fix problem up from Schleicher.
- drivers/mge-hid.c: Fix "no OFF status in "ups.status" although UPS is switched off" and "OB status in "ups.status" although power supply is present" in mge-hid driver. Fix problem up from Schleicher.

2.1914 2014-02-19 Daniele Pezzini <hyouko@gmail.com>

- docs/Makefile.am, docs/chunked.xsl, docs/common.xsl, docs/xhtml.xsl: docs: prevent smartphones from being too smart (docbook) Add HTML <meta> tag to not auto-create telephone number links on mobile browsers also in docbook processed documents. Reference: https://github.com/networkupstools/nut/issues/78 XSL files source: - https://github.com/asciidoc/asciidoc/-blob/master/docbook-xsl/common.xsl - https://github.com/asciidoc/asciidoc/blob/master/docbook-xsl/xhtml.xsl - https://github.com/-asciidoc/asciidoc/blob/master/docbook-xsl/chunked.xsl
- docs/man/asciidoc.conf: docs: prevent smartphones from being too smart Add HTML <meta> tag to not auto-create telephone number links on mobile browsers. Reference: https://github.com/networkupstools/nut/issues/78

2.1915 2014-02-15 Arnaud Quette <arnaud.quette@free.fr>

- docs/acknowledgements.txt: Update NUT team membership for Daniele Pezzini Daniele Pezzini is a now a NUT senior developer

2.1916 2014-02-14 Charles Lepple <clepple+nut@gmail.com>

- Makefile.am: devd: use staging directory for distcheck
- drivers/Makefile.am, drivers/snmp-ups.c, drivers/xppc-mib.c, drivers/xppc-mib.h: snmp-ups: add XPPC-MIB for Tripp Lite SU10KRT3/1X
- scripts/subdriver/gen-snmp-subdriver.sh: gen-snmp-subdriver.sh: documentation updates

2.1917 2014-02-14 Arnaud Quette <arnaud.quette@free.fr>

- docs/acknowledgements.txt, docs/website/news.txt: Formalizing the end of the relationship with Eaton The situation of the relationship with Eaton has evolved, and since 2011 Eaton does not support NUT anymore. This may still evolve in the future. But for now, please do not consider anymore that buying Eaton products will provide you with official support from Eaton, or a better level of device support in NUT.
- docs/acknowledgements.txt: Update NUT team membership for Frédéric Bohe Frederic Bohe, NUT senior developer and Eaton contractor from 2009 to 2013, is now a retired member. Thanks for all the hard work on the Windows port, nut-scanner, Unix packaging, support, ... Also update the developers membership page, from Alioth to GitHub

2.1918 2014-02-13 Charles Lepple <clepple+nut@gmail.com>

- docs/man/upsimage.cgi.txt: upsimage.cgi(8): update GD homepage

2.1919 2014-02-13 Arnaud Quette <arnaud.quette@free.fr>

- .gitignore, server/.gitignore: Minor completion to gitignore files Add a few more exotic targets, related to debug or official distribution

2.1920 2014-02-11 Daniele Pezzini <hyouko@gmail.com>

- .gitignore, clients/.gitignore, common/.gitignore, conf/.gitignore, data/.gitignore, data/html/.gitignore, docs/.gitignore, docs/man/.gitignore, docs/website/.gitignore, docs/website/scripts/.gitignore, drivers/.gitignore, include/.gitignore, lib/.gitignore, m4/.gitignore, scripts/.gitignore, scripts/HP-UX/.gitignore, scripts/Solaris/.gitignore, scripts/augeas/.gitignore, scripts/avahi/.gitignore scripts/hal/.gitignore, scripts/hotplug/.gitignore, scripts/python/.gitignore, scripts/systemd/.gitignore, scripts/udev/.gitignore, scripts/ufw/.gitignore, server/.gitignore, tests/.gitignore, tools/.gitignore, tools/nut-scanner/.gitignore: Simplify gitignore files Remove redundancies and old/svn things. Limit the scope wherever it makes sense. Ignore all cscope files and test logs. Make ignoring generated files easier to maintain.

2.1921 2014-02-11 Charles Lepple <clepple+nut@gmail.com>

- drivers/libshut.c: libshut: partially revert PnP/RTS change Reported by Baruch Even. It is unclear how this will work after running nut-scanner, but it is more important to keep the drivers working. Reference: 65db105 / 2013-09-24T08:18:00Z!fredericbohe@eat Closes: nut#91

2.1922 2014-02-10 Charles Lepple <clepple+nut@gmail.com>

- scripts/subdriver/gen-snmp-subdriver.sh: gen-snmp-subdriver.sh: fix option typos * Use *-M* for MIB directories, to match snmpwalk and the help text. * Add space before *-c* in snmpwalk (not sure how this worked before)
- scripts/Makefile.am: cosmetic: Indent scripts/Makefile.am EXTRA_DIST continuation lines
- scripts/Makefile.am: Add gen-snmp-subdriver.sh to distribution tarball

2.1923 2014-02-09 Daniele Pezzini <hyouko@gmail.com>

- docs/man/nutdrv_qx.txt: nutdrv_qx: update manpage for the newly supported Voltronic Power P98 units
- drivers/nutdrv_qx.c, drivers/nutdrv_qx_mecer.c, drivers/nutdrv_qx_mecer.h: nutdrv_qx: improve support for *(ACK/(NAK* and Voltronic Power P98 UPSes In *mecer* subdriver's claim function try to get protocol (QPI, for Voltronic Power devices) used by the UPS: - supported devices are Voltronic Power's P98 units - if the UPS doesn't support the QPI command, use its reply to identify whether it uses *(ACK\r/(NAK\r* replies This way we can catch *(ACK/(NAK* devices, while previously the *mecer* subdriver was *hidden* by the *megatec* (echo back/*ACK/NAK*) one. Plus Q1 units with *ACK/NAK* replies or echoing back not supported and rejected commands are no longer wrongly *claimed* by the *mecer* subdriver.

2.1924 2014-02-03 Daniele Pezzini <hyouko@gmail.com>

- docs/.gitignore, docs/Makefile.am, docs/documentation.txt: docs: build PDF also for cables.txt

2.1925 2014-02-02 Daniele Pezzini <hyouko@gmail.com>

- Makefile.am, configure.ac, docs/.gitignore, docs/Makefile.am, docs/man/.gitignore, docs/man/Makefile.am, docs/stable-hcl.txt, docs/user-manual.txt, docs/website/.gitignore, docs/website/Makefile.am, docs/website/css/ie-overrides.css, docs/website/css/web-layout.css, docs/website/css/xhtml11-quirks.css, docs/website/css/xhtml11.css, docs/website/faviconut.ico, docs/website/faviconut.png, docs/website/news.txt, docs/website/old-news.txt, docs/website/projects.txt, docs/website/scripts/.gitignore, docs/website/scripts/filter_png.js, docs/website/scripts/jquery.js, docs/website/scripts/nut_jquery.js, docs/website/scripts/toc.js, docs/webs protocols.txt, docs/website/web-layout.conf, docs/website/website.txt, tools/Makefile.am, tools/nut-hclinfo.py: website: move to a standalone website

2.1926 2014-01-31 Ronaldo Yamada <rhyamada@gmail.com>

- drivers/nutdrv_qx.c: nutdrv_qx: add new *sgs* USB subdriver to support TS Shara units

2.1927 2014-01-31 Daniele Pezzini <hyouko@gmail.com>

- docs/man/nutdrv_qx.txt: nutdrv_qx: update man page for new *sgs* USB subdriver

2.1928 2014-01-18 Daniele Pezzini <hyouko@gmail.com>

- docs/net-protocol.txt: docs: fix a couple of asciidoc errors in net-protocols.txt
- server/netlist.c: net-protocol: fix closing line of LIST RANGE

2.1929 2014-01-16 Charles Lepple <clepple+nut@gmail.com>

- drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: fix permissions-based crash, and enable vendor variable (1.1)

2.1930 2014-01-13 Emilien Kia <EmilienKia@Eaton.com>

- drivers/upsdrvctl.c: Fix Windows driver starting model and add comments.
- drivers/upsdrvctl.c: Add basic Windows wait for launch process. Wait for process return or timeout Look at returned code.

2.1931 2014-01-13 Charles Lepple <clepple+nut@gmail.com>

- .gitignore: Ignore cscope.out
- docs/man/.gitignore, docs/man/nutdrv_atcl_usb.txt, drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: documentation and logging (v1.0)

2.1932 2014-01-11 Daniele Pezzini <hyouko@gmail.com>

- drivers/blazer_ser.c, drivers/blazer_usb.c: blazer: fix man page references
- data/driver.list.in: HCL: add Atlantis Land/Voltronic Power units supported by nutdrv_qx
- drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_blazer-common.h: nutdrv_qx: fix nutdrv_qx_blazer-common.{c,h} header comments
- docs/man/nutdrv_qx.txt, docs/nutdrv_qx-subdrivers.txt: nutdrv_qx: update manuals for new *voltronic-qs* subdriver

2.1933 2014-01-11 Charles Lepple <clepple+nut@gmail.com>

- drivers/apc-mib.c: snmp-ups: APC SmartBoost and SmartTrim are OL SmartBoost and SmartTrim are voltage regulation functions that prevent the UPS from using the battery during brownouts and overvoltages, so the BOOST and TRIM states are also mapped to OL. Reference: http://article.gmane.org/gmane.comp.monitoring.nut.devel/6583
- data/driver.list.in: [HCL] MicroDowell B.Box LP 500: genericups type 7 Closes nut#83 From @lxp: UPS shutdown only works when on-battery and has a delay of about 1min until execution (something between 50sec to 1min 30sec on mine). References: http://www.ezdirect.it/pdf/lp500.pdf https://forums.gentoo.org/viewtopic-t-730172-start-0.html
- docs/man/nutdrv_atcl_usb.txt, drivers/nutdrv_atcl_usb.c: nutdrv_atcl: match iManufacturer (vendor) string
- docs/man/snmp-ups.txt: snmp-ups: update and edit documentation

2.1934 2014-01-01 Charles Lepple <clepple+nut@gmail.com>

- drivers/nutdrv_atcl_usb.c: nutdrv_atcl_usb: adjusted logging and retries (v0.02)
- data/driver.list.in, docs/man/Makefile.am, docs/man/index.txt, docs/man/nutdrv_atcl_usb.txt: nutdrv_atcl_usb: man page and HCL entries

2.1935 2013-12-31 Laurent Bigonville <bigon@bigon.be>

- .gitignore, INSTALL ⇒ INSTALL.nut, Makefile.am, docs/FAQ.txt, docs/Makefile.am, docs/configure.txt, docs/packager-guide.txt, docs/user-manual.txt: Rename INSTALL to INSTALL.nut Rename it to INSTALL.nut so autoreconf will not try to overwrite it. In Debian tools like dh_autoreconf calls autoreconf with -f which overwrite the INSTALL file.

2.1936 2013-12-31 Charles Lepple <clepple+nut@gmail.com>

- drivers/.gitignore, drivers/Makefile.am, drivers/nutdrv_atcl_usb.c, tools/nut-usbinfo.pl: nutdrv_atcl_usb: *ATCL FOR UPS* new driver Reference: http://news.gmane.org/find-root.php?message_id=%3c52B4C54E.1050106%40ariwainer.com.ar%3e
- drivers/libusb.c, drivers/usb-common.h: Move USB_TIMEOUT to usb-common.h

2.1937 2013-12-27 Charles Lepple <clepple+nut@gmail.com>

- scripts/subdriver/gen-usbhid-subdriver.sh: usbhid-ups: fix call to is_usb_device_supported() The is_usb_device_supported() function now takes a USBDevice_t* instead of a pair of USB ID values.

2.1938 2013-12-22 Florian Bruhin <nut@the-compiler.org>

- data/driver.list.in, docs/man/powercom.txt, drivers/powercom.c: Add OptiUPS VS 575C support to PowerCom Reference: http://news.gmane.org/find-root.php?message_id=%3c20131126085646.GM28832%40lupin%3e

2.1939 2013-12-11 Denis Yantarev <denis.yantarev@gmail.com>

- drivers/blazer_usb.c, drivers/nutdrv_qx.c: Fixed incorrectly reported Ippon response length

2.1940 2013-12-05 Daniele Pezzini <hyouko@gmail.com>

- drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_voltronic-qs.c, drivers/nutdrv_qx_voltronic-qs.h: nutdrv_qx: add Voltronic-QS subdriver (nutdrv_qx protocol=voltronic-qs) A subdriver using a protocol, specific to UPSes manufactured by Voltronic Power, based on the *mustek* one (i.e. *QS*).

2.1941 2013-11-30 Daniele Pezzini <hyouko@gmail.com>

- docs/man/nutdrv_qx.txt, drivers/nutdrv_qx.c, drivers/nutdrv_qx_blazer-common.c, drivers/nutdrv_qx_blazer-common.h, drivers/nutdrv_qx_megatec-old.c, drivers/nutdrv_qx_mustek.c, drivers/nutdrv_qx_q1.c: nutdrv_qx: fix *megatec/old* and *mustek* subdrivers' claim functions Address, for *megatec/old* and *mustek* subdrivers, the same problem fixed in commit 720975f4de910b270ba705a7f2981c2ee33ca2eb for Q1-based ones: - Make the claim function of *megatec/old* and *mustek* subdrivers not poll the UPS for *vendor* informations as they are not really needed to set these protocols apart from the other ones (i.e. the *status* poll is specific enough, at the time of writing). - Move common *light* claim function to nutdrv_qx_blazer-common.{c,h}. - Update manual. - Versioning.

2.1942 2013-11-24 Daniele Pezzini <hyouko@gmail.com>

- docs/nutdrv_qx-subdrivers.txt: nutdrv_qx: improve developer manual Get rid of useless tables. Fix minor errors/typos.
- drivers/nutdrv_qx.c: nutdrv_qx: versioning
- docs/man/nutdrv_qx.txt, docs/nutdrv_qx-subdrivers.txt: nutdrv_qx: update manuals for new Q1 subdriver and improve readability

2.1943 2013-11-23 Daniele Pezzini <hyouko@gmail.com>

- drivers/Makefile.am, drivers/nutdrv_qx.c, drivers/nutdrv_qx_q1.c, drivers/nutdrv_qx_q1.h: nutdrv_qx: add new *fallback* Q1 subdriver Add new *Q1* subdriver. This subdriver implements the same protocol as the one used by the *megatec* subdriver minus the vendor (I) and ratings (F) queries. In the claim function: - it doesn't even try to get *vendor* informations (I) - it checks only status (Q1), through *input.voltage* variable Therefore it should be able to work even if the UPS doesn't support vendor/ratings **and** the user doesn't use the *novendor/norating* flags, as long as: - the UPS replies a Q1-compliant answer (i.e.

not necessary filled with all of the Q1-required data, but at least of the right length and with not available data filled with some replacement character) - the UPS reports a valid input.voltage (used in the claim function) - the UPS reports valid status bits (1st, 2nd, 3rd, 6th, 7th are the mandatory ones) This commit reintroduces a functionality of the blazer subdrivers that was lost because now, in order to tell whether a device is supported by a subdriver or not, if the user doesn't call the driver with the *novendor* flag, both the status (Q1) and the vendor (I/FW?) queries are needed (that's to better discern the subdrivers). Reference: http://lists.alioth.debian.org/pipermail/nut-upsuser/2013-November/008692.html

2.1944 2013-11-23 Charles Lepple <clepple+nut@gmail.com>

- configure.in ⇒ configure.ac: Rename configure.in to configure.ac autoconf has been warning about this for a while - let's fix it before too many branches get created with the old name.
- configure.in: bump version to 2.7.1.5 Some packaging systems don't like the -pre# system.

2.1945 2013-11-21 Laurent Bigonville <bigon@bigon.be>

- docs/man/ups.conf.txt, docs/man/upsdrvctl.txt, drivers/upsdrvctl.c: Provide retry options for upsdrvctl and driver(s) As recently seen in Debian (bugs #694717 and #677143), it may be required to have upsdrvctl retrying to start the driver in case of failure. More specifically, a mix of init system (V and systemd), udev and USB device(s) can result in the /dev entry not being available at driver startup, thus resulting in a general failure to start NUT. This commit provides at least a way to overcome this issue. A more suitable solution will require more work on NUT design. This patch if based on Arnaud Quette proposal

2.1946 2013-11-20 Arnaud Quette <arnaud.quette@free.fr>

- Makefile.am: Maintainers targets: distribution signature / hashes Create some handy targets to ease and automate release publication

2.1947 2013-11-19 Charles Lepple <clepple+nut@gmail.com>

- configure.in: configure: update version to 2.7.1
- docs/website/news.txt: news: add 2.7.1 release
- Makefile.am: ChangeLog: use full path to generator script
- docs/website/projects.txt: website: update related project links

2.1948 2013-11-18 Kirill Smelkov <kirr@mns.spb.ru>

- MAINTAINERS, docs/man/.gitignore, docs/man/Makefile.am, docs/man/al175.txt, docs/man/index.txt, docs/man/nutupsdrv.txt, docs/new-drivers.txt, drivers/Makefile.am, drivers/al175.c: al175: updated driver, please restore it Back in 2005 I was young and idealistic, that's why you finally marked al175 as *broken*, but now I understand your points (some) and that in NUT you need good portability. So this time I've checked that al175 compiles with CC="gcc -std=c89 -pedantic", and CC="gcc -std=c99 -pedantic" Also, I've tried to clean-up the driver based on feedback from 2009, but unfortunately I no longer have hardware to test and will not have any in foreseable future, so the driver was reworked to meet the project code quality criteria, without testing on real hardware. Some bugs may have crept in. Changes since last posting in 2009:
  - patch rebased on top of current master (v2.6.5-400-g214c442); - added reference to COMLI communication protocol document; - status decode errors go to log, instead of setting non-conformant status like "?T", "?OOST", etc. For such errors new loglevel is allocated; - "High Battery" status is back; - converted tracing macros to direct use of upsdebugx and numbers 1,2,3,4 for loglevels as requested (but now lines got longer because of explicit *func* usage); - lowered usage of other macros (e.g. REVERSE_BITS inlined); - alarm(3) is not used anymore - instead whole I/O transaction time budget is maintained manually; - man page converted to asciidoc and supported variables list is merged into it; - upsdebug_ascii moved to common.c and to separate patch. ¯\~ Changes since al175 was removed from NUT tree in 2008: - alloca was eliminated through the help of automatic variables - debugging/tracing were reworked to (almost always) use NUT builtins

  - al175 now uses 3 debug levels for (1=user-level info, 2=protocol debugging, 3=I/O tracing) - rechecked http://eu1.networkupstools.o doc/2.2.0/developers.html and applied where apporpiate Also > This driver does not support upsdrv_shutdown(), which makes > it not very useful in a real world application. This alone > warrants *experimental* status, but for the below mentioned > reasons (to name a few), it's flagged *broken* instead. Yes, at present shutdown is not supported, and unfortunately now I don't have AL175 hardware at hand, so that I can't write it and verify the implementation. I've marked the driver as DRV_EXPERIMENTAL, although it was tested by us as part of our systems to work OK for more than three years in production environment on ships (and we don't need shutdown there — in critical situations the system has to operate as long as possible, untill the battery is empty) Also, all of the previous issues listed below are now fixed in this al175 version: - 'return' with a value, in function returning void (2x) - anonymous variadic macros were introduced in C99 - C+\+ style comments are not allowed in ISO C90 - ISO C forbids braced-groups within expressions (5x) - ISO C90 forbids specifying subobject to initialize (16x) - ISO C99 requires rest arguments to be used (18x) Yes, "All the world is not an x86 Linux box," and I've tried to make all the world happy. Please apply. Thanks, Kirill.

- common/common.c, docs/developers.txt, include/common.h: common: upsdebug_ascii() - to dump a message in ascii For debugging ASCII-based protocols with control characters (e.g. COMLI) it is handy to dump messages not in hex, but in ascii with human readable codes. Add utility function to do it.

2.1949 2013-11-18 Arnaud Quette <arnaud.quette@free.fr>

- NEWS: Minor reordering of the news

2.1950 2013-11-17 Charles Lepple <clepple+nut@gmail.com>

- docs/man/.gitignore, drivers/.gitignore: apcupsd-ups: ignore generated files
- drivers/apcupsd-ups.c: apcupsd-ups: fix cut-n-paste error
- drivers/apcupsd-ups.c: apcupsd-ups 0.04: use O_NONBLOCK instead of FIONBIO
- NEWS, docs/man/index.txt: apcupsd-ups: add NEWS and man page link
- UPGRADING: Mention upsrw output change.
- docs/man/nut-recorder.txt: Reword nut-recorder man page
- UPGRADING: link to man pages for changed drivers
- configure.in: Bump version to 2.7.1-pre2
- NEWS, UPGRADING: Update NEWS and UPGRADING for 2.7.1 Closes: networkupstools#37
- data/driver.list.in: HCL: StarPower PCF-800VA Reported by Don. Reference: http://news.gmane.org/find-root.php?message_id=%3c0
- data/driver.list.in: HCL: Atlantis Land A03-P551(V1.2) supported by blazer_usb Reported by Giovanni Panozzo. Reference: http://news.gmane.org/find-root.php?message_id=%3c51B76B0C.1080109%40panozzo.it%3e Note that blazer_usb will eventually be replaced by nutdrv_qx.
- clients/nutclient.h, clients/upsclient.c, conf/upsmon.conf.sample.in, configure.in, docs/FAQ.txt, docs/man/libnutclient.txt, docs/man/libnutclient_general.txt, docs/man/upsmon.conf.txt, docs/security.txt, drivers/powerman-pdu.c, server/netssl.c: Replace *connexion* with *connection* in English contexts Also reworded a few phrases surrounding the replacements.
- docs/man/.gitignore: asciidoc: ignore all generated blazer*.html files
- data/driver.list.in: HCL: update CyberPower entries, including CP900AVR Reported by Craig Duttweiler Reference: http://news.gman find-root.php?message_id=%3c51295F86.4080601%40twistedsanity.net%3e
- docs/stable-hcl.txt: GitHub issues can also be used to report HCL updates
- docs/website/projects.txt: Update links to related projects
- docs/download.txt: Update download page * Re-added link to Buildbot snapshot generator * Updated a few links

2.1951 2013-11-13 Daniele Pezzini <hyouko@gmail.com>

- docs/man/.gitignore, drivers/.gitignore: Add nutdrv_qx to .gitignore files and remove voltronic from them

2.1952 2013-11-13 Charles Lepple <clepple+nut@gmail.com>

- drivers/blazer_ser.c: windows_port: remove conflict markers from blazer_ser.c

2.1953 2013-11-12 Daniele Pezzini <hyouko@gmail.com>

- docs/man/nutdrv_qx.txt: nutdrv_qx: fix cross links in manpage Remove links to voltronic manuals. Fix links to blazer manuals.

2.1954 2013-11-12 Charles Lepple <clepple+nut@gmail.com>

- docs/man/Makefile.am: a2x: use --destination-dir This option seems to work now. Previously, Asciidoc source files were copied to the destination directory, but this did not account for included files.
- .gitignore: git: ignore test-driver, and sort ignores list test-driver is apparently part of automake, generated for libcpp unit tests.

2.1955 2013-11-10 Daniele Pezzini <hyouko@gmail.com>

- clients/upsrw.c: upsrw: publish also the maximum length of STRING rw variables

2.1956 2013-11-10 Charles Lepple <clepple+nut@gmail.com>

- docs/man/Makefile.am: Include blazer-common.txt in built tarball

2.1957 2013-11-09 Daniele Pezzini <hyouko@gmail.com>

- docs/website/scripts/nut_jquery.js: HCL: Improve readability of nut_jquery.js
- docs/website/scripts/nut_jquery.js: HCL: make support-level filter show items with a *higher or equal* level Reference: https://github.com/networkupstools/nut/issues/48#issuecomment-28134135
- data/driver.list.in: nutdrv_qx: readd HCL's items lost with the revert of the voltronic merge
- data/driver.list.in: nutdrv_qx: remove superfluous indications from the HCL
- data/driver.list.in, docs/Makefile.am, docs/man/Makefile.am, docs/man/index.txt, docs/man/{blzr.txt ⇒ nutdrv_qx.txt}, docs/man/nutupsdrv.txt, docs/new-drivers.txt, . . . lzr-subdrivers.txt ⇒ nutdrv_qx-subdrivers.txt}, drivers/Makefile.am, drivers/{blzr.c ⇒ nutdrv_qx.c}, drivers/{blzr.h ⇒ nutdrv_qx.h}, . . . r_blazer-common.c ⇒ nutdrv_qx_blazer-common.c}, . . . r_blazer-common.h ⇒ nutdrv_qx_blazer-common.h}, drivers/{blzr_mecer.c ⇒ nutdrv_qx_mecer.c}, drivers/{blzr_mecer.h ⇒ nutdrv_qx_mecer.h}, . . . {blzr_megatec-old.c ⇒ nutdrv_qx_megatec-old.c}, . . . {blzr_megatec-old.h ⇒ nutdrv_qx_megatec-old.h}, drivers/{blzr_megatec.c ⇒ nutdrv_qx_megatec.c}, drivers/{blzr_megatec.h ⇒ nutdrv_qx_megatec.h}, drivers/{blzr_mustek.c ⇒ nutdrv_qx_mustek.c}, drivers/{blzr_mustek.h ⇒ nutdrv_qx_mustek.h}, . . . /{blzr_voltronic.c ⇒ nutdrv_qx_voltronic.c}, . . . /{blzr_voltronic.h ⇒ nutdrv_qx_voltronic.h}, drivers/{blzr_zinto.c ⇒ nutdrv_qx_zinto.c}, drivers/{blzr_zinto.h ⇒ nutdrv_qx_zinto.h}, tools/nut-usbinfo.pl: nutdrv_qx: rename *blzr* driver to *nutdrv_qx* Reference: http://lists.alioth.debian.org/pipermail/nut-upsdev/2013-November/006555.html
- docs/stable-hcl.txt, docs/website/css/web-layout.css: Address Issue #48 (text-based browsers) Reference: https://github.com/networkupstools/nut/issues/48#issuecomment-28107101

2.1958 2013-11-08 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/projects.txt: Cleanup NUT related projects

2.1959 2013-11-04 Daniele Pezzini <hyouko@gmail.com>

- drivers/blzr_voltronic.c: blzr: Fix log message
- drivers/blzr_voltronic.c: blzr: Fix compile-time error Reference: http://lists.alioth.debian.org/pipermail/nut-upsdev/2013-November/-006549.html
- drivers/blzr_blazer-common.c, drivers/blzr_blazer-common.h: blzr: Fix blzr_blazer-common.{c,h} header comments

2.1960 2013-11-04 Charles Lepple <clepple+nut@gmail.com>

- include/Makefile.am: nut_include.h: fail gracefully if git fails Fix proposed by Jim Klimov.

2.1961 2013-11-03 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in, docs/man/.gitignore, docs/man/Makefile.am, docs/man/index.txt, docs/man/voltronic_ser.txt, docs/man/voltronic_us drivers/Makefile.am, drivers/voltronic.c, drivers/voltronic.h, drivers/voltronic_ser.c, drivers/voltronic_usb.c, tools/nut-usbinfo.pl: Revert "Merge branch *voltronic-driver*" This reverts commit de07fc7f5e7f68b91507b2bf3d4d3b92b774c3ed, reversing changes made to a074844f88ca352780dd881b5fa3c435832d165e. The voltronic funtionality will be a subdriver of the new blazer driver.
- docs/stable-hcl.txt: HCL: typos
- data/driver.list.in, docs/stable-hcl.txt: HCL: minor cleanup Remove a duplicate Tripp Lite entry, and add a missing "a".
- docs/stable-hcl.txt: HCL documentation: reword
- data/driver.list.in, docs/acknowledgements.txt: HCL: incorporate Tripp Lite test results Source: http://article.gmane.org/-gmane.comp.monitoring.nut.user/8173
- docs/Makefile.am, docs/website/Makefile.am: HCL: additional dependencies Apparently still not complete, though.
- docs/website/scripts/nut_jquery.js: HCL JavaScript: make key case-insensitive Also special-case the spelling change for Tripp Lite. TODO: make the value matching case-insensitive as well.
- docs/website/scripts/nut_jquery.js: HCL JavaScript: update the USB-matching code Slightly more accurate, but later on we should really track the connection type as a first-class attribute for each entry in the HCL. Matching the driver name is brittle.
- docs/website/scripts/nut_jquery.js, tools/nut-hclinfo.py: HCL generation: don't combine driver names The Python and JavaScript code for generating the HCL was combining adjacent drivers even when the support level was different. This clutters up the driver list a bit, but presents a more accurate picture of support levels.

2.1962 2013-10-28 Michal Soltys <soltys@ziu.info>

- docs/man/apcsmart.txt: apcsmart: minor man update A short note about availabilty of apcsmart-old.
- docs/man/apcsmart.txt, drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: string/comment/text trivial changes

2.1963 2013-10-27 Charles Lepple <clepple+nut@gmail.com>

- tools/nut-scanner/nutscan-device.c: [nut-scanner] Remove unused variable

2.1964 2013-10-26 Charles Lepple <clepple+nut@gmail.com>

- configure.in: Define _REENTRANT for all Solaris and AIX platforms. This is essentially the final commit in pull request #39.

2.1965 2013-10-25 Daniele Pezzini <hyouko@gmail.com>

- drivers/blazer.c: blazer: Support UPSes that reply *(ACK* when an instant command succeeds
- drivers/blazer.c: blazer: Fix a discrepancy in the handling of instant commands Check if the reply we got back from the UPS is *ACK* also for the commands stored in the array.
- drivers/blzr.c: blzr: Cosmetic changes
- drivers/blzr_megatec-old.c, drivers/blzr_megatec.c, drivers/blzr_mustek.c, drivers/blzr_zinto.c: blzr: Remove duplicates in the testing struct
- docs/blzr-subdrivers.txt, docs/man/blzr.txt, drivers/Makefile.am, drivers/blzr.c, drivers/blzr_mecer.c, drivers/blzr_mecer.h: blzr: Add Mecer subdiver (blzr protocol=mecer) A subdriver covering an idiom similar to the one used by the megatec subdriver, but with these peculiarities: - if a command/query is rejected or invalid, the UPS will reply *(NAK\r* - if a command succeeds, the UPS will reply *(ACK\r*

2.1966 2013-10-24 Frédéric BOHE <fredericbohe@eaton.com>

- drivers/mge-hid.c: Fix wrong OFF status reported when on battery. UPS.BatterySystem.Charger.PresentStatus.Used is not related to UPS outputs being on or off but rather to the charger being on or off.

2.1967 2013-10-18 Vaclav Krpec <VaclavKrpec@Eaton.com>

- tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c, tools/nut-scanner/scan_nu Nutscan fix and enhancement Closes #60 (GitHub Pull Request via fbohe)
- docs/man/netxml-ups.txt, drivers/mge-xml.c, drivers/mge-xml.h, drivers/netxml-ups.c: netxml: added RW access, fixed FSD/shutdown duration bugs, etc. * Fixed bugs in resolution of FSD condition and computation of shutdown duration. * Added System.* UPS variables. * Enabled RW access to appropriate UPS variables. * Added UPS veriables value convertors. * Added support for XML protocol v3 {GET\|SET}_OBJECT query implementing getvar and setvar routines. * netxml driver man page updated to include info about the driver-specific configuration parameters. Closes #59 (GitHub pull request: "Enhancement for netxml driver") Pull request by: Frédéric BOHE <fredericbohe@eaton.com>
- clients/upsc.c, clients/upscmd.c, clients/upslog.c, clients/upsrw.c: Fix AIX linkage of do_upsconf_args() Closes #58 (GitHub pull request "Fix AIX build") (cherry picked from commit 5fc7518f97d2738d791c3c77f2257d05e3a9da3b)

2.1968 2013-10-17 Daniele Pezzini <hyouko@gmail.com>

- docs/man/blazer-common.txt: blazer: Cosmetic changes
- drivers/blazer_ser.c, drivers/blazer_usb.c: blazer: Fix blazer_{ser,usb} \+ TESTING Those things are useless when TESTING is defined
- docs/man/blazer-common.txt: blazer: Fix user manuals {Serial,USB}-specific sections belong to *Extra arguments* section
- drivers/blazer_ser.c, drivers/blazer_usb.c: blazer: Versioning
- drivers/blazer.c: blazer: Add more log infos in instcmd
- docs/blzr-subdrivers.txt: blzr: Improve developer manual Add note on how to group items in blzr2nut array.
- drivers/blzr_voltronic.c: blzr: Fix switch/case Forgot to break at the end of the case
- docs/man/blzr.txt, drivers/blzr.c, drivers/blzr_voltronic.c: blzr: Cosmetic changes

2.1969 2013-10-16 Frédéric BOHE <fredericbohe@eaton.com>

- drivers/powerware-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: Fix Low Battery detection with ConnectUPS cards The low battery OID itself cannot be read directly. Low battery alarms OID appears in an alarm array.

2.1970 2013-10-16 Daniele Pezzini <hyouko@gmail.com>

- docs/man/Makefile.am, docs/man/{blazer.txt ⇒ blazer-common.txt}, docs/man/blazer_ser.txt, docs/man/blazer_usb.txt, docs/man/index.txt, docs/man/nutupsdrv.txt: blazer: Fix {usb,ser} manual Split the old blazer manual in two manuals named after their executables with a common source.
- docs/man/blazer.txt: blazer: Fix user manual Fix minor errors Add ranges Fix test.battery.start (i.e. minutes instead of seconds)
- drivers/blazer.c: blazer: Fix shutdown sequence Split stop pending shutdown and shutdown itself so that if we have problems stopping the shutdown (e.g. there's no shutdown pending and the UPS, because of that, echoes back the command) we can still shutdown the UPS.
- drivers/blazer.c: blazer: Fix minor error in battery guesstimation We need both battery.voltage.low and battery.voltage.high to *guesstimate* the battery charge
- drivers/blazer.c: blazer: Fix test.battery.start T00 doesn't make any sense: the range should be 01-99 minutes
- drivers/blazer.c: blazer: Fix shutdown.return *SnR0000* is meant to put the UPS down and not return *Sn* should be used instead when ondelay is 0
- drivers/blazer.c: blazer: Fix shutdown delay *offdelay* as used by this driver is meant to be in the .2-.9 (12..54 seconds) and 01-10 (60..600 seconds) range.
- data/driver.list.in, docs/Makefile.am, docs/blzr-subdrivers.txt, docs/man/Makefile.am, docs/man/blzr.txt, docs/man/index.txt, docs/man/nutupsdrv.txt, docs/new-drivers.txt, drivers/Makefile.am, drivers/blzr.c, drivers/blzr.h, drivers/blzr_blazer-common.c, drivers/blzr_blazer-common.h, drivers/blzr_megatec-old.c, drivers/blzr_megatec-old.h, drivers/blzr_megatec.c, drivers/blzr_megatec.h drivers/blzr_mustek.c, drivers/blzr_mustek.h, drivers/blzr_voltronic.c, drivers/blzr_voltronic.h, drivers/blzr_zinto.c, drivers/blzr_zinto drivers/dstate-hal.c, drivers/dstate-hal.h, tools/nut-usbinfo.pl: blzr: New driver *blzr* New driver for Q* UPSes. Based on blazer, usbhid-ups and voltronic driver. This might address Issue #25
- scripts/python/Makefile.am, scripts/python/app/gui-1.3.glade, . . . /app/locale/it/LC_MESSAGES/NUT-Monitor.mo, scripts/python/app/locale/it/it.po, scripts/python/app/nut-monitor.desktop: Add italian translation
- scripts/python/app/locale/fr/fr.po: Add source of french translation
- scripts/python/app/gui-1.3.glade.h, scripts/python/app/locale/NUT-Monitor.pot: Add translation sources

2.1971 2013-10-04 Frédéric BOHE <fredericbohe@eaton.com>

- clients/upssched.c: Fix Linux compilation

2.1972 2013-10-04 Frederic BOHE <fredericbohe@eaton.com>

- include/common.h, server/sstate.c, server/upsd.c: Fix weird difftime behavior

2.1973 2013-10-03 Frederic BOHE <fredericbohe@eaton.com>

- INSTALL.nut, clients/Makefile.am, clients/message.c, clients/nutclient.cpp, clients/upsclient.c, clients/upslog.c, clients/upsmon.c, clients/upssched.c, common/snprintf.c, drivers/clone.c, drivers/libhid.h, drivers/libshut.h, drivers/serial.c, drivers/serial.h, drivers/snmp-ups.h, drivers/usbhid-ups.c, drivers/usbhid-ups.h, include/common.h, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http Try to get rid of warnings

- .gitignore, scripts/Windows/.gitignore, scripts/Windows/Installer/.gitignore, scripts/Windows/Installer/ImageFiles/Others/.gitignore: Update gitignore for Windows
- drivers/Makefile.am: Remove useless link to intl which break compilation on Linux
- clients/Makefile.am, common/Makefile.am, common/wincompat.c, drivers/Makefile.am, drivers/apcsmart.c, drivers/dstate.c, drivers/netxml-ups.c, drivers/riello_usb.c, drivers/serial.c, drivers/serial.h, drivers/upsdrvctl.c, scripts/Windows/Installer/NUT-Installer.xml, scripts/Windows/wininit.c, server/sstate.c, server/upsd.c, tools/nut-scanner/Makefile.am, tools/nut-scanner/nutscan-serial.c, tools/nut-scanner/scan_eaton_serial.c: Fix compilation on Windows

2.1974 2013-10-02 Frédéric BOHE <fredericbohe@eaton.com>

- data/driver.list.in: [HCL] update Eaton UPS

2.1975 2013-10-02 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: [HCL] Add support for Eaton 5S Add Eaton 5S (USB ID 0x0463:0xffff) to the list of usbhid-ups supported models (reported by Matt Ivie)

2.1976 2013-09-30 Frédéric BOHE <fredericbohe@eaton.com>

- drivers/libshut.c: Increment driver revision

2.1977 2013-09-28 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c: bcmxcp: Fix handling of date and time format The date and time bytes are packed BCD, so it must be properly decoded. The check for the Julian or Month:Day format was wrong Info on format taken from http://old.networkupstools.org/-protocols/eaton/XCP_Rev_C1_Public_021309.pdf
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for some more meters and one more command Add mapping for PW_SET_TIME_AND_DATE command. Add mapping for input.bypass.voltage, input.bypass.L1-N.voltage, input.bypass.L2-N.voltage, input.bypass.L3-N.voltage. Add mapping for input.bypass.frequency. Add mapping for ups.power.nominal if provided as meter, it was previously only set on init. Change mapping for ups.realpower for single phase. Tested on Eaton PW9130.
- drivers/bcmxcp.c: bcmxcp: Remove newline on debug output for outlets

2.1978 2013-09-27 unknown <C9983617@GREFRWHP6009826.euro.ad.etn.com>

- clients/Makefile.am: Fix upsclient link after rebase

2.1979 2013-09-26 Frédéric BOHE <fredericbohe@eaton.com>

- Makefile.am, clients/upsclient.c, clients/upsmon.c, clients/upsmon.h, clients/upssched.c, common/Makefile.am, common/common.c, common/wincompat.c, docs/Makefile.am, docs/configure.txt, drivers/apc-mib.c, drivers/apcsmart.c, drivers/bcmxcp_usb.c, drivers/belkinunv.c, drivers/bestuferrups.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dstate.c, drivers/genericups.c, drivers/isbmex.c, drivers/main.c, drivers/nut-libfreeipmi.c, drivers/serial.c, drivers/serial.h, drivers/upsdrvctl.c, include/common.h, include/wincompat.h, scripts/Windows/README, scripts/Windows/wininit.c, server/conf.c, server/netssl.c, server/sstate.c, server/upsd.c, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: More changes after rebase
- scripts/Windows/DriverInstaller/nutscan-usb.h: Some fixes after rebase

2.1980 2013-09-24 Frédéric BOHE <fredericbohe@eaton.com>

- drivers/libshut.c, tools/nut-scanner/scan_eaton_serial.c: Change RTS init level for PnP devices Setting RTS line to 1 disturbs communication with some devices using serial plug and play feature. So we need to initialize it to 0.

2.1981 2013-09-07 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add support for Forza FX-1500LCD Add Forza FX-1500LCD (USB ID 0x0665:0x5161) to the list of blazer_usb supported models (reported by Gabor Tjong A Hung)
- data/driver.list.in: Add Schneider APC AP9630 SNMP management card Add Schneider APC AP9630 SNMP management card to the list of snmp-ups supported models. Note that it requires the option "privProtocol=AES" to work (reported by Tim Rice)
- drivers/.gitignore: Git ignore drivers/voltronic_{ser,usb} Add drivers/voltronic_{ser,usb} to the list of Git ignored files

2.1982 2013-08-28 Daniele Pezzini <hyouko@gmail.com>

- docs/website/css/web-layout.css: Improve CSS readability
- docs/stable-hcl.txt, docs/website/css/web-layout.css: Address Issue #48 Move legend out of filters' block. (HTML\+CSS)

2.1983 2013-08-28 Charles Lepple <clepple+nut@gmail.com>

- packaging/RedHat/.gitignore, packaging/debian/.gitignore, packaging/mandriva/.gitignore, packaging/opensuse/.gitignore: Remove .gitignore files from long-gone packaging directory.

2.1984 2013-08-10 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c: bcmxcp: Add instcmd for system test capabilities based on what UPS support

2.1985 2013-08-09 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Code restructure, declare variables at top of method After re-reading code style, compiled with -pedantic, and got some warnings, so moved variable declarations to the top of methods
- drivers/bcmxcp.c, drivers/bcmxcp_io.h, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c: bcmxcp: Reformat code, remove tabs in the middle of lines. No code changes After re-reading the developer code style guide, use spaces and not tabs in the middle of lines to align text
- drivers/bcmxcp.h: bcmxcp: Reformat code, remove tabs in the middle of lines. No code changes After re-reading the developer code style guide, use spaces and not tabs in the middle of lines to align text
- drivers/bcmxcp.c: bcmxcp: Refactor code, use if-else if rather than 4 if statements

2.1986 2013-08-08 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c: bcmxcp: Add parameter to nut_find_infoval to control debug output We do not want debug output if nut_find_infoval does not find a mapped value in all cases. For example, when a command byte is not mapped to a instcmd, we do not want debug output.
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Remove PW_UPDATE_POWER_SOURCE_STATUS_COMMAND, it seems very unlikely to be used
- drivers/bcmxcp.h: bcmxcp: Cosmetic changes constant definitions. No code changes.

- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Use command map to control which instcmd are supported Use the command map info retrieved from UPS to list all commands supported by the UPS at debug level 2. Use the info from command map to set up which instcmd the UPS supports.
- drivers/bcmxcp.c: bcmxcp: Use info_lkp_t structure for mapping topology info Make code simpler by using the info_lkp_t structure for mapping value from topology block to text presented to user as ups.description
- drivers/bcmxcp.c: bcmxcp: Cosmetic commentary fixes and remove some empty lines. No code changes
- drivers/bcmxcp.c: bcmxcp: Output unsupported alarms on debug level 3, not level 2 The supported alarms in alarm map is outputted at debug level 2. The unsupported alarms should be outputted at debug level 3, it is not that interesting. Also remove debug outputted empty line after table heading line for meter map and alarm map.
- drivers/bcmxcp.c: bcmxcp: Refactor code for setting which alarms are supported, to avoid code duplication Refactor the code which checks the alarm map for supported alarms, by making a new method which checks the alarm bit to see if the alarm is supported.
- drivers/bcmxcp.c: bcmxcp: Only include ups.serial and device.part if they have a value Only set info about ups.serial and device.part if the UPS actually report useful info for these. Remove the handling of space characters as meaning string termination for ups.serial, this is not done for part number, and according to bcmxcp spec are these both 16 byte ascii text messages. Move Nominal output frequence handling up, placing it just below Nominal output voltage

2.1987 2013-08-04 Charles Lepple <clepple+nut@gmail.com>

- docs/man/index.txt, docs/man/voltronic_ser.txt, docs/man/voltronic_usb.txt: voltronic* documentation updates - Add to man page index - Reword a few sections - Fix typos - Comment out USB section in voltronic_ser.txt Long-term, we should probably figure out a better way to maintain two parallel driver pages like this. The blazer man page is the same for both, with .so links for the man pages, but then you have USB info in a serial driver page. For now, voltronic_usb.txt is just a copy of voltronic_ser.txt with a few _ser-to-_usb replacements.

2.1988 2013-08-01 Daniele Pezzini <hyouko@gmail.com>

- drivers/voltronic.c: Get rid of *god.knows* variables

2.1989 2013-07-26 Arnaud Quette <arnaud.quette@free.fr>

- drivers/powercom-hid.c: Forgotten subdriver version bump

2.1990 2013-07-25 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/upsc.txt, docs/man/upscmd.txt, docs/man/upsrw.txt: Complete upsclient commands usage note Add a note for scripting usage, for upsc, upscmd and upsrw, to state the obvious: only consider the output from stdout for data requested. stderr may contain error messages, which can disrupt your script execution. Address the second task and closes Github issue #30
- clients/upsclient.c: Fix a minor regression in upsclient output NSS support has introduced a minor regression in upsclient output. Clients such as upsc, upscmd and upsrw were particularly affected. This patch restores a default behavior similar to prior versions. However, "-v" option remains to be implemented. Address the first task of Github issue #30

2.1991 2013-07-24 Frédéric BOHE <fredericbohe@eaton.com>

- configure.in: Fix wrong errno reported by connect on Solaris Closes issue #43
- clients/upsclient.c: Fix connect in multi-threaded environnement on AIX Closes issue #42

2.1992 2013-07-24 Charles Lepple <clepple+nut@gmail.com>

- docs/website/web-layout.conf: Add GitHub link to website sidebar

2.1993 2013-07-23 Frédéric BOHE <fredericbohe@eaton.com>

- clients/upsclient.c: Fix nut-scanner crash on nut server scan, upscli_sslinit calls upscli_readline which might calls upscli_disconnect in case of error. upscli_disconnect frees ups→host and set it to NULL, so it is illegal to use ups→host after a call to upscli_sslinit.
- clients/Makefile.am: Fix connect in multi-thread environnement on Solaris
- tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_eaton_ tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: [nut-scanner] Make sure to return the first device of the list.

2.1994 2013-07-23 Charles Lepple <clepple+nut@gmail.com>

- clients/Makefile.am: Revert "Fix connect in multi-thread environnement on Solaris" This reverts the previous commit. It overwrites the CFLAGS which specifies one of the key include directories.

2.1995 2013-07-22 Charles Lepple <clepple+nut@gmail.com>

- docs/download.txt: Download information: reference Git
- configure.in: Bump NUT version to 2.7.1-pre1

2.1996 2013-07-21 Charles Lepple <clepple+nut@gmail.com>

- include/Makefile.am: nut_version.h: trim tag characters through first slash

2.1997 2013-07-16 Sven Putteneers <sven.putteneers@gmail.com>

- scripts/python/app/NUT-Monitor: NUT-Monitor: parse battery.runtime as float Without this patch, I get a flood of "Invalid literal for int with base 10: '28500.00" errors. http://news.gmane.org/find-root.php?message_id=%3c51E54B99.9030908%40gmail.com

2.1998 2013-07-10 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/news.txt, docs/website/projects.txt: Reference walNUT Gnome Shell extension

2.1999 2013-07-09 Elio Parisi <E.Parisi@riello-ups.com>

- drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c: riello: whitespace fixes, and read nominal values only once Bumped driver versions to 0.02

2.2000 2013-07-09 Charles Lepple <clepple+nut@gmail.com>

- drivers/riello_ser.c, drivers/riello_usb.c: riello: suppress some warnings about %lu versus %u

2.2001 2013-07-07 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add support for reading topology map and setting ups.description based on it
- drivers/bcmxcp.c: bcmxcp: Initialize variables in calculate_ups_load method
- drivers/bcmxcp.c: bcmxcp: Output more info hardware capabilities in debug mode Add some more debug output on driver init, to let us know what the hardware support. Outputs length of alarm history log, topology block length and maximum supported command length.
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for input.quality to meters
- drivers/bcmxcp.c: bcmxcp: Add Alf Høgemark as one of the authors for the driver
- drivers/bcmxcp.c: bcmxcp: Only calculate ups.load if the UPS does not report it directly If the UPS does not report a meter mapped to ups.load, we try to calculate the ups.load, but we do not calculate it if the UPS can report the ups.load directly
- drivers/bcmxcp.c: bcmxcp: Use defined constants in setvar, and handle BCMXCP_RETURN_ACCEPTED_PARAMETER_ADJUST Use the defined constants from header file, instead of magic numbers in setvar method. Add handling of BCMXCP_RETURN_ACCEP Report upsdrv_comm_good on successful execution of setvar to UPS.
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add handling of BCMXCP_RETURN_ACCEPTED_PARAMETER_ADJUST and others in ACK block Add support for handling more return statuses when exeucting commands, the most important being BCMXCP_RETURN_ACCEPTED_PARAMETER_ADJUST, which means the command was executed. The others added all handles cases where command was not executed, but you now get a more detailed entry in log as to why it was not executed.
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for output.L<phase>.power to meters Not tested on hardware, due to lack of hardware supporting it
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for battery.current.total to meters Not tested on hardware, due to lack of hardware supporting it

2.2002 2013-07-06 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for input.realpower to meters input.realpower is not listed in http://www.networkupstools.org/docs/developer-guide.chunked/apas01.html, but other drivers use it. Not tested on hardware, due to lack of hardware supporting it
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for ambient.1.temperature to meters Not tested on hardware, due to lack of hardware supporting it
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for input.power to meters input.power is not listed in http://www.networku docs/developer-guide.chunked/apas01.html, but other drivers use it. Not tested on hardware, due to lack of hardware supporting it
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for output.powerfactor and input.powerfactor to meters input.powerfactor is not listed in http://www.networkupstools.org/docs/developer-guide.chunked/apas01.html, so a bit unsure if this should be added. Not tested on hardware, due to lack of hardware supporting it
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add mapping for output.L<phase>.power.percent to meters Not tested on hardware, due to lack of hardware supporting it
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: map ups.date and ups.time to meters. Not testes on hardware, due to lack of hardware supporting it
- drivers/bcmxcp.h: bcmxcp: Comment which meter map constants are mapped to nut variables

2.2003 2013-07-05 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Add constants for all bcmxmp meter map, and replace magic numbers with constants Take all the bcmxcp meter map defined in http://old.networkupstools.org/protocols/eaton/XCP_Meter_Map_021309.pdf and put them into the bcmxcp.h file. Update the bcmxcp.c file, replacing magic numbers for meter map by using the corresponding defined constant.

2.2004 2013-07-04 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c: bcmxcp: Let decode_instcmd_exec also handle short read from UPS
- drivers/bcmxcp.c: bcmxcp: Add test.panel.start instcmd support
- drivers/bcmxcp.c: bcmxcp: Use one fuction to decode command execution status in all places To avoid duplicating the logic which checks the status of command execution at UPS, add a new function which contains the check, and use that function whenever we send a command to UPS and get status back from UPS.
- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: Define byte for choosing which system test to run in header file
- drivers/bcmxcp.c: bcmxcp: Fix outlet number for outlet.x.shutdown.return if more than 2 outlets
- drivers/bcmxcp.c: bcmxcp: Let upsdrv_shutdown call instcmd for shutting down To avoid code duplication between upsdrv_shutdown and instcmd, let the upsdrv_shutdown method first try to issue a shutdown.return instcmd, and then proceed with shutdown.stayoff if the shutdown.return failed. This seems to be in line with what the usbhid driver does.
- drivers/bcmxcp.c: bcmxcp: report upsdrv_comm_good at successful execution of instcmd
- drivers/bcmxcp.c: bcmxcp: Return more specific error codes from instcmd Use the available STAT_INSTCMD_FAILED and STAT_INSTCMD_INVALID as return value from the instcmd method when applicable, instead of always returning STAT_INSTCMD_UNKNOWN or -1.

2.2005 2013-07-03 Charles Lepple <clepple+nut@gmail.com>

- drivers/bcmxcp.c: bcmxcp: indentation fixes (no code changes)

2.2006 2013-07-03 Alf Høgemark <alf@i100.no>

- drivers/bcmxcp.c, drivers/bcmxcp.h: bcmxcp: use command map if supplied. If UPS supplies command map, use it to control what commands we register with dstate_addcmd. If UPS does not supply command map, we register default commands with dstate_addcmd
- data/cmdvartab, drivers/bcmxcp.c: bcmxcp: cosmetic: make changes by Prachi Gandhi more coherent with rest of driver
- drivers/bcmxcp.c: bcmxcp: Fix method name outputted in debug message Reference: http://article.gmane.org/gmane.comp.monitoring 6458 Whitespace was addressed in previous commit (clepple)
- drivers/bcmxcp.c: bcmxcp: add ups.load and battery.voltage.low Adapted slightly for bcmxcp branch (original patch was against master). Bump driver version to 0.28 as well. (clepple) Reference: http://article.gmane.org/gmane.comp.monitoring.nut.devel/- 6460

2.2007 2013-06-18 Daniele Pezzini <hyouko@gmail.com>

- drivers/voltronic.c: Add unknown/unused and commented capability entries Might be useful for future versions.
- data/driver.list.in: Add devices to HCL
- drivers/voltronic.c, drivers/voltronic_ser.c, drivers/voltronic_usb.c: Fix warning flag \+ versioning Some UPSes seem to reply with a \0 just before the end of the warning flag (obtained with QWS), as a consequence of that, the string in C is 1 char shorter than expected (the \r is not within the string). → Fix voltronic_warning function. Increase driver versions.
- drivers/voltronic.c, drivers/voltronic_ser.c, drivers/voltronic_usb.c: Fix shutdown.return \+ versioning Fix shutdown.return when ondelay = 0 → split between offdelay < 60 and offdelay > 60. Increase driver versions.

2.2008 2013-06-17 Daniele Pezzini <hyouko@gmail.com>

- docs/man/voltronic_ser.txt, docs/man/voltronic_usb.txt: Correct typos @shutdown.{return,stayoff}
- drivers/voltronic.c, drivers/voltronic_ser.c, drivers/voltronic_usb.c: Imrove shutdown sequence \+ versioning Split shutdown and stopping of pending shutdowns so that if there's no shutdown pending and the UPS doesn't accept a shutdown.stop in this situation (i.e. it replies *(NAK)* the shutdown procedure doesn't get halted. Increase version number of drivers.
- data/driver.list.in: Correct typos & add software reference in HCL
- docs/man/voltronic_ser.txt, docs/man/voltronic_usb.txt: Improve docs layout
- drivers/voltronic_usb.c: Add USBDevice_t structure
- drivers/voltronic_usb.c: Add comment so that autogen rules have the right comment
- drivers/voltronic_ser.c, drivers/voltronic_usb.c: Correct manpage references

2.2009 2013-06-14 Vaclav Krpec <VaclavKrpec@Eaton.com>

- scripts/Aix/nut-aix.spec.in, scripts/Aix/nut.init: AIX: packaging & init script improvements (cherry picked from commit ce195e3a2eff1abbd8e192f4d3e278017d7ffb21)

2.2010 2013-06-12 Vaclav Krpec <VaclavKrpec@Eaton.com>

- scripts/Aix/nut.init: Fixed client startup detection (cherry picked from commit 23df5e811cc9008bfa0a37bd174b59890a3760a6)
- scripts/Aix/nut-aix.spec.in: Fixed AIX RPM specfile (cherry picked from commit 11ba37bf36dcda0398c8c62fab838dd00e54c5db)

2.2011 2013-06-11 Vaclav Krpec <VaclavKrpec@Eaton.com>

- scripts/Aix/nut-aix.spec.in: Allow libneon-based XML driver & scanning for AIX (cherry picked from commit 4c2e89ec584b2015b22

2.2012 2013-06-10 Vaclav Krpec <VaclavKrpec@Eaton.com>

- clients/Makefile.am: Fix of AIX-specific parseconf linking bug Added dummy do_upsconf_args to binaries that use libcommon to satisfy the linker. libcommon links libparseconf, which calls do_upsconf_args supplied from above as an implementation-specific routine. (cherry picked from commit 0078f9383d3a7af4f3edfed6c78de387a12c6b2b)

2.2013 2013-05-14 Bo Kersey <bo@vircio.com>

- drivers/bestfcom.c: bestfcom: Use fc.idealbvolts for calculating percent charge *I have a Best Ferrups 3.1KVA and I noticed that the percent battery voltage reported from upsc never gets above 69.9%. I believe there is a mistake in the driver. The battery percentage is calculated based on the High Battery Alarm Setpoint (59.6V) instead of the Ideal Voltage which is about 54V (4 batteries x 13.6V). I examined the source code and found that the variable fc.fullvolts is the result of querying parameter 67 from the UPS. This parameter is defined per Ferrups Tip 503 as: "The battery voltage at which the UPS sound a High Battery alarm" A better value to use in determining the percent battery voltage would be fc.idealbvolts which is calculated in the driver source... I propose the following patch to fix the battery.charge (% battery full) reading.* Ref: http://article.gmane.org/gmane.comp.monitoring.nut.user/7891

2.2014 2013-05-13 Michal Soltys <soltys@ziu.info>

- docs/nut-names.txt: Add device.uptime to nut-names.txt Also fix one typo.
- docs/man/apcsmart.txt, drivers/apcsmart.c: apcsmart: allow users to select non-canonical tty mode The main reason behind this addition is windows compatibility, see http://article.gmane.org/gmane.comp.monitoring.nut.user/7762 IGNCR has been readded earlier in commit 20c52bee77fa0b3ea3c7f8bec25afd103b7ff4a2 - this might be enough to handle windows behavior, but if it's not the case - using non canonical processing (same as is present in apcsmart-old) should solve any pressing issues.
- drivers/apcsmart_tabs.c: apcsmart: add device.uptime to vartab

2.2015 2013-05-03 Andrew Avdeev <andrew.avdeev@gmail.com>

- drivers/powercom-hid.c: PowerCOM BNT-1000AP HID instant commands Adds a few vendor-specific HID mappings for PowerCOM. Instant commands supported on UPS [pcm]: beeper.disable - Disable the UPS beeper beeper.enable - Enable the UPS beeper beeper.toggle - Toggle the UPS beeper load.off - Turn off the load immediately load.on - Turn on the load immediately shutdown.return - Turn off the load and return when power is back shutdown.stayoff - Turn off the load and remain off test.battery.start.quick - Start a quick battery test http://article.gmane.org/gmane.comp.monitoring.nut.devel/6435

2.2016 2013-04-27 Charles Lepple <clepple+nut@gmail.com>

- include/Makefile.am: nut_version.h: remove SVN plumbing This should eliminate the "Unversioned directory" message. The source of the version information is also listed in nut_version.h Closes Github issue #15

2.2017 2013-04-26 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart.c, drivers/apcsmart_tabs.h: apcsmart: remove APC_DEPR flag APC_{MULTI, PRESENT} are both sufficient for handling 1:n and n:1 relations

2.2018 2013-04-25 Vaclav Krpec <VaclavKrpec@Eaton.com>

- clients/Makefile.am, clients/upsclient.c, configure.ac: linupsclient: NUT scanning on AIX bugfix 1/ A simmilar bug like in Solaris is in AIX itself---non-blocking connect may return -1 while errno == 0. Shall be treated as EINPROGRESS. 2/ Linking of libupsclent.so on AIX requires libcommon, otherwise scanning for NUT crashes with SIGSEGV on unresolved usplogx (cherry picked from commit 16177f99bc995852bb86d2183958f24f11993632)

2.2019 2013-04-25 Christian Wiese <christian.wiese@securepoint.de>

- tools/nut-scanner/Makefile.am, tools/nut-scanner/scan_usb.c: nut-scanner: fix scan_usb to remove trailing spaces from output strings This patch uses rtrim() from libcommon to remove trailing spaces from serialnumber, device_name and vendor_name. see: https://github.com/networkupstools/nut/issues/26

2.2020 2013-04-22 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart.c: apcsmart: expand APC_MULTI to apc:nut 1:n cases

2.2021 2013-04-18 Arnaud Quette <arnaud.quette@free.fr>

- docs/new-drivers.txt: Add a reference to the SNMP subdrivers chapter

2.2022 2013-04-16 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart.c: apcsmart: remove strchr() check from legacy_verify() As vartab doesn't contain characters from APC_UNR_CMD

2.2023 2013-04-15 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart.c, drivers/apcsmart_tabs.c: apcsmart: change approach to 2 digit compatibility entries As reported in http://article.gma gmane.comp.monitoring.nut.user/7762 - 2 digit values reported through *b* are really >255V voltage values. So we match whole 00 - FF set as single (fake) compat entry.
- drivers/apcsmart.h: apcsmart: re-add CR to ignore sets Despite icanon mode, windows (supposedly) is uncapable of ignoring CR in fashion analogous to IGNCR flag. See http://article.gmane.org/gmane.comp.monitoring.nut.user/7762 for rationale.
- drivers/apcsmart_tabs.c: apcsmart: add regex format to ambient.0.temperature *T* might (on older units) also mean "ups uptime", so we want to distinguish that case gracefully. The formats are: uptime: 000.0 temp: 00.00
- drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c, drivers/apcsmart_tabs.h: apcsmart: move variable regex matching into vartab This also allows us to properly validate (in near future) cases when single apc variable can match multiple nut variables. Other changes: - adjust rexhlp() to follow 0 for false and non-0 for true, like in the rest of the functions - remove valid_cmd() as rexhlp() can be used directly with formats in the table; furthermore the warning (in case of failure) could be confusing when we add nut:apc n:1 case

2.2024 2013-04-12 Vaclav Krpec <VaclavKrpec@Eaton.com>

- docs/man/nutconf.txt: nutconf man page update

2.2025 2013-04-11 Arnaud Quette <arnaud.quette@free.fr>

- drivers/libusb.c: Set USB timeout to 5 seconds Set the low level USB timeout back to the standard 5 seconds. This was set to 4 seconds, for performance reasons, but is now causing issues with some devices (reported by Stefan "stevenbg", GitHub issue #23)

2.2026 2013-04-10 Elio Parisi <E.Parisi@riello-ups.com>

- drivers/riello.c, drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c: Riello drivers: fix memset() arguments, and use stdint.h Reference: http://article.gmane.org/gmane.comp.monitoring.nut.devel/6417

2.2027 2013-04-10 Daniele Pezzini <hyouko@gmail.com>

- data/driver.list.in, docs/man/Makefile.am, docs/man/voltronic_ser.txt, docs/man/voltronic_usb.txt, drivers/Makefile.am, drivers/voltronic.c, drivers/voltronic.h, drivers/voltronic_ser.c, drivers/voltronic_usb.c: New drivers: voltronic_ser/voltronic_usb Reference: http://article.gmane.org/gmane.comp.monitoring.nut.devel/6418

2.2028 2013-04-10 Charles Lepple <clepple+nut@gmail.com>

- docs/man/.gitignore: Ignore voltronic_* generated documentation
- drivers/voltronic_usb.c: voltronic_usb: switch to new is_usb_device_supported() syntax
- tools/nut-usbinfo.pl: Add voltronic_usb driver to USB info extractor tool

2.2029 2013-04-04 Émilien Kia <emilien.kia@gmail.com>

- configure.in, docs/new-clients.txt, scripts/Makefile.am, scripts/README, scripts/java/.gitignore, scripts/java/Makefile.am, scripts/java/README, scripts/java/jNut/.gitignore, scripts/java/jNut/README, scripts/java/jNut/pom.xml, . . . /main/java/org/networkupsto . . . /java/org/networkupstools/jnut/Command.java, . . . /main/java/org/networkupstools/jnut/Device.java, . . . /org/networkupstools/jnut/ . . . /java/org/networkupstools/jnut/Scanner.java, . . . /org/networkupstools/jnut/StringLineSocket.java, . . . /java/org/networkupstools/jnu . . . /java/org/networkupstools/jnut/ClientTest.java, . . . /java/org/networkupstools/jnut/ScannerTest.java, scripts/java/jNutList/READM scripts/java/jNutList/pom.xml, . . . /java/org/networkupstools/jnutlist/AppList.java, scripts/java/jNutWebAPI/README, scripts/java/jNutWebAPI/pom.xml, . . . /jnutwebapi/NutRestProvider.java, . . . /jnutwebapi/RestWSApplication.java, . . . /jnutwebapi/Scanner . . . /jNutWebAPI/src/main/webapp/WEB-INF/web.xml: Remove java related files (jNut) which will be moved to a separated repository. See issues: - https://github.com/networkupstools/nut/issues/2 - https://github.com/networkupstools/nut/issues/22

2.2030 2013-03-29 Vaclav Krpec <VaclavKrpec@Eaton.com>

- include/nutconf.h, tools/nutconf/nutconf.cpp: nutconf: --{add\|set}-device: <key>=<value> support Added support for setting virtually any <key>=<value> pairs for devices by the above options. Now, the synopsis of the options argument lists is: <id> <driver> <port> [<key}=<value>]* (i.e. description is set as desc="blah blah blah")

2.2031 2013-03-26 Alex Lov <alex@alexlov.com>

- drivers/ietf-mib.c: Fix OID for input.bypass.voltage in ietf-mib.c Ooops, forgot fix one
- drivers/ietf-mib.c: Fix OIDs for bypass group in ietf-mib.c Reference http://tools.ietf.org/html/rfc1628#page-12 For bypass voltage, current and power

2.2032 2013-03-18 Vaclav Krpec <VaclavKrpec@Eaton.com>

- tools/nutconf/nutconf.cpp: nutconf: reintroduction of funcs lost in trans. --set-notifycmd, --set-minsupplies & --set-powerdownflag options reintroduced after being lost in recent multi-step transition to git

2.2033 2013-03-13 Vaclav Krpec <VaclavKrpec@Eaton.com>

- Makefile.am: AIX packages: make package does the trick (cherry picked from commit 1d25bd2868339decace5b3028c834746f282467

2.2034 2013-03-13 Arnaud Quette <arnaud.quette@free.fr>

- docs/FAQ.txt: Add a FAQ entry for supported but not working USB UPS

2.2035 2013-03-12 Vaclav Krpec <VaclavKrpec@Eaton.com>

- scripts/Aix/nut-aix.spec.in, scripts/Aix/nut.init: AIX packaging: nut-client uninstal bugfix Packages clean uninstallation (lost/-forgotten commit) (cherry picked from commit f6dd1aec5d2157a3ba3654621fa8e2ac88b060f9)

2.2036 2013-03-10 Charles Lepple <clepple+nut@gmail.com>

- tests/Makefile.am: tests: Fix build without libcppunit
- scripts/upower/95-upower-hid.rules: upower: update generated rules file

2.2037 2013-03-09 Charles Lepple <clepple+nut@gmail.com>

- docs/download.txt: Update VMware ESXi package link (from René Garcia)

2.2038 2013-03-08 Vaclav Krpec <VaclavKrpec@Eaton.com>

- clients/upsclient.c, configure.ac: Solaris/i386: non-blocking connect WA (cherry picked from commit d2b466b9ee5402074ccbf7f2967

2.2039 2013-03-04 Vaclav Krpec <VaclavKrpec@Eaton.com>

- Makefile.am, configure.ac, scripts/Aix/nut-aix.spec.in, scripts/Aix/nut.init: AIX packaging AIX init script and RPM spec. file added (cherry picked from commit 3851525edcb417f96a5d1c12fb786b85095b54d4)

2.2040 2013-02-28 Charles Lepple <clepple+nut@gmail.com>

- Makefile.am, tools/gitlog2changelog.py: Issue #4: Specify starting commit to gitlog2changelog.py

2.2041 2013-02-27 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart_tabs.c: apcsmart: add old APC 600I compatibility entry Though without *T* - until we handle situations when single nut variable is able to correspond to more than one apc var. Testet-by: Markus Pruehs <apc@markus.pruehs.com>

2.2042 2013-02-26 Charles Lepple <clepple+nut@gmail.com>

- tools/gitlog2changelog.py: git-changelog: really fixes #4 (missing entries) The script was discarding any commits which happened to include the word *commit*.
- tools/gitlog2changelog.py: git-changelog: remove re.* calls for simple string matching

2.2043 2013-02-25 Émilien Kia <emilien.kia@gmail.com>

- clients/nutclient.cpp, clients/nutclient.h: Add comparison operator for nut::Device class. Make std::set<nut::Device> work and not dropping devices anymore.

2.2044 2013-02-25 Charles Lepple <clepple+nut@gmail.com>

- Makefile.am, tools/Makefile.am: git-changelog: Fix list of distributed files
- tools/gitlog2changelog.py: Fixes issue #4: ChangeLog now includes single-file commits.
- Makefile.am, tools/gitlog2changelog.py: Issue #4: generate ChangeLog from git logs This seems to generate long ChangeLog entries in the format we had with svn2cl, but some commits appear to be missing.
- tools/gitlog2changelog.py: Import gitlog2changelog.py (2008-12-27) https://github.com/cryos/avogadro/commit/8be9957e5b3b56757 gitlog2changelog.py

2.2045 2013-02-24 Charles Lepple <clepple+nut@gmail.com>

- autogen.sh, configure.ac, scripts/Makefile.am, scripts/devd/.gitignore, scripts/devd/Makefile.am, scripts/devd/README, tools/nut-usbinfo.pl: FreeBSD: generate devd.conf files for USB UPSes This adds a --with-devd-dir=PATH option to ./configure, which defaults to /usr/local/etc/devd (or /etc/devd, whichever is found first). Unlike udev, there does not seem to be a way to re-trigger rules at runtime. This means you will likely need to unplug and replug your UPS after installing the new nut-usb.conf file.

2.2046 2013-02-23 Charles Lepple <clepple+nut@gmail.com>

- drivers/bcmxcp.c: bcmxcp: remove unused variable

2.2047 2013-02-21 Michal Soltys <soltys@ziu.info>

- drivers/apcsmart_tabs.c: apcsmart: minor fixups to compat. tables
- drivers/apcsmart.c: apcsmart: verify/setup fixups legacy_verify()
  - check against commands we always ignore oldapcsetup() - extra comments, minor flow change

2.2048 2013-02-21 Arnaud Quette <arnaud.quette@free.fr>

- .gitignore, scripts/HP-UX/.gitignore: Git ignored files completion

2.2049 2013-02-17 Charles Lepple <clepple+nut@gmail.com>

- tools/git-svn.authors, tools/svn2cl.authors: Remove obsolete authors files.

2.2050 2013-02-16 Charles Lepple <clepple+nut@gmail.com>

- docs/website/news.txt: News: Git conversion
- docs/developers.txt: Update developer documentation for Git repository

2.2051 2013-02-16 Arnaud Quette <arnaud.quette@free.fr>

- .gitignore: Git ignored files completion

2.2052 2013-02-08 Vaclav Krpec <VaclavKrpec@Eaton.com>

- tools/nutconf/nutconf.cpp: nutconf: --scan-serial port list bugfix Piggybacking: added device type check to skip invalid devices returned from libnutscan
- tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h: libnutscan: dev. type strings array size fixed

2.2053 2013-02-07 Vaclav Krpec <VaclavKrpec@Eaton.com>

- tools/nut-scanner/nutscan-device.c: libnutscan: serial device type string undefined

2.2054 2013-02-06 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Solaris/nut.in, scripts/Solaris/postinstall.in: [Solaris] Fix postinstall user/group, and service start * Fix postinstall user/-group detection/creation. * Fix service start depending on the mode, and add poweroff command.

2.2055 2013-02-05 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconf.cpp, common/nutwriter.cpp, docs/man/nutconf.txt, include/nutconf.h, tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_eaton_serial.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c, tools/nutconf/nutconf.cpp: nutconf: another round of bugfixes --{get\|set}-mode options have replaced --mode option --set-mode option actually sets the mode in nut.conf libnutscan provides devices list rewinded (i.e. handled by the head) libnutscan options fixed (so that the 1st is dynamic, too)
- tools/nutconf/nutconf.cpp: nutconf: proper device config dump
- tools/nutconf/nutconf.cpp: nutconf: device with no options bugfix
- docs/man/Makefile.am, tools/nutconf/nutconf.cpp: nutconf: bugfixes \+ HTML manpage

2.2056 2013-02-04 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/Makefile.am, docs/man/nutconf.txt, include/Makefile.am, tests/Makefile.am, tests/nutconf_ut.cpp, tools/nutconf/Makefile.am, tools/nutconf/nutconf.cpp: nutconf: compilation & finishing touches

2.2057 2013-02-04 Emilien Kia <kiae.dev@gmail.com>

- include/proto.h: Move __cplusplus/extern "C" begin block before to fix a problem of ifdef when included in real C+\+ code.

2.2058 2013-02-01 Vaclav Krpec <VaclavKrpec@Eaton.com>

- docs/man/Makefile.am, docs/man/nutconf.txt: nutconf: manpage added
- tests/nutconf_ut.cpp, tools/nutconf/nutconf.cpp: nutconf: added --scan-serial option Piggybacking: IPMI devices scanning updated Fixed nutconf UT

2.2059 2013-02-01 Frederic Bohe <fbohe-guest@alioth.debian.org>

- configure.in, scripts/HP-UX/makedepot.sh, scripts/HP-UX/nut.psf.in, scripts/HP-UX/postinstall.in: [HP-UX] : add postinstal script for installing services files.

2.2060 2013-02-01 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/snmp-ups.txt: Update SNMP driver documentation Mentioning *mib* is not needed anymore since NUT 2.6.2. Also mention *v3* as an allowed value for *snmp_version* (reported by Tim Rice)

2.2061 2013-01-31 Vaclav Krpec <VaclavKrpec@Eaton.com>

- tools/nutconf/nutconf.cpp: nutconf: --scan-snmp option added

2.2062 2013-01-30 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/Makefile.am, configure.in, tools/Makefile.am, tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nutconf/Makefile.am, common/nutconfbin.cpp $\Rightarrow$ tools/nutconf/nutconf.cpp: nutconf: --scan-* options added --scan-snmp is still not implemented, TODO --scan-serial is missing, too All other device protocols should work as long as libnutscan works.

2.2063 2013-01-29 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconfbin.cpp: nutconf: --{set\|add}-user options added NOTE: The options ONLY manipulate upsd.users configuration file. It shall have to be discussed how upsmon.conf shall be kept in sync with the upsmon user settings (TODO).

2.2064 2013-01-29 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c, drivers/apcsmart_tabs.h: apcsmart: implement #311678 (multiple values per variable) This is a bit more general than the original request. All variables that return multiple comma-separated values, are added as **.N.** where 1 $\Leftarrow$ N $\Leftarrow$ APC_PACK_MAX; the variables are stored with temporary name **.0.** in apcsmart_tabs.c, but only at least 1 and at most 4 are added per update run (superfluous - if any - are removed), with **.0.** placeholder being ignored. We assume that the particular variables cannot belong to the capability set at the same time (as reported by user) - otherwise we will need a bit more complex handling, including updates to all setvar functions.

- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: update logging logic / apc_read() - logging This mostly adds few macros that implicitly use or pass caller's name (and in case of hard errors, line number). This allows removal of a few "failed" / "succeeded" lines (which in practice don't really happen), for example there is no need for: upslogx(LOG_ERR, "preread_data: apc_write failed"); as any hard error will be reported by apc_write() internally, providing the place and line number it was called at. Similarly, some upslogx / upsdebugx calls were wrapped in analogous macros to provide caller's name automatically. Debug levels (-D) were adjusted to require only one letter. - apc_read() It's been a bit more scrutinized: - filling up full caller's buffer is considered an error; shouldn't happen unless the ups is somehow damaged or some model is capable of returning more than 512 bytes in one read (current max I witnessed is around 270 bytes during capability read) - timeout reads (whether it's allowed or not) cannot really have any non-0 count, though sanity check could theoretically be useful in non-canonical mode; commented out code was added for reference
- drivers/apcsmart.c: apcsmart: enhance prtchr() So it can handle 4 returns with static pointers.
- drivers/apcsmart.c: apcsmart: allow timeout on read in smartmode() As this function is used to "nudge" ups, we should expect it to timeout. Also avoids extra log spam.

2.2065 2013-01-29 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Solaris/postinstall.in: Use variables to generate Solaris postinstall script.
- scripts/Solaris/postinstall.in: Enhance the Solaris post install script.

2.2066 2013-01-28 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconfbin.cpp: nutconf: --set-shutdowncmd option added
- common/nutconfbin.cpp: nutconf: --set-notifymsg option added
- common/nutconf.cpp, common/nutconfbin.cpp: nutconf: --{set\|add}-notifyflags options added

2.2067 2013-01-25 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconfbin.cpp: nutconf: --{set\|add}-device options added
- common/nutconf.cpp, common/nutconfbin.cpp: nutconf: daily commit Changes: Merged with changes/bugfixes suggested by Arnaud --set-monitor option discards existing entries --add-monitor option added --set-listen and --add-listen options added

2.2068 2013-01-24 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconf.cpp, common/nutconfbin.cpp: nutconf: daily commit Changes: --is-configured option added (checks existence of nut.conf and the MODE) --local and --system options added to set config. directory --mode option added (so far it only stores the required mode, TODO) --set-monitor multi-option added, allows to set (add actually) MONITORs

2.2069 2013-01-23 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconfbin.cpp, common/nutstream.cpp, include/nutstream.hpp: nutconf: --is-configured option introduced The option causes nut.conf::MODE being checked; if not "none" (and if the file exists at all), it pronounces NUT as configured.

2.2070 2013-01-22 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconfbin.cpp: The very 1st nutconf tool stub For now, only cmd. options parsing and usage works.

2.2071 2013-01-22 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/.gitignore, docs/man/Makefile.am, docs/man/index.txt, docs/man/nut-scanner.txt, docs/man/nutscan_get_serial_ports_list.tx
  docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_eaton_serial.txt, docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan
  docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt, include/nut_platform.h,
  tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-device.h,
  tools/nut-scanner/nutscan-display.c, tools/nut-scanner/nutscan-serial.c, tools/nut-scanner/nutscan-serial.h, tools/nut-scanner/scan_eato
  tools/nut-scanner/scan_nut.c: Add nut-scanner support for Eaton serial units nut-scanner and libnutscan now provides respectively an option and functions to detect Eaton serial devices. The following protocols are supported: SHUT, XCP and Q1 (patch from Frederic Bohe, with parts from Arnaud Quette, both for Eaton)
- docs/man/Makefile.am: Remove duplicate entries for Eaton serial scan
- include/Makefile.am, tools/nut-scanner/Makefile.am: List missing header files to be distributed nutscan-serial.h and nut_platform.h were missing from the distribution
- scripts/Solaris/.gitignore: Subversion ignored files completion Mark Solaris generated packaging files as Subversion ignored (no functional changes)
- docs/man/.gitignore, docs/man/Makefile.am, docs/man/index.txt, docs/man/nut-scanner.txt, docs/man/nutscan_get_serial_ports_list.tx
  docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_eaton_serial.txt, docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan
  docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt, include/nut_platform.h,
  tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-device.h,
  tools/nut-scanner/nutscan-display.c, tools/nut-scanner/nutscan-serial.c, tools/nut-scanner/nutscan-serial.h, tools/nut-scanner/scan_eato
  tools/nut-scanner/scan_nut.c: Add nut-scanner support for Eaton serial units nut-scanner and libnutscan now provides respectively an option and functions to detect Eaton serial devices. The following protocols are supported: SHUT, XCP and Q1 (patch from Frederic Bohe, with parts from Arnaud Quette, both for Eaton)
- configure.in: Fix for pthread on HP-UX pthread is compiled on a stub when -lpthread is not explicitly added. This commit is a duplicate of [SVN:3801], from Frederic Bohe (for Eaton)
- drivers/bcmxcp_ser.c: Change baud-rates ordering for auto-detection
- docs/new-drivers.txt, drivers/serial.c, drivers/serial.h: Add non-fatal versions of ser_open / ser_set_speed

2.2072 2013-01-21 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutwriter.cpp: C\+\+11 code removed due platform compatibility

2.2073 2013-01-21 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Solaris/nut.in, scripts/Solaris/postinstall.in: Allow start/stop of NUT from Solaris packages

2.2074 2013-01-13 Emilien Kia <kiae.dev@gmail.com>

- clients/cgilib.h, clients/status.h, clients/upsimagearg.h, clients/upslog.h, clients/upsmon.h, clients/upssched.h, clients/upsstats.h, include/common.h, include/extstate.h, include/proto.h, include/state.h, include/upsconf.h, server/conf.h, server/desc.h, server/netcmds server/netget.h, server/netinstcmd.h, server/netlist.h, server/netmisc.h, server/netset.h, server/netssl.h, server/netuser.h, server/sstate.h, server/stype.h, server/upsd.h, server/upstype.h, server/user-data.h, server/user.h, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nutsca device.h, tools/nut-scanner/nutscan-init.h, tools/nut-scanner/nutscan-ip.h: Protect header files for C+\+ inclusion.
- clients/cgilib.h, clients/status.h, clients/upsimagearg.h, clients/upslog.h, clients/upsmon.h, clients/upssched.h, clients/upsstats.h, include/common.h, include/extstate.h, include/proto.h, include/state.h, include/upsconf.h, server/conf.h, server/desc.h, server/netcmds server/netget.h, server/netinstcmd.h, server/netlist.h, server/netmisc.h, server/netset.h, server/netssl.h, server/netuser.h, server/sstate.h, server/stype.h, server/upsd.h, server/upstype.h, server/user-data.h, server/user.h, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nutsca device.h, tools/nut-scanner/nutscan-init.h, tools/nut-scanner/nutscan-ip.h: Protect header files for C+\+ inclusion.

2.2075 2013-01-09 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutipc.cpp, include/nutipc.hpp, tests/nutipc_ut.cpp: nutipc: signal handling UT added

2.2076 2013-01-08 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconf.cpp, common/nutwriter.cpp, include/nutconf.h, tests/nutconf_ut.cpp: nutconf: fix of misplaced value quoting Value quoting/escaping is now done generically in nutwriter.
- common/nutconf.cpp, common/nutconfbin.cpp, common/nutipc.cpp, common/nutstream.cpp, common/nutwriter.cpp, include/-Makefile.am, include/nutconf.h, include/nutipc.hpp, include/{nutstream.h ⇒ nutstream.hpp}, include/{nutwriter.h ⇒ nutwriter.hpp}, tests/nutconf_ut.cpp, tests/nutipc_ut.cpp, tests/nutstream_ut.cpp: nutipc: signal sending UTs nut::Signal::send via PIDfile and nut::NutSignal::send via process name added, too. Minor backwards-compatible changes in nutstream (file removal methods).

2.2077 2013-01-07 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutipc.cpp, include/nutipc.hpp, tests/nutipc_ut.cpp: nutipc: ext. command execution improvements The command line segmentation is finally implemented. nut::Process::execute static functions added for simplicity of usage.
- common/nutipc.cpp, include/nutipc.hpp, tests/Makefile.am, tests/nutipc_ut.cpp: nutipc: linking cleanup & exec UT

2.2078 2012-12-20 Émilien Kia <emilien.kia@gmail.com>

- common/Makefile.am, common/nutconfbin.cpp: Add a little sample to use libconf. Special dedicace to Fred.

2.2079 2012-12-19 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/HP-UX/makedepot.sh, scripts/HP-UX/nut.psf.in: Use installed binaries to create package

2.2080 2012-12-19 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: HCL: Add support for Lyonn CTB-1200 Add Lyonn CTB-1200 (USB ID 0x0665:0x5161) to the list of blazer_usb supported models (reported by Martin Sarsale)
- docs/stable-hcl.txt: Clarify expected report for shutdown testing State explicitly that, for now, a statement that the user has actually tested the shutdown procedure successfully is enough (report from Martin Sarsale)

2.2081 2012-12-18 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c: apcsmart: add update_info() No need for almost identical update_info_normal() and update_info_all()
- drivers/apcsmart.c: apcsmart: two fixups In poll_data(): we are not supposed to set variable after its (formally impossible) removal In upsdrv_shutdown(): wrong comparison

2.2082 2012-12-18 Arnaud Quette <arnaud.quette@free.fr>

- drivers/delta_ups-mib.c: Fix a typo error and current multiplier factor
- data/driver.list.in, drivers/Makefile.am, drivers/delta_ups-mib.c, drivers/delta_ups-mib.h, drivers/snmp-ups.c: Support for DeltaUPS MIB and Socomec Netys RT 1/1 Add preliminary SNMP support for a new MIB: DeltaUPS MIB, with sysOID ".1.3.6.1.4.1.2254.2.4". The first known supported devices are Socomec Netys RT 1/1, equiped with Netvision SNMP card

2.2083 2012-12-14 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/Makefile.am, common/nutipc.cpp, include/Makefile.am, include/nutipc.hpp: NUT IPC module introduction A non-complete implementation of NUT IPC support module. Certain functions are just outlined, for now. Deals with signal handling and execution of external commands. I commit this partial implementation because I'll be on holiday for certain amount of time and it's IMO better to have the code comitted.

2.2084 2012-12-14 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/powerp-txt.c, drivers/powerpanel.c: Add support for CyberPower OL3000RMXL2U Add CyberPower OL3000RMXL2U serial support to the powerpanel driver, text protocol version (Alioth patch #313910, from Timothy Pearson)

2.2085 2012-12-13 Arnaud Quette <arnaud.quette@free.fr>

- docs/Makefile.am, docs/new-drivers.txt, docs/snmp-subdrivers.txt, scripts/subdriver/gen-snmp-subdriver.sh: Helper script to create SNMP subdrivers stubs Created a new shell script (scripts/subdriver/gen-snmp-subdriver.sh) to automatically create a "stub" subdriver. This will make it a lot easier and quicker to create subdrivers for snmp-ups. A new documentation chapter has also been added ("How to make a new subdriver to support another SNMP device")
- drivers/tripplite-hid.c: Add support for newer TrippLite Smart1500LCD Add newer TrippLite Smart1500LCD (USB ID 0x09ae:0x3016) to the list of usbhid-ups supported models (reported by Steve Salier)

2.2086 2012-12-12 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/mge-hid.c: Fix crash with debug level greater or equal to 2

2.2087 2012-12-11 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconf.cpp, include/nutconf.h, tests/Makefile.am, tests/nutconf_ut.cpp: Basic unit tests for libnutconf UTs with focus on basic configuration settings and serialisation were added for nut.conf, upsmon.conf, upsd.conf ups.conf and upsd.users. Note that the tests are not exhaustive; they only parse configuration files samples, change a few randomly selected parameters, serialise the result back and check it.

2.2088 2012-12-10 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c: apcsmart: add prtchr() helper Add prtchr() helper and simplify reporting when we check whether some APC cmd/var character is or isn't printable.
- drivers/apcsmart_tabs.c: apcsmart: apc_cmdtab[] fixup Earlier commit that adjusted regex checks, also changed cmd fields for all instant commands handled by custom functions. We cannot do that, as they are not detected as supported this way.

2.2089 2012-12-09 Arnaud Quette <arnaud.quette@free.fr>

- scripts/Windows/Makefile.am: Forgotten build and distribution rules
- include/common.h, include/wincompat.h: Fix MingGW-w64 compilation
- scripts/Windows/README, scripts/Windows/build-mingw-nut.sh: Automated Windows cross compilation Preliminary support for automated Windows cross compilation, using MingGW-w64. A script is provided, with 32 and 64 bits compilation options, along with a documentation file

2.2090 2012-12-08 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c: apcsmart: serial related stuff a bit more strict Also: - apc_flush() now loops with >0 condition (otherwise errored apc_read() might cause inf loop) - ser_comm_good/fail() were kind of missing in write wrappers
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: sdlist/sdtype/advorder changes - verify *advorder* with regex - remove unused defines - as the user is directed towards man page either way (and without it numbers are kind of meaningless), drop SDMAX
- drivers/apcsmart.c: apcsmart: setup port after variable sanitization in upsdrv_initups()
- drivers/apcsmart.c: apcsmart: cleanup dstate ok/stale calls
- drivers/apcsmart.c: apcsmart: getbaseinfo() fixup In extremely unlikely case of failing write, report it up and act accordingly.
- drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c, drivers/apcsmart_tabs.h: apcsmart: adjust regex logic A bit simpler / tighter now.
- drivers/apcsmart.c: apcsmart: add var_string_setup() In theory deprecate_vars() should also consider APC_STRING variables. In practice - we don't have any variables that are both APC_MULTI and APC_STRING - but it's more correct this way, so let's do it.
- drivers/apcsmart.c: apcsmart: cosmetics - code shuffling, comments, flow - rename query_ups() → legacy_verify() - add few lines of help directing to man page
- drivers/apcsmart.c: apcsmart: simplify query_ups() / proto_verification() Both functions rely now on common variable verificaion function.
- drivers/apcsmart.c: apcsmart: add var_verify() The function will be used in subsequent commit for common verification.
- drivers/apcsmart.c: apcsmart: shuffle two functions query_ups() and oldapcsetup()
- drivers/apcsmart.c: apcsmart: simplify query_ups() This commit changes query_ups() function and makes it rely on the same deprecate_vars() logic that protocol_verify() requires. We can shorten the code a bit now, and it allows us to do more simplifications in subsequent commits.
- drivers/apcsmart.c: apcsmart: add functions informing about [un]supported cmds/vars In unified fashion, instead of each protocol-verification related function doing it on its own.
- drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c, drivers/apcsmart_tabs.h: apcsmart: minor tidying up comments, trivial changes, code shuffling ...
- drivers/apcsmart.c: apcsmart: remove unused field *def* from cchar In apc_ser_diff() reporting differences between tcgetattr/tcsetattr, *def* field was unused (along with related defines).

2.2091 2012-12-08 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-utalk.c, drivers/mge-utalk.h: Change Martin Loyer's mail address As per Martin's request.
- drivers/mge-utalk.c: Improve mge-utalk general behavior Make two adjustments to improve the general behavior: first, send the double "Z" prior to "Si" command. Second, inter-commands delay has been increased to comply with the specification

2.2092 2012-12-07 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconf.cpp, common/nutstream.cpp, common/nutwriter.cpp, include/nutconf.h, include/nutstream.h, include/nutwriter.h: (De)serialisation methods added to config. classes All existing NUT configuration classes now implement Serialisable interface (parseFrom and writeTo methods). Note that the parseFrom implementations are very naive (they simply read whole source stream to memory and call existing parseFromString method). That's enough for now, however, in future the parsres should directly use NutStream interface.

2.2093 2012-12-06 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconf.cpp, include/nutconf.h: Support for upsd.users config. file added
- common/nutstream.cpp, common/nutwriter.cpp, include/nutstream.h, include/nutwriter.h: Bugfix: out. std::stringstream constr. arg ignored
- common/nutwriter.cpp, include/nutwriter.h: Special serialiser for upsd.users config file The special serialiser is needed because of the [upsmon]::upsmon directive (which doesn't use the standard = key/ value separator). Also, serialisation of section entry value list was fixed (so that multiple entries are produced rather than a list of values).

2.2094 2012-12-06 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scanner.c: Fix nut-scanner compilation without pthread

2.2095 2012-12-05 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutconf.cpp, common/nutwriter.cpp, include/nutconf.h: UpsConfiguration class added to libnutconf Getters/setters for all UPS config. attributes added The getters/setters need further checking for type correctness Generic support for the above implemented in GenericConfiguration class

2.2096 2012-12-02 Charles Lepple <clepple+nut@gmail.com>

- drivers/riello_usb.c: riello_usb.c: eliminate uninitialized variable

2.2097 2012-11-30 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutwriter.cpp, include/nutconf.h: NutWriter: ups.conf upsmon.conf upsd.conf support

2.2098 2012-11-29 Arnaud Quette <arnaud.quette@free.fr>

- conf/.gitignore: Subversion ignored files completion Mark upsmon.conf.sample as Subversion ignored, since it is now generated from a .in template file (no functional changes)
- conf/Makefile.am, conf/{upsmon.conf.sample ⇒ upsmon.conf.sample.in}, configure.in: Adapt upsmon.conf sample to use configured values The sample upsmon.conf provided now adapts RUN_AS_USER value, and NOTIFYCMD / POWERDOWNFLAG base path to the user configured values

2.2099 2012-11-28 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/Makefile.am, common/nutstream.cpp, common/nutwriter.cpp, include/Makefile.am, include/nutconf.h, include/nutstream.h, include/nutwriter.h: Partial implementation on NutWriter subtree General serialisers implemented Several TBDs and TODOs left for review tbc...

2.2100 2012-11-28 Charles Lepple <clepple+nut@gmail.com>

- conf/upsmon.conf.sample, docs/man/upsmon.conf.txt: Update references to pager.txt

2.2101 2012-11-28 Arnaud Quette <arnaud.quette@free.fr>

- drivers/riello.c, drivers/riello_ser.c, drivers/riello_usb.c: Minor improvements to Riello drivers Fix ups.power.nominal name in Riello drivers, and its value for GPSER protocol(riello_ser). device.mfr was also changed in both drivers, and revisions were bumped to 0.02 (patch from Elio Parisi, Riello)
- data/driver.list.in, drivers/Makefile.am, drivers/openups-hid.c, drivers/openups-hid.h, drivers/usbhid-ups.c, scripts/upower/95-upower-hid.rules: Official support for Minibox openUPS Intelligent UPS Add a new usbhid-ups subdriver to handle Minibox openUPS Intelligent UPS (USB ID 0x04d8:0xd004) (patch from Nicu Pavel, Mini-Box.Com)

2.2102 2012-11-27 Frederic Bohe <fbohe-guest@alioth.debian.org>

- data/driver.list.in, docs/man/genericups.txt: Add information about Eaton Management Card Contact

2.2103 2012-11-25 Arnaud Quette <arnaud.quette@free.fr>

- drivers/riello.c, drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c: Minor improvements to Riello drivers Fix functions and variables names to use English language. Also fix warnings reported by Mac OS X Buildbot and Charles Lepple (patch from Elio Parisi, Riello)

2.2104 2012-11-22 Vaclav Krpec <VaclavKrpec@Eaton.com>

- tests/nutstream_ut.cpp: Forgotten UT source from prev. commit
- common/Makefile.am, common/nutstream.cpp, include/Makefile.am, include/nutstream.h, tests/Makefile.am: Unit tests for nut::NutStream subtree Basic unit tests plus a few minor changes and updates to the code

2.2105 2012-11-21 Arnaud Quette <arnaud.quette@free.fr>

- docs/acknowledgements.txt: Complete Acknowledgements with a Riello entry Riello deserves a dedicated entry in the Supporting UPS manufacturers, for having provided protocols information and drivers implementations
- docs/man/.gitignore: Subversion ignored files completion Mark riello_ser and riello_usb HTML manpages as Subversion ignored (no functional changes)
- data/driver.list.in, docs/man/.gitignore, docs/man/Makefile.am, docs/man/riello_ser.txt, docs/man/riello_usb.txt, drivers/.gitignore, drivers/Makefile.am, drivers/riello.c, drivers/riello.h, drivers/riello_ser.c, drivers/riello_usb.c, tools/nut-usbinfo.pl: Official support for Riello serial and USB devices Add two new drivers, riello_ser and riello_usb, to support the whole ranges of Riello devices: IDG, IPG, WPG, NPW, NDG, DVT, DVR, DVD, VST, VSD, SEP, SDH, SDL, SPW, SPT, MCT, MST, MCM, MCT, MHT, MPT and MPM. This completes the official Riello protocols publication, that happened in May 2012 (developed by Elio Parisi, from Riello)

2.2106 2012-11-20 Arnaud Quette <arnaud.quette@free.fr>

- clients/upsclient.h, server/nut_ctype.h: Fix NSS include directives The current NSS include directives (nss/nss.h) were incorrect. These were failing on Redhat systems, and working on some others because of the default include path (reported by Michal Hlavinka, from Redhat)

2.2107 2012-11-19 Emilien Kia <kiae.dev@gmail.com>

- tools/nut-scanner/nutscan-device.c: Fix a memory leak in scanner.

2.2108 2012-11-19 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: HCL: Add support for Aviem Power RT 1000-3000VA Add Aviem Systems - Aviem Power RT 1000-3000VA to the list of blazer_ser supported models (reported by Michael Dobrovitsky)

2.2109 2012-11-16 Vaclav Krpec <VaclavKrpec@Eaton.com>

- common/nutstream.cpp, include/nutstream.h: Initial implementation of nut::NutStream sub-tree nut::NutMemory (memory-based stream) nut::NutFile (file-stream) nut::NutSocket with nut::NutSocket::Address (UNIX domain, IPv4, IPv6)

2.2110 2012-11-13 Emilien Kia <kiae.dev@gmail.com>

- clients/Makefile.am, clients/nutclient.cpp, clients/nutclient.h, configure.in, docs/man/Makefile.am, docs/man/index.txt, docs/-man/libnutclient.txt, docs/man/libnutclient_commands.txt, docs/man/libnutclient_devices.txt, docs/man/libnutclient_general.txt, docs/man/libnutclient_misc.txt, docs/man/libnutclient_tcp.txt, docs/man/libnutclient_variables.txt, docs/new-clients.txt, lib/-Makefile.am, lib/README, lib/libnutclient.pc.in: Merge libnutclient (libcpp) branch Pull Request #2: "High level C and C+\+ libnutclient" from https://github.com/clepple/nut/pull/2 . Hand-merged into SVN trunk from commit: 701cc571f4f8578e9c82b13c1e9

2.2111 2012-11-13 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/.gitignore: Complete the list of Subversion ignored files Commit r3778 was missing generated HTML files (no functional changes)
- docs/man/Makefile.am: Fix installation of libnutclient manual pages Commit r3777 fixed the test target, but libnutclient manual pages were not actually installed
- docs/man/.gitignore, lib/.gitignore: Complete the list of Subversion ignored files The merge of NSS and libnutclient branches have left some new generated files (no functional changes)
- docs/man/libnutclient_commands.txt, docs/man/libnutclient_devices.txt, docs/man/libnutclient_general.txt, docs/man/libnut-client_misc.txt, docs/man/libnutclient_tcp.txt, docs/man/libnutclient_variables.txt: Fix Buildbot failures on previous commit (man pages) The merge of the libnutclient branch caused a failure of the *distcheck-light* test target. Manual pages documentation in this branch uses a mechanism to generate multiple manpages from one source file. This was however conflicting with a Makefile rule, that requires the generated file to have the same name as the source file. Applies the same principle by adding the content of the Header section to the NAME commands list. Also fix a typo error in the Header section of libnutclient_devices

2.2112 2012-11-08 Frederic Bohe <fbohe-guest@alioth.debian.org>

- docs/man/usbhid-ups.txt, drivers/usbhid-ups.c: Add a command line to usbhid-ups to activate the max_report tweak.
- drivers/apc-hid.c, drivers/libhid.c: Fix tweak for APC Back-UPS since it seems to break Back-UPS 700 connectivity (reported by Denis Serov). Adding some more comments on UPS which need and which do not need the tweak. Refactored the detection code.

2.2113 2012-11-07 Arnaud Quette <arnaud.quette@free.fr>

- scripts/subdriver/gen-usbhid-subdriver.sh: Fix USB HID subdriver generation tool This tool has not been updated since timestamps were added to driver debug traces. It was thus producing erroneous results (reported by Nicu Pavel)

2.2114 2012-11-02 Charles Lepple <clepple+nut@gmail.com>

- README, scripts/upower/95-upower-hid.rules: apcupsd-ups: link to man page from README Patch by Arnaud: https://alioth.debian tracker/index.php?func=detail&aid=313846&group_id=30602&atid=411544

2.2115 2012-11-01 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: Fix a crash on outlets management snmp-ups was crashing when the number of outlets was equal to zero

2.2116 2012-10-31 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/.gitignore, docs/man/blazer.txt: Fix blazer manual pages generation to generate blazer, blazer_ser and blazer_usb manual pages. The same manual page is now distributed and available under these 3 names (warning to packagers)
- docs/man/Makefile.am, docs/man/asciidoc.conf: Fix manpage refmiscinfo attributes and multiple NAME refmiscinfo attributes were previously specified through asciidoc.conf. This approach prevented from specifying and generating multiple manual pages from a single source. Moreover, manversion (pointing NUT version) was mistyped, and thus omitted. Makefile rules now directly define refmiscinfo through attributes, and allow to solve the long standing blazer / blazer_ser / blazer_usb related issue, and the upcoming libnutclient one

2.2117 2012-10-30 Charles Lepple <clepple+nut@gmail.com>

- docs/man/apcupsd-ups.txt: apcupsd-ups: Update man page with variables and units

2.2118 2012-10-24 Émilien Kia <emilien.kia@gmail.com>

- common/nutconf.cpp, include/nutconf.h, tests/nutconf.cpp: Add parsing options and allow *:* to be interpreted as normal character. Add parsing option to NutParser. Add a first option OPTION_IGNORE_COLON to parse *:* as a normal character and not as token. Use it to allow parsing "::1" IPv6-like as string without having to quote them (upsd.conf).
- tests/nutconf.cpp: Add test for UpsdConfiguration parsing.
- include/nutconf.h: Add equality test operators for Settable<T> and UpsdConfiguration::Listen.

2.2119 2012-10-23 Émilien Kia <emilien.kia@gmail.com>

- common/nutconf.cpp, include/nutconf.h: Implement upsd.conf UpsdConfigParser. Test pending. A bug is pending: IPv6 format must be in quoted string because of *:*.
- common/nutconf.cpp, include/nutconf.h, tests/nutconf.cpp: Implement nut.conf NutConfiguration parser.
- common/nutconf.cpp, include/nutconf.h, tests/nutconf.cpp: Implement UpsmonConfigParser and related.
- include/nutconf.h: Create and use a Settable helper which indicate if a parameter is set or not.
- include/nutconf.h: Add notify messages array in UpsmonConfiguration (oups !).

2.2120 2012-10-22 Émilien Kia <emilien.kia@gmail.com>

- common/nutconf.cpp, include/nutconf.h: Add stubs for upsmon.conf parser and config structure.
- common/nutconf.cpp, include/nutconf.h, tests/nutconf.cpp: Add unit test for GenericConfiguration parsing. Add UT for GenericConfiguration (validate GenericConfigParser and all the stack). Fix some errors found with UT.

2.2121 2012-10-19 Émilien Kia <emilien.kia@gmail.com>

- common/nutconf.cpp, include/nutconf.h: Add GenericConfiguration function to parse from string (use GenericConfigParser).
- common/nutconf.cpp, include/nutconf.h: Virtualize GenericConfiguration with BaseConfiguration to really allow specialized versions of config class.
- common/nutconf.cpp, include/nutconf.h: Implement GenericConfigParser and related.
- common/nutconf.cpp, include/nutconf.h: Implement abstract class DefaultConfigParser
- common/nutconf.cpp, include/nutconf.h: Define a typedef type to make function easier to understand.

2.2122 2012-10-19 Arnaud Quette <arnaud.quette@free.fr>

- drivers/cps-hid.c, drivers/idowell-hid.c, scripts/subdriver/gen-usbhid-subdriver.sh: Replace missing occurrences in previous commit
- docs/hid-subdrivers.txt, drivers/libhid.c, scripts/Makefile.am, scripts/subdriver/{path-to-subdriver.sh ⇒ gen-usbhid-subdriver.sh}: Rename usbhid subdriver generation script This script was previously named path-to-subdriver.sh, which was not enough meaningful. The renaming to gen-usbhid-subdriver.sh also makes sense with a potential gen-snmp-subdriver.sh
- data/driver.list.in: HCL: Add support for Apollo 850VA Add Apollo 850VA (USB ID 0x0665:0x5161) to the list of blazer_usb supported models (reported by Mike Raath)

2.2123 2012-10-15 Émilien Kia <emilien.kia@gmail.com>

- common/nutconf.cpp, include/nutconf.h: Add stubs for DefaultConfigParser Add stubs for the default configuration file parser. Basic implementation will follow.
- common/nutconf.cpp, include/nutconf.h, tests/nutconf.cpp: Implement abstract configuration parser. Rename NutConfParser in NutParser. Implement the abstract class NutConfParser based on NutParser for configuration file parsing. Remove old C sample code.

2.2124 2012-10-15 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- data/driver.list.in: HCL: add info about new APC models Info about new SMT, SMX and SURTD models which require additional card for "legacy" smart protocol.

2.2125 2012-10-15 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c: Fix invalid memory allocation (fix a crash at exit time in upsmon)

2.2126 2012-10-15 Arnaud Quette <arnaud.quette@free.fr>

- configure.in, scripts/systemd/nut-driver.service.in: Fix driver path in systemd driver unit The driver path, in nut-driver.service, was not expanded correctly (reported by Marc Rechté)
- configure.in: Only fail if SSL was explicitly requested Configuration should not abort if neither OpenSSL nor Mozilla NSS has been found, and if SSL was not explicitly requested by the user. This fixes the Buildbot compilation failure on Aix (build #206)

2.2127 2012-10-12 Charles Lepple <clepple+nut@gmail.com>

- tools/git-svn.authors, tools/svn2cl.authors: Update Emilien Kia's email address

2.2128 2012-10-11 Arnaud Quette <arnaud.quette@free.fr>

- docs/Makefile.am: Fix Solaris compilation failure

2.2129 2012-10-10 Émilien Kia <emilien.kia@gmail.com>

- common/Makefile.am, common/nutconf.cpp, include/nutconf.h, tests/Makefile.am, tests/nutconf.cpp: Initial conf library. Just parse tokens.

2.2130 2012-10-10 Arnaud Quette <arnaud.quette@free.fr>

- README: Spell check fix (test)
- .gitignore, configure.in, docs/.gitignore, docs/Makefile.am, docs/nut-qa.txt, docs/nut.dict: Spell checking framework implementation Implement a framework to spell check documentation source files, using Aspell. This includes an interactive build target (make spellcheck-interactive), and an automated one (make spellcheck), mainly for QA / Buildbot purpose. Note that a base NUT dictionnary is also available (docs/nut.dict), providing a glossary of terms related to power devices and management
- drivers/tripplite_usb.c: Remove POD ("Plain Old Documentation") With the approval of the author (Charles Lepple), remove POD ("Plain Old Documentation"). This embedded documentation was redundant, and is probably out of date, with respect to the AsciiDoc version
- drivers/powercom.c, drivers/powercom.h, drivers/upscode2.c: Remove unnecessary RCS $Id lines

2.2131 2012-10-05 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/nut-scan.h: Fix compilation error Define IPMI_PRIVILEGE_LEVEL_ADMIN value, in case FreeIPMI is not available

2.2132 2012-10-04 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nut-scanner.txt, drivers/nut-ipmipsu.c, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_ Support power supplies scan over the network nut-scanner can now scan for power supplies with IPMI over LAN. This is currently limited to IPMI 1.5 only
- docs/man/nut-scanner.txt, drivers/nut-ipmipsu.c, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_ Support power supplies scan over the network nut-scanner can now scan for power supplies with IPMI over LAN. This is currently limited to IPMI 1.5 only

2.2133 2012-10-03 Arnaud Quette <arnaud.quette@free.fr>

- docs/acknowledgements.txt: Update acknowledgements

2.2134 2012-09-28 Charles Lepple <clepple+nut@gmail.com>

- drivers/apcupsd-ups.c, drivers/apcupsd-ups.h: apcupsd-ups: Additional variables
- drivers/apcupsd-ups.c, drivers/apcupsd-ups.h: apcupsd-ups: Remove multiplier from ups.load
- drivers/.gitignore: Cleanup of svn:ignore list in drivers/ (no code change)

2.2135 2012-09-27 Charles Lepple <clepple+nut@gmail.com>

- docs/man/apcupsd-ups.txt, drivers/apcupsd-ups.c: apcupsd-ups: miscellaneous cleanup
- tools/git-svn.authors, tools/svn2cl.authors: Welcome, Václav! (SVN username mappings)

2.2136 2012-09-27 Andreas Steinmetz

- docs/man/Makefile.am, docs/man/apcupsd-ups.txt, drivers/Makefile.am, drivers/apcupsd-ups.c, drivers/apcupsd-ups.h: apcupsd client driver https://alioth.debian.org/tracker/?func=detail&atid=411544&aid=313846&group_id=30602

2.2137 2012-09-21 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-qa.txt: Update the link to the Ubuntu QRT script

2.2138 2012-09-19 Arnaud Quette <arnaud.quette@free.fr>

- drivers/nut-libfreeipmi.c, m4/nut_check_libfreeipmi.m4, tools/nut-scanner/scan_ipmi.c: Support for FreeIPMI 1.1.x and 1.2.x (#2) Prepare for supporting API changes in FreeIPMI 1.1.x and 1.2.x. This 2nd patch, which completes [SVN:3675], addresses FRU API changes, and removes code redundancy. This code has been tested with FreeIPMI 0.8.12 and the latest [FreeIPMI SVN] trunk r9505 (reported as 1.2.0.beta2 by pkgconfig)
- drivers/nut-libfreeipmi.c, m4/nut_check_libfreeipmi.m4, tools/nut-scanner/scan_ipmi.c: Support for FreeIPMI 1.1.x and 1.2.x (#2) Prepare for supporting API changes in FreeIPMI 1.1.x and 1.2.x. This 2nd patch, which completes [SVN:3675], addresses FRU API changes, and removes code redundancy. This code has been tested with FreeIPMI 0.8.12 and the latest [FreeIPMI SVN] trunk r9505 (reported as 1.2.0.beta2 by pkgconfig)
- docs/download.txt, docs/website/news.txt: Update Windows package publications for 2.6.5-3

2.2139 2012-09-18 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/wininit.c: update error logs
- scripts/Windows/Installer/NUT-Installer.xml: Typo in installer dialog box
- common/wincompat.c: Fix communication with named pipe

2.2140 2012-09-17 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upssched.c: Fix upssched regression due to CVE-2012-2944
- common/common.c, common/wincompat.c: Fix Event Viewer regression Also, more consistent named pipe management

2.2141 2012-09-17 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt, docs/website/news.txt: Update Windows package publications for 2.6.5-2

2.2142 2012-09-12 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bcmxcp_usb.c: Fix data reception loop The new data reception algorithm was trying to get more data than it should (patch from Rich Wrenn)

2.2143 2012-09-10 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/apc-hid.c, drivers/apc-hid.h, drivers/libhid.c: Add a tweak for APC Back UPS ES APC Back UPS ES have a buggy firmware which overflows on ReportID 0x0c, i.e. UPS.PowerSummary.RemainingCapacity. This results in battery.charge not being exposed and endless reconnections on systems with libusb reporting EOVERFLOW. And it results on a failure to init the driver for systems with libusb not reporting EOVERFLOW but EIO (i.e. on Windows).
- tools/nut-scanner/nut-scanner.c: [nut-scanner] Fix a crash when no start IP is provided.
- drivers/apc-hid.c, drivers/bcmxcp_usb.c, drivers/belkin-hid.c, drivers/blazer_usb.c, drivers/cps-hid.c, drivers/idowell-hid.c, drivers/lieb hid.c, drivers/mge-hid.c, drivers/powercom-hid.c, drivers/richcomm_usb.c, drivers/tripplite-hid.c, drivers/tripplite_usb.c, drivers/usb-common.c, drivers/usb-common.h: Extend USB device support check (from Arnaud Quette) Use USBDevice_t structure in is_usb_device_supported(), instead of direct VendorID and ProductID. This allows to pass it to the specific processing handler for broader check

2.2144 2012-09-07 Leo Arias <elopio-guest@alioth.debian.org>

- conf/nut.conf.sample: Update nut.conf.sample (grammar and documentation) https://alioth.debian.org/tracker/?func=detail&atid=411

2.2145 2012-08-14 Arnaud Quette <arnaud.quette@free.fr>

- NEWS, UPGRADING, configure.in, data/driver.list.in, docs/Makefile.am, docs/configure.txt, docs/documentation.txt, docs/download.txt, docs/images/eaton-logo.png, docs/images/hostedby.png, docs/images/simple.png, docs/man/.gitignore, docs/man/Makefile.am, docs/man/index.txt, docs/man/macosx-ups.txt, docs/man/mge-shut.txt, docs/man/nutscan.txt, docs/man/nutscan_sc docs/man/powercom.txt, docs/man/skel.txt, docs/nut-names.txt, docs/website/.gitignore, docs/website/Makefile.am, docs/website/css/ layout.css, docs/website/news.txt, docs/website/old-news.txt, docs/website/projects.txt, docs/website/web-layout.conf, drivers/.gitignc drivers/Makefile.am, drivers/macosx-ups.c, drivers/mge-hid.c, drivers/powercom-hid.c, drivers/skel.c, drivers/usbhid-ups.c, drivers/usbhid-ups.h, m4/nut_check_libltdl.m4: Merge from trunk [SVN:3679] to [SVN:3718] to ssl-nss-port

2.2146 2012-08-09 Frederic Bohe <fbohe-guest@alioth.debian.org>

- INSTALL.nut, docs/images/eaton-logo.png, scripts/Windows/Installer/NUT-Installer.xml: Merge from trunk [SVN:3692] to [SVN:3713] (upgrade to 2.6.5)

2.2147 2012-08-09 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/.gitignore, docs/website/Makefile.am, docs/website/news.txt, docs/website/old-news.txt: Integrate archived news
- docs/nut-names.txt, drivers/mge-hid.c: Add shutdown ability switch to Eaton units Eaton HID units (using usbhid-ups or [new,old]mge-shut) were missing a data mapping to allow the change of the shutdown ability switch. The result was that the UPS was not powered off, even if all the protocol commands were sent (reported by Daniel O'Connor)
- docs/download.txt, docs/website/news.txt: Update Windows package publications for 2.6.5-1
- docs/man/.gitignore, docs/man/index.txt: Added macosx-ups manual page to the index Also add generated groff and HTML contents to the list of Subversion ignored files

2.2148 2012-08-08 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsmon.c, common/common.c, common/wincompat.c, drivers/dstate.c, drivers/main.c, drivers/upsdrvctl.c, include/common.h, scripts/Windows/Installer/NUT-Installer.xml, scripts/Windows/wininit.c, server/upsd.c: Get rid of console event and PID management Processes can now be stopped via named pipe. Processes can now check previous instances via named mutex.

2.2149 2012-08-08 Arnaud Quette <arnaud.quette@free.fr>

- NEWS, UPGRADING, configure.in, docs/website/news.txt: Final update for 2.6.5 release
- drivers/.gitignore: Subversion ignored files completion Mark oldmge-shut binary as Subversion ignored (no functional changes)
- docs/configure.txt, m4/nut_check_libltdl.m4: Complete libltdl configuration options Add configure options to add specific cflags (--with-libltdl-includes) and libs (--with-libltdl-libs) for libltdl. This serves at least to point at non standard location, as on FreeBSD (reported by David Durieux)

2.2150 2012-08-06 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/wininit.c: typo in comments
- clients/upsmon.c, common/common.c, scripts/Windows/wininit.c: Fix UPS shutdown Now upsmon stop NUT service before shuting down the OS. When the service stops (with PD flag), it calls "upsdrvctl shutdown".

2.2151 2012-08-06 Charles Lepple <clepple+nut@gmail.com>

- configure.in, docs/man/Makefile.am, docs/man/macosx-ups.txt, drivers/Makefile.am, drivers/macosx-ups.c: macosx-ups: new OS X Power Sources meta-driver Mac OS X provides UPS status information in a format similar to what is shown for laptop batteries. This driver will convert that information into a format compatible with NUT.

2.2152 2012-08-06 Arnaud Quette <arnaud.quette@free.fr>

- docs/documentation.txt: Add a Wikipedia reference on Solar controller
- docs/Makefile.am, docs/images/eaton-logo.png, docs/images/hostedby.png, docs/website/Makefile.am, docs/website/css/web-layout.css, docs/website/web-layout.conf: Free NUT from Eaton website hosting NUT is no more hosted by Eaton. Arnaud Quette (NUT project leader) has taken over NUT hosting on his own, to give NUT back some independance. This effort is also part of a logic to stop crediting Eaton for contributions from others (especially Arnaud Quette, as an individual). The new hosting service is located, as for Arnaud's blog (http://arnaud.quette.fr) on Gandi servers, using PaaS. This will allow more flexibility and automation of the release process

2.2153 2012-08-05 Charles Lepple <clepple+nut@gmail.com>

- drivers/skel.c: Update comments in skel.c Fixed a typo, and added fatalx() as an alternative to fatal_with_errno()
- docs/man/skel.txt: Update skeleton driver man page.

2.2154 2012-08-03 Charles Lepple <clepple+nut@gmail.com>

- docs/man/nutscan.txt, docs/man/nutscan_scan_avahi.txt: nutscan documentation: editing

2.2155 2012-08-02 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c: Disconnect named pipe correctly

2.2156 2012-07-31 Arnaud Quette <arnaud.quette@free.fr>

- docs/images/simple.png: Remove extraneous text
- data/driver.list.in: HCL: Add support for UNITEK Alpha650ipF and Alpha650ipE Add UNITEK Alpha650ipF and Alpha650ipE (USB ID 0x0f03:0x0001) to the list of blazer_usb supported models (reported by Pascal MIRALLES)
- docs/website/projects.txt: Reference Buffalo NAS in Related projects Add a reference in the Related projects, on Buffalo TerraStation (Business-class) NAS range, which uses NUT for power protection

2.2157 2012-07-30 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt, docs/website/news.txt: First NUT virtualization package (VMware ESXI 5.0) Add the reference to the first NUT virtualization package. This one is currently an external effort to add VMware NUT client for ESXI 5.0. But this support will be part of NUT in the long run

2.2158 2012-07-27 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c, drivers/genericups.c, include/wincompat.h: Fix w32_setcomm and w32_getcomm for genericups
- clients/upsclient.c, include/common.h, server/upsd.c, tools/nut-scanner/nutscan-ip.c: Adding Windows 2000 and older support

2.2159 2012-07-25 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/NUT-Installer.xml: Update installer script with oldmge-shut instead of newmge-shut

2.2160 2012-07-24 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in, docs/man/powercom.txt, drivers/powercom-hid.c: Synchronize Powercom USB documentation and code comments. Apparently, there are at least two different models with the USB VID:PID of 0d9f:0004. This update is based on the following report by Gordon Longland: http://lists.alioth.debian.org/pipermail/nut-upsuser/2012-July/007748.html

2.2161 2012-07-23 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/apc-mib.c, drivers/apcsmart.c, drivers/netxml-ups.c, drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c, server/Makefile.am, server/ssl.c: Merge from trunk [SVN:3645] to [SVN:3690]
- common/wincompat.c, drivers/genericups.c, drivers/genericups.h, drivers/serial.c, include/wincompat.h: Porting genericups driver Not tested on real hardware

2.2162 2012-07-23 Charles Lepple <clepple+nut@gmail.com>

- docs/man/powercom.txt: powercom: Mention this driver is serial only

2.2163 2012-07-20 Frederic Bohe <fbohe-guest@alioth.debian.org>

- data/driver.list.in, drivers/Makefile.am: Switch mge-shut to oldmge-shut and newmge-shut to mge-shut
- docs/man/mge-shut.txt: Update mge-shut man page for notification argument.
- drivers/usbhid-ups.c: Add a "notification" parameter to newmge-shut driver. It is only here for compatibility with mge-shut driver. It is ignored since we are always using SHUT_SYNC_OFF in libshut.c.

2.2164 2012-07-20 Emilien Kia <kiae.dev@gmail.com>

- README, docs/Makefile.am, docs/config-notes.txt, docs/contact-closure.txt, docs/macros.txt, docs/man/mge-shut.txt, docs/man/upscli_connect.txt, docs/man/upscli_disconnect.txt, docs/man/upscli_fd.txt, docs/man/upscli_get.txt, docs/man/upscli_list_next.t docs/man/upscli_list_start.txt, docs/man/upscli_readline.txt, docs/man/upscli_sendline.txt, docs/man/upscli_ssl.txt, docs/man/upscli_strerror.txt, docs/man/upscli_upserror.txt, docs/man/upsclient.txt, docs/scheduling.txt, docs/security.txt: Fix trunk merge (pass 2). Apply changes to doc to prepare merge to trunk.

2.2165 2012-07-19 Frederic Bohe <fbohe-guest@alioth.debian.org>

- docs/man/mge-shut.txt: Document ondelay parameter unit discrepency for SHUT drivers mge-shut uses a ten seconds unit for ondelay whereas newmge-shut uses seconds.
- drivers/usbhid-ups.c, drivers/usbhid-ups.h: Add a lowbatt setting to newmge-shut in order to mimic mge-shut setting

2.2166 2012-07-19 Emilien Kia <kiae.dev@gmail.com>

- clients/upsclient.c, server/netssl.c, server/netssl.h: Fix trunk merge. Refactor and clean to prepare merge to trunk.
- server/Makefile.am, server/conf.c, server/netcmds.h, server/{ssl.c ⇒ netssl.c}, server/{ssl.h ⇒ netssl.h}, server/upsd.c: Replace server/ssl.[hlc] by server/netssl.[h\lc] in order to prepare nss branch merging.

2.2167 2012-07-18 Emilien Kia <kiae.dev@gmail.com>

- .gitignore, INSTALL, MAINTAINERS, Makefile.am, NEWS, UPGRADING, autogen.sh, clients/Makefile.am, clients/upsc.c, clients/upsclient.c, clients/upsclient.h, clients/upsmon.c, clients/upsmon.h, clients/upsrw.c, clients/upssched.c, common/Makefile.am, common/common.c, common/parseconf.c, common/state.c, common/upsconf.c, compile, conf/nut.conf.sample, conf/upsd.conf.sample, configure.in, data/cmdvartab, data/driver.list.in, docs/.gitignore, docs/FAQ.txt, docs/Makefile.am, docs/acknowledgements.txt, docs/cables.txt, docs/cables/apc.txt, docs/config-notes.txt, docs/configure.txt, docs/design.txt, docs/developer-guide.txt, docs/developers.txt, docs/documentation.txt, docs/download.txt, docs/features.txt, docs/images/advanced.png, docs/images/bigbox.png, docs/images/bizarre.png, docs/images/nut-logo.png, docs/images/nut.svg, docs/images/simple.png, docs/macros.txt, docs/maintainer-guide.txt, docs/man/.gitignore, docs/man/Makefile.am, docs/man/apcsmart-old.txt, docs/man/apcsmart.txt, docs/man/bcmxcp.txt, docs/man/belkinunv.txt, docs/man/blazer.txt, docs/man/dummy-ups.txt, docs/man/index.txt, docs/man/metasys.txt, docs/man/nut-ipmipsu.txt, docs/man/nut-recorder.txt, docs/man/nut-scanner.txt, docs/man/nut.conf.txt, docs/man/nutscan.txt, docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_add_option_to_device.txt, docs/man/nutscan_
docs/man/nutscan_display_parsable.txt, docs/man/nutscan_display_ups_conf.txt, docs/man/nutscan_free_device.txt, docs/man/nutsca
docs/man/nutscan_new_device.txt, docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan_nut.t
docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt, docs/man/nutupsdrv.txt, docs/man/oneac.txt, docs/man/powercom.txt, docs/man/snmp-ups.txt, docs/man/ups.conf.txt, docs/man/upsc.txt, docs/man/upscli_list_start.txt, docs/man/upsd.users.txt, docs/man/upsmon.txt, docs/man/upsrw.txt, docs/net-protocol.txt, docs/new-clients.txt, docs/new-drivers.txt, docs/nut-names.txt, docs/security.txt, docs/sock-protocol.txt, docs/stable-hcl.txt, docs/support.txt, docs/website/Makefile.am, docs/website/css/web-layout.css, docs/website/faviconut.ico, docs/website/faviconut.png, docs/website/news.txt, docs/website/projects.txt, docs/website/ups-protocols.txt, docs/website/web-layout.conf, drivers/.gitignore, drivers/Makefile.am, drivers/apc-hid.c, drivers/apc-mib.c, drivers/apcsmart-old.c, drivers/apcsmart-old.h, drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c, drivers/apcsmart_tabs.h, drivers/bcmxcp.c, drivers/bcmxcp.h, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/belkin-hid.c, drivers/belkinunv.c, drivers/bestfcom.c, drivers/bestfortress.c, drivers/bestpower-mib.c, drivers/bestups.c, drivers/blazer.c, drivers/blazer_ser.c, drivers/blazer_usb.c, drivers/compaq-mib.c, drivers/cps-hid.c, drivers/cyberpow
mib.c, drivers/cyberpower-mib.h, drivers/dstate.c, drivers/dstate.h, drivers/dummy-ups.c, drivers/dummy-ups.h, drivers/eaton-mib.c, drivers/eaton-mib.h, drivers/etapro.c, drivers/gamatronic.c, drivers/genericups.c, drivers/ietf-mib.c, drivers/isbmex.c, drivers/libhid.c, drivers/libshut.c, drivers/liebert-esp2.c, drivers/liebert-hid.c, drivers/main.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-hid.c, drivers/mge-mib.c, drivers/mge-shut.c, drivers/mge-utalk.c, drivers/microdowell.c, drivers/netvision-mib.c, drivers/netxml-ups.c, drivers/nut-ipmi.h, drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c, drivers/oneac.c, drivers/oneac.h, drivers/powercom-hid.c, drivers/powercom.c, drivers/powercom.h, drivers/powerware-mib.c, drivers/raritan-pdu-mib.c, drivers/rhino.c, drivers/safenet.c, drivers/snmp-ups.c, drivers/snmp-ups.h, drivers/solis.c, drivers/tripplite-hid.c, drivers/tripplite_usb.c, drivers/tripplitesu.c, drivers/upscode2.c, drivers/upshandler.h, drivers/usb-common.c, drivers/usbhid-ups.c, include/.gitignore, include/Makefile.am, include/common.h, include/extstate.h, include/nut_stdint.h, include/parseconf.h, include/state.h, lib/.gitignore, lib/Makefile.am, lib/README, lib/libnutscan.pc.in, lib/libupsclient-config.in, lib/libupsclient.pc.in, m4/ax_create_stdint_h.m4, m4/nut_check_libavahi.m4, m4/nut_check_libfreeipmi.m4, m4/nut_check_libltdl.m4, m4/nut_check_libwrap.m4, m4/nut_check_os.
m4/nut_report_feature.m4, scripts/HP-UX/.gitignore, scripts/HP-UX/makedepot.sh, scripts/HP-UX/nut.psf.in, scripts/Makefile.am, scripts/README, scripts/augeas/Makefile.am, scripts/augeas/README, scripts/avahi/nut.service.in, scripts/java/Makefile.am, scripts/java/README, scripts/java/jNut/README, scripts/java/jNut/pom.xml, . . . /main/java/org/networkupstools/jnut/Clien
. . . /java/org/networkupstools/jnut/Command.java, . . . /main/java/org/networkupstools/jnut/Device.java, . . . /org/networkupstools/jnut/
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. . . /java/org/networkupstools/jnut/ClientTest.java, . . . /java/org/networkupstools/jnut/ScannerTest.java, scripts/java/jNutList/READM

scripts/java/jNutList/pom.xml, . . . /java/org/networkupstools/jnutlist/AppList.java, scripts/java/jNutWebAPI/README, scripts/java/jNutWebAPI/pom.xml, . . . /jnutwebapi/NutRestProvider.java, . . . /jnutwebapi/RestWSApplication.java, . . . /jnutwebapi/Scanner . . . /jNutWebAPI/src/main/webapp/WEB-INF/web.xml, scripts/logrotate/nutlogd, scripts/python/module/PyNUT.py, scripts/systemd/Makefile.am, scripts/systemd/README, scripts/systemd/nut-driver.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in, scripts/systemd/nutshutdown.in, scripts/udev/.gitignore, scripts/udev/Makefile.am, scripts/udev/README, scripts/udev/nut-ipmipsu.rules.in, scripts/ufw/README, scripts/ufw/nut.ufw.profile.in, scripts/upower/95-upower-hid.rules, server/Makefile.am, server/netcmds.h, server/netget.c, server/netget.h, server/netinstcmd.c, server/netinstcmd.h, server/netlist.c, server/netlist.h, server/netmisc.c, server/netmisc.h, server/netset.c, server/netset.h, server/netssl.c, server/netssl.h, server/netuser.c, server/netuser.h, server/{ctype.h ⇒ nut_ctype.h}, server/sstate.c, server/sstate.h, server/upsd.c, server/upsd.h, server/user.c, tests/Makefile.am, tests/cpputest.cpp, tests/example.cpp, tools/Makefile.am, tools/git-svn.authors, tools/nut-hclinfo.py, tools/{device-recorder.sh ⇒ nut-recorder.sh}, tools/nut-scanner/Makefile.am, tools/nut-scanner/README, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-device.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-init.h, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c, tools/nut-snmpinfo.py, tools/nut-usbinfo.pl, tools/svn2cl.authors: Merge from trunk [SVN:2848] to [SVN:3679] to ssl-nss-port. Note: a problem is occurring for server/ssl.[h\|c]: they have been moved to server/netssl.[h\|c] but consider them as removed. For the branch merging to trunk, consider paying attention to the case of these files (removing them by hand).

2.2168 2012-07-17 Arnaud Quette <arnaud.quette@free.fr>

- drivers/apc-mib.c: APC SNMP MIB update and completion Add available high precision values, new variables (input.transfer.reason, battery.current.total and ups.test.date), and move ambient.{temperature,humidity}.{high,low} to ambient.1.*, since they relate to alarm threshold of external probe 1 (patch from Hong-Gunn Chew)
- docs/nut-names.txt: Clarify the use of multiple ambient sensors Multiple sensors can be exposed using the indexed notation. *ambient.**, without index or using *0*, relates to the embedded sensor. For example: *ambient.temperature* represent the embedded sensor temperature. Other sensors (external, communication card, . . .) can use indexes from *1* to *n*. For example: *ambient.1.temperature* for the first external sensor temperature.
- docs/nut-names.txt: NUT namespace completion Add two new variables *ups.test.date* and *battery.current.total*. Also add a note on the *ambient* collection for supporting multiple sensors

2.2169 2012-07-16 Arnaud Quette <arnaud.quette@free.fr>

- drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c, m4/nut_check_libfreeipmi.m4, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/sca
  Support for FreeIPMI 1.1.x and 1.2.x Prepare for supporting API changes in FreeIPMI 1.1.x and 1.2.x. This is mostly related to SDR API simplifications. A 2nd iteration will probably address code redundancy, whenever possible

2.2170 2012-07-10 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/eaton-mib.c, drivers/eaton-mib.h, drivers/snmp-ups.c, drivers/snmp-ups.h: Add support for Eaton ePDU Switched (Pulizzi) Implement support for older Eaton / Powerware ePDU Switched. These were once sold as Pulizzi, and have now been replaced by newer model (Eaton Marlin implementation and others)

2.2171 2012-07-09 Emilien Kia <kiae.dev@gmail.com>

- configure.in: Fix CppUnit detection. Fix inconsistent test for CppUnit install (using pkg-config) to really enable unit tests.

2.2172 2012-07-05 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nut-ipmipsu.txt: Fix an error on possible power supplies status

2.2173 2012-07-04 Arnaud Quette <arnaud.quette@free.fr>

- clients/upssched.c: Fix upssched regression Coverity branch merge [SVN:3555] introduced a regression: any upssched.conf command that takes a second argument resulted in a defective frame sent to the parent process. Thus, the command was not executed (patch from Oliver Schonefeld)
- Makefile.am, configure.in, tests/.gitignore, tests/Makefile.am, tests/cpputest.cpp, tests/example.cpp: Add basic infrastructure for unit tests Merge eki-unittests branch, with some adjustments, to add a basic initial infrastructure for unit tests, using CppUnit (v1.9.6\+) (from Emilien Kia, from Eaton)

2.2174 2012-07-03 Arnaud Quette <arnaud.quette@free.fr>

- scripts/systemd/nut-driver.service.in, scripts/systemd/nutshutdown.in: Fix upsdrvctl call path upsdrvctl is located in @driverexecdir@, not @SBINDIR@ (reported by Michal Hlavinka, from Redhat)

2.2175 2012-06-15 Arnaud Quette <arnaud.quette@free.fr>

- configure.in: Adapt systemd installation directory #2 Complete previous commit by also adapting paths for service files

2.2176 2012-06-14 Arnaud Quette <arnaud.quette@free.fr>

- configure.in: Adapt systemd installation directory Adapt systemd installation directory for the shutdown script, so that it does not try to install it in the actual system directory, but to the pointed build directory, including a sub directory prefix
- docs/new-clients.txt: Fix broken link to upscli_*(3) HTML manual pages

2.2177 2012-06-12 Arnaud Quette <arnaud.quette@free.fr>

- configure.in: Fix WITH_SSL and WITH_NSS AM_CONDITIONAL definitions nut_with_nss / nut_with_openssl must be set to "yes", otherwise AM_CONDITIONAL counterpart WITH_NSS / WITH_SSL is not defined
- docs/new-drivers.txt: Forgotten mention upsdrv_info_t→name is also published as "driver.name" variable
- docs/man/belkinunv.txt, drivers/belkinunv.c, drivers/main.c, drivers/masterguard.c, drivers/metasys.c, drivers/mge-utalk.c, drivers/microdowell.c, drivers/nut-ipmipsu.c, drivers/safenet.c, drivers/tripplitesu.c, drivers/usbhid-ups.c: Remove redundant driver.version.i publication
- configure.in, docs/configure.txt, docs/man/nut-scanner.txt: Add missing references to libltdl for nut-scanner nut-scanner requires libltdl (Libtool dlopen abstraction) since NUT 2.6.3. Documentations have been completed, and nut-scanner build status is now exposed in the build configuration summary
- drivers/snmp-ups.c: Fix publication of driver.version.data Publish the MIB name and version in driver.version.data, rather than merged into driver.version.internal
- drivers/netxml-ups.c: Fix publication of driver.version.data netxml-ups subdriver version is to be tracked in driver.version.data, not in driver.version.internal
- docs/nut-names.txt: Add missing variable driver.version.data Add variable driver.version.data, to track version of the internal data mapping, for generic drivers (reported by Luiz Angelo Daros de Luca)
- docs/nut-names.txt: Fix comment for driver.version.internal Drivers internal version are always tracked separately, and stored in driver.version.internal

2.2178 2012-06-11 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c: apcsmart: tcsetattr/tcgetattr addendum This small patch moves the comparison sequence into separate function. No functional changes. Also minor retab! run on defines.

2.2179 2012-06-11 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: HCL: Add support for REDi Blazer Add REDi Blazer 400VA / 600VA / 800VA to the list of blazer_ser supported models (reported by Marius Gavrilescu)
- docs/nut-names.txt: Fix a typo error on power.minimum description power.minimum is really the minimum seen apparent power in VA (reported by Luiz Angelo Daros de Luca)

2.2180 2012-06-07 Charles Lepple <clepple+nut@gmail.com>

- drivers/oneac.h: Remove unused constants to fix LLVM compilation error.

2.2181 2012-06-07 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/blazer_usb.c: HCL: Add support for Online Zinto A to blazer_usb Add Online Zinto A (USB ID 0x06da:0x0601) to the list of blazer_usb supported models (reported by Carsten Burkhardt)

2.2182 2012-06-05 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/news.txt, docs/website/projects.txt: WMNut updates Update WMNut release (0.64) and hosting URL

2.2183 2012-06-04 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c, docs/man/upsd.users.txt, drivers/apc-mib.c, drivers/apcsmart.c, drivers/dummy-ups.h, drivers/netvision-mib.c, include/wincompat.h: Merge from trunk [SVN:3541] to [SVN:3644] (upgrade to 2.6.4)

2.2184 2012-06-04 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt, docs/website/news.txt: Update Windows package publications for 2.6.4-1

2.2185 2012-05-31 Arnaud Quette <arnaud.quette@free.fr>

- NEWS, UPGRADING, configure.in, docs/website/news.txt: Final update for 2.6.4 release

2.2186 2012-05-30 Prachi Gandhi <prachi-guest@alioth.debian.org>

- scripts/Solaris/preinstall: Updated preinstall script for *nut* group, user checking
- Makefile.am, scripts/Solaris/Makefile.am, scripts/Solaris/preinstall: Added checking for existing *nut* group, user and updated package name

2.2187 2012-05-30 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: HCL: Add support for Cyber Power Systems CP1000PFCLCD Add CyberPower Systems CP1000PFCLCD (USB ID 0x0764:0x0501) to the list of usbhid-ups supported models (reported by David Owen)
- drivers/apc-mib.c: Track more APC SNMP sysOID values, as comments
- drivers/upshandler.h: Fix code spacing (no functional change)
- drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c: Add some debug traces on incoming / outgoing data

- INSTALL: Add missing reference to nut.conf manual page
- drivers/bestfortress.c: Improve Best Fortress LI675VA support Apply an old missed patch: all responses are preceded and terminated by "CR LF". But bestfortress driver discards anything after the first "CR LF". This patch trims everything up to the first LF. (patch from Jørgen Thomsen)
- drivers/metasys.c: Remove extraneous spaces (no functional changes)

2.2188 2012-05-29 Prachi Gandhi <prachi-guest@alioth.debian.org>

- Makefile.am, configure.in, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-init.h, tools/nut-scanner/scan_snmp.c: Changes in nut-scanner to remove Sparc *usmAESPrivProtocol* error while creating package

2.2189 2012-05-29 Arnaud Quette <arnaud.quette@free.fr>

- common/parseconf.c: Fix CVE-2012-2944: upsd can be remotely crashed NUT server (upsd), from versions 2.4.0 to 2.6.3, are exposed to crashes when receiving random data from the network. This issue is related to the way NUT parses characters, especially from the network. Non printable characters were missed from strings operation (such as strlen), but still copied to the buffer, causing an overflow. Thus, fix NUT parser, to only allow the subset Ascii charset from Space to \~ (Reported by Sebastian Pohle, Alioth bug #313636, CVE-2012-2944)
- data/driver.list.in: HCL: Add support for Lexis X-power Tigra 1kVA Add Lexis X-power Tigra 1kVA to the list of blazer_ser or bestups supported models (reported by Tmima Pliroforikis Perifereiakis Enotitas Pierias)
- data/driver.list.in: HCL: Encourage the use of blazer_ser instead of bestups Mention blazer_ser as prefered compared to bestups. Recent changes to blazer_ser have made it possible to use it instead of bestups. In the end, bestups will be replaced by blazer_ser, as for other Megatec/Q1 drivers
- drivers/blazer.c, drivers/blazer_ser.c: Improve Best UPS support in blazer Best UPS units, which use a subset of the Megatec/Q1 protocol, supported by the blazer drivers, can now work with blazer_ser. This support is still limited, but already offers a decent set of features

2.2190 2012-05-25 Arnaud Quette <arnaud.quette@free.fr>

- server/user.c: Add debug traces for instcmds and actions Whenever upsd adds an instant command or an action, from upsd.users, display a debug trace
- docs/man/upsd.users.txt: Clarify multiple actions specification Add more details and an example, to illustrate multiple actions specification (reported by Emilien Kia, from Eaton)

2.2191 2012-05-24 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: HCL: Add support for Eaton Management Card Contact Add Eaton Management Card Contact (ref 66104) to the list of mge-shut or mge-utalk supported models
- drivers/compaq-mib.c: HP SNMP completion Complete HP SNMP mapping table, with thresholds, nominal values and more commands

2.2192 2012-05-23 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/projects.txt: Reference Thecus NAS in Related projects Add a reference in the Related projects, on Thecus NAS range, which uses NUT for power protection

2.2193 2012-05-22 Arnaud Quette <arnaud.quette@free.fr>

- drivers/apcsmart.c, drivers/apcsmart.h: Complete previous commit for HP-UX HP-UX does not support VREPRINT, so make it conditional
- drivers/apcsmart.c, drivers/apcsmart.h: Fix commit [SVN:3603] Commit [SVN:3603] (fix tcsetattr() / tcgetattr() issue) has introduced some incompatibility with older Unix systems, such as Solaris, Aix and HP-UX. The present commit should address it. * scripts/java/jNut/src/main/java/org/networkupstools/jnut/Variable.java: Adjust comment (no functional change)
- configure.in, docs/net-protocol.txt, server/netcmds.h, server/netmisc.c, server/netmisc.h: Add versioning to the network protocol Due to the number of recent evolutions to the network protocol, along with other possible future changes, NUT network protocol is now versioned. The chapter "Network protocol information", of the developer guide, stores the revision history, while a new "NETVER" command serves this information through the protocol

2.2194 2012-05-21 Prachi Gandhi <prachi-guest@alioth.debian.org>

- Makefile.am, scripts/HP-UX/Makefile, scripts/HP-UX/nut.psf.in, scripts/Makefile.am: generalized *make package* call for Solaris, HPUX package; updated nut.psf.in for HPUX

2.2195 2012-05-21 Charles Lepple <clepple+nut@gmail.com>

- drivers/belkin-hid.c: Fix Liebert firmware (incorrect exponents) There are at least two Liebert firmware types which both report a VID:PID of 10af:0001. The newer ones tend not to have the Belkin broken Usage Pages (and therefore use standard HID PDC paths) but they have incorrect exponents for some fields. This patch fixes the values for the latter implementation

2.2196 2012-05-21 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: HCL: Complete the supported PowerWalker ranges Add PowerWalker Online VFI LCD, Line-Interactive VI LCD and Line-Interactive VI models to the list of blazer_usb supported models
- data/driver.list.in: HCL: Add support for Microline C-Lion Innova ranges Add Microline C-Lion Innova models to the list of blazer_usb supported models
- data/driver.list.in: HCL: Add support for KOLFF ranges Add KOLFF BLACK NOVA models to the list of blazer_usb supported models
- data/driver.list.in: HCL: Add support Ippon INNOVA RT range Add Ippon INNOVA RT models to the list of blazer_usb supported models
- data/driver.list.in: HCL: Add support for Gtec ranges Add Gtec models to the list of blazer_ser or blazer_usb supported models
- data/driver.list.in: HCL: Complete the supported EVER ranges Add EVER POWERLINE RT / 11 / 31 and DUO II Pro models to the list of blazer_ser or blazer_usb supported models
- data/driver.list.in: HCL: Add support for COVER ENERGY SA ranges Add COVER ENERGY SA models to the list of blazer_usb supported models
- data/driver.list.in: HCL: Add support for Borri ranges Add Borri models to the list of blazer_usb supported models
- data/driver.list.in: HCL: Add support for ARTronic ranges Add ARTronic models, both serial and USB, to the list of blazer_ser and blazer_usb supported models
- data/driver.list.in, drivers/netvision-mib.c: Add 3-phases support to Socomec Netvision MIB Improve Socomec Netvision MIB, by adding support for 3-phases UPS (patch from Manuel Bouyer)
- data/driver.list.in: HCL: Add support for PowerShield Defender 1200VA Add PowerShield Defender 1200VA (USB ID 0665:5161) to the list of blazer_usb supported models (reported by Tom Clarkson)
- drivers/blazer.c, drivers/blazer_ser.c, drivers/blazer_usb.c: beeper.status belongs to the "ups" data collection

2.2197 2012-05-16 Arnaud Quette <arnaud.quette@free.fr>

- drivers/apcsmart.c, drivers/apcsmart.h: Final fix to the tcsetattr() / tcgetattr() issue The most likely cause of all spurious differences between what was set on the port with tcsetattr() and what tcgetattr() shows are likely to do with the c_local PENDIN flag, which is a status bit, not a control bit. It will change when there's unread pending input, which can be quite often on an APC UPS. The right way to compare struct termios values is to clear the status flags *after* the tcsetattr() and of course after the tcgetattr() call and then compare the result with what was set. Also set NOKERNINFO, if available, as we don't want the UPS or noise on the line to accidentally trigger status output back to the UPS, and finally make sure IEXTEN is also cleared along with ISIG since it too can cause weird things to happen. This change also adds some debug code to show any differences in the structures in a logical manner in debug output (and squashes one tiny compiler warning) (patch from Greg A. Woods)
- docs/config-notes.txt, docs/man/upsmon.txt: Whitespace fixes Remove some extraneous spaces, suggested by "git diff --check", and improve a bit formatting (patch #36 from Greg A. Woods)

2.2198 2012-05-15 Prachi Gandhi <prachi-guest@alioth.debian.org>

- scripts/Solaris/Makefile.am: Updated scripts/Solaris/Makefile.am to remove prototype, checkinstall
- scripts/Solaris/checkinstall, scripts/Solaris/precheck.py, scripts/Solaris/prototype: Deleted checkinstall, prototype files
- Makefile.am, scripts/Solaris/Makefile.am, scripts/Solaris/pkginfo.in, scripts/Solaris/prepackage.py, scripts/Solaris/preproto.pl: Added perl script to create prototype file onsolaris platform, updated Makefile.am
- m4/nut_check_os.m4: Added perl script to create prototype file onsolaris platform, updated Makefile.am

2.2199 2012-05-15 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c, drivers/snmp-ups.h: Remove dead code Remove dead code, related to shutdown handling (no functional changes) (based on patch #29 from Greg A. Woods)
- docs/nut-names.txt: Fix formating issue
- docs/nut-names.txt: Add missing battery.voltage data to the namespace Add missing battery.voltage.{low,high} to the standard NUT namespace
- docs/nut-names.txt, drivers/upscode2.c: Rename peakcurrent to current.peak (as per RFC) Rename peakcurrent to current.peak, since it is more coherent and suitable
- drivers/dummy-ups.c, drivers/dummy-ups.h: Update and cleanup Convert flags defitions to bitwise left shift, convert some comments about variables to actual values, and do a bit of cleanup (patch #27 from Greg A. Woods)
- drivers/blazer.c: Add comment on shutdown.return ondelay value Add a comment reinforcing the need for ondelay=3 (partial patch #26 from Greg A. Woods)
- docs/man/snmp-ups.txt: Complete APC SNMP compatibility information Mention more varieties of APC SNMP cards, and mention the POWERNET MIB (patch #25 from Greg A. Woods)
- drivers/netvision-mib.c: Fix status processing for "ECO mode" When running in "ECO mode", the driver should report an ups.status set to "OL", or it otherwise ends up with an empty string that confuses upsmon (patch from Ivan Kuznetsov)

2.2200 2012-05-14 Frederic Bohe <fbohe-guest@alioth.debian.org>

- server/Makefile.am: Keep same sockdebug's binary name for all OS.
- configure.ac: Add general Windows conditional (by Arnaud Quette)

2.2201 2012-05-14 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/blazer.txt: Mention General Electric in blazer manual page Mention General Electric as a user of the Megatec/Q1 protocol (patch #24 from Greg A. Woods)
- clients/upsmon.h: Use bitwise left shift for flags definitions Use (1 << N) to define a bit flag at bit N, which is more coherent with other similar implementations in NUT (patch #23 from Greg A. Woods)
- clients/upsmon.c: Cosmetic changes Remove dead / redundant #defines, and enable interesting debug traces that were commented out (based on patch #22 from Greg A. Woods)
- drivers/apcsmart.h: Use bitwise left shift for status flags definitions Use (1 << N) to define a bit flag at bit N, which is more coherent with other similar implementations in NUT (patch #21 from Greg A. Woods)
- drivers/apcsmart.c, drivers/apcsmart.h: Don't be too strict about terminal settings Don't log an error when tcgetattr() reports different settings on the port (patch #20 from Greg A. Woods)
- tools/nut-usbinfo.pl: Better filtering on USB related files The current USB information extraction script is not optimal at filtering files that need to be inspected. While waiting for a proper rewrite, improve a bit more filenames filtering (patch #18 from Greg A. Woods)
- drivers/blazer_ser.c: Quote the debug output for space visibility Quote the debug output so one can see how many spaces there are (patch #16 from Greg A. Woods)
- docs/cables/apc.txt: Update APC cabling information Update information about APC cable model numbering and revisions (patch #16 from Greg A. Woods)
- data/driver.list.in: HCL: GE Digital Energy updates Rename "GE" to "GE Digital Energy", which is more appropriate in this context. Also add GT Series 1000-3000 VA to the list of blazer_ser supported models (patch #15 from Greg A. Woods)
- docs/developers.txt: Complete notes on spaces for alignements Add complementary note on the use of spaces for alignements (patch #14 from Greg A. Woods)
- docs/design.txt: Use more suitable examples Use an example driver name matching the unified NUT drivers generic manual page name (patch #13 from Greg A. Woods)
- drivers/mge-hid.c: Complete and update Eaton HID usages table

2.2202 2012-05-11 Frederic Bohe <fbohe-guest@alioth.debian.org>

- server/Makefile.am, server/pipedebug.c: Add pipedebug program pipedebug has the same goal as socketdebug for the WIN32 side.

2.2203 2012-05-11 Arnaud Quette <arnaud.quette@free.fr>

- tools/Makefile.am: Fix typo in comment Fix a typo error in comment (reported by Fred Bohé, from Eaton)
- scripts/upower/95-upower-hid.rules: Update upower script Update upower script with recent changes and updates (redundant with patch #6 from Greg A. Woods)
- tools/Makefile.am: Explicit mention of Makefiles brokenness Document that, at least, this Makefile.am is broken by design (patch #5 from Greg A. Woods)
- docs/man/apcsmart.txt: Fix documentation wording "there're" is not a valid contraction, especially not in a technical document (patch #4 from Greg A. Woods)
- docs/man/apcsmart.txt: Always use upper case for the acronym "UPS" Be consistent in using all upper case for the acronym "UPS" (Ie Uninterruptible Power Supply) (patch #3 from Greg A. Woods)
- docs/man/apcsmart.txt: Fix SmartUPS cabling nomenclature Correct the nomenclature of the SmartUPS cabling part numbers (patch #2 from Greg A. Woods)

- configure.in: Fix a configure error message Asciidoc might actually be installed but documentation might still not be build-able (earlier messages should hint at exactly what was missing) (patch #1 from Greg A. Woods)
- data/driver.list.in: HCL: Add support for ATEK Defensor range Add ATEK Defensor range (Innova series) to the list of blazer_usb supported models
- data/driver.list.in: HCL: Fix EVER brand name The correct name is "EVER", not "EVER UPS", as per a request from the manufacturer

2.2204 2012-05-10 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/news.txt: Update for WMNut 0.63 publication
- docs/website/ups-protocols.txt: Official Riello protocols publication

2.2205 2012-05-09 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/Makefile.am, clients/message.c, clients/upsmon.c, scripts/Windows/Installer/NUT-Installer.xml: Add an external wall-like application. In order to avoid weird behavior of MessageBox with MB_SERVICE_NOTIFICATION flag at exit time; I added an external application in charge of displaying the message boxes (much like the wall command).

2.2206 2012-05-08 Prachi Gandhi <prachi-guest@alioth.debian.org>

- Makefile.am, scripts/Solaris/Makefile.am, scripts/Solaris/prepackage.py: Added python script to create pkginfo.in and check-install scripts depending upon the solaris platform

2.2207 2012-05-03 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c: Fix journal event truncation.

2.2208 2012-05-03 Arnaud Quette <arnaud.quette@free.fr>

- drivers/libshut.c, drivers/mge-shut.c: Forgotten driver version bump
- clients/upsmon.c: Coverity fix on upsmon Remove an unneeded null check, that cause a Coverity error (reported by Michal Hlavinka from RedHat)
- drivers/libshut.c, drivers/mge-shut.c: Coverity fix on Eaton SHUT Fix some tests that are always false, regardless of the values of operands (reported by Michal Hlavinka from RedHat)

2.2209 2012-05-02 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/NUT-Installer.xml: Add more DLLs in bin directory These are used by netxml-ups driver and nut-scanner tool.
- scripts/Windows/Installer/BuildInstaller.bat: Make sure upssched.conf is DOS compatible
- conf/upsd.conf.sample: Update comments for IPv6 on Windows platforms
- scripts/Windows/Installer/NUT-Installer.xml: Add libneon-27.dll and libnetsnmp-30.dll in bin directory These are used respectively by netxml and snmp-ups drivers.

2.2210 2012-05-02 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt, docs/website/news.txt: Update Windows package publications
- common/Makefile.am, include/Makefile.am: Better handling of nut_version.h nut_version.h should not be distributed, since it is automatically built. Moreover, hard dependency in common/ is not needed since BUILT_SOURCES reference ensure generation before any other target: http://www.gnu.org/software/automake/manual/automake.html#Sources (Reported by Regid Ichira, Debian bug #613643)

2.2211 2012-04-27 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/cps-hid.c: Add support for CyberPower Systems PR6000LCDRTXL5U Add CyberPower Systems PR6000LCDRTXL5U (USB ID 0x0764:0x0601) to the list of usbhid-ups supported models (reported by Dax Kelson)
- data/driver.list.in: HCL: Complete HP supported devices list Add HP UPS Management Module to the list of snmp-ups supported models. Also complete serial compatibility for some models, using mge-shut

2.2212 2012-04-26 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/NUT-Installer.xml: libupsclient-1.dll is needed in "bin" too
- scripts/Windows/Installer/NUT-Installer.xml: Add nut-scanner files and libupsclient-1.dll to the MSI installer
- scripts/Windows/Installer/BuildInstaller.bat: echo a comment

2.2213 2012-04-25 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nut-scanner.txt: Clarify nut-scanner compilation and distribution Document explicitely how nut-scanner is compiled, and how its features are made available, according to its dependencies (both compile time and runtime)

2.2214 2012-04-24 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_nut.c: Merge from trunk [SVN:3511] to [SVN:3539]
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-init.h, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Cleaner exit for nut-scanner

2.2215 2012-04-23 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/serial.h: Completely skip termios.h with WIN32 The latest MinGW raise errors on termios.h, so we skip it for now.
- tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Be more verbose when failing to dynamically load a library

2.2216 2012-04-17 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsmon.c: Make the message box of notify non-blocking

2.2217 2012-04-14 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/.gitignore, docs/man/Makefile.am, docs/man/index.txt, docs/man/nut-recorder.txt, tools/nut-recorder.sh: Create nut-recorder manual page
- drivers/tripplite-hid.c: HP USB UPS completion #3 Remove R/T3000 USB ID (0x03f0:0x1fe5) from the TrippLite HID mapping, since it is supported by the Eaton HID mapping. This completes commit
- drivers/usbhid-ups.c: Correct Celsius temperatures that should be in Kelvin Check if raw value is in the Kelvin range, to detect buggy values that are already expressed in Celsius degrees, as found on some HP devices
- docs/developer-guide.txt, tools/Makefile.am, tools/{device-recorder.sh ⇒ nut-recorder.sh}: Rename device-recorder to nut-recorder
- data/driver.list.in: HCL: Reorder Dell devices by connection type

2.2218 2012-04-10 Arnaud Quette <arnaud.quette@free.fr>

- scripts/systemd/nut-driver.service.in, scripts/systemd/nut-monitor.service.in, scripts/systemd/nut-server.service.in, scripts/systemd/nutshutdown.in: Fix broken systemd integration in the build system Step 2: add the theoretical path templates to the systemd scripts. This however requires adjustments to the RPM package. Namely, upsd and upsmon will have to be installed in /sbin, instead of the current /usr/sbin
- configure.in, scripts/systemd/Makefile.am: Fix broken systemd integration in the build system Step 1: remove Makefile rules that were both useless, and causing warning. Generate nut-*.service files from .in templates in configure, as it should be, which is currently void since there is no target to substitute. This has however required to export SBINDIR and PIDPATH through AC_SUBST, in configure
- clients/upsrw.c, common/state.c, docs/man/upscli_list_start.txt, docs/man/upsrw.txt, docs/net-protocol.txt, docs/new-drivers.txt, docs/sock-protocol.txt, drivers/dstate.c, drivers/dstate.h, include/extstate.h, include/state.h, server/netget.c, server/netlist.c, server/netset.c, server/sstate.c, server/sstate.h: Support of ranges of values for writable variables It is now possible to specify one or more ranges of values for writable variables, using dstate_addrange() in drivers. upsd also supports the new type *RANGE* for *GET TYPE*, along with the *LIST RANGE* command. Finally, users can interact through upsrw, which displays the supported ranges, and enforces new value checking against the provided boundaries
- drivers/mge-hid.c: HP USB UPS completion #2 Address HP USB/HID devices, that use the Eaton HID definitions. This includes the latest products range (USB IDs 0x1fe5, 0x1fe6, 0x1fe7 and 0x1fe8), and few more variables and commands
- drivers/mge-hid.c: Fix Eaton / MGE outlet.2.switchable flags outlet.2.switchable should only be writable to enable ECO mode on Ellipse ECO, Protection Station and some 3S. Other models should only expose it as read only (reported by Prachi Gandhi from Eaton, Alioth bug #313587)

2.2219 2012-04-06 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/Makefile.am, m4/nut_check_socketlib.m4: Fix conditional Makefile for WIN32
- clients/Makefile.am: Conditional Makefile for WIN32

2.2220 2012-04-04 Arnaud Quette <arnaud.quette@free.fr>

- scripts/Makefile.am, scripts/logrotate/nutlogd: Provide log rotation configuration for NUT Provide a basic configuration file for managing rotation (logrotate) of NUT log files, generated by upslog

2.2221 2012-04-03 Frederic Bohe <fbohe-guest@alioth.debian.org>

- configure.ac: This doesn't make it through past merges.

2.2222 2012-04-02 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-names.txt: Update the namespace Complete the namespace with missing variables and commands, that are either known or have had an RFC
- docs/man/.gitignore: Subversion ignored files completion Mark nutscan_init.html as Subversion ignored (no functional changes)

2.2223 2012-03-31 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: HCL: Add support for AEG Power Solutions PROTECT HOME Add AEG Power Solutions PROTECT HOME (USB ID 0x0665:0x5161) to the list of blazer_ser and blazer_usb supported models (reported by Joachim Schiele)

2.2224 2012-03-30 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nutscan-init.c: This is needed for non WIN32 too.
- common/common.c: Special case when sending signal 0

2.2225 2012-03-30 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bcmxcp_usb.c: Add debug traces for read / write commands
- common/common.c, include/common.h: Improve support functions for trimming strings Enforce verifications in rtrim, and add an ltrim function

2.2226 2012-03-29 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/blazer_usb.c: Add support Innova online UPS family Add Innova T (0x06da:0x0201), Innova RT (0x06da:0x0005) and Innova 3/1 T (0x06da:0x0004) to the list of of blazer_usb and blazer_ser supported models. Innova series are online UPS supporting Q1 for compatibility, and many more commands. Better support, either through blazer_* rewrite or through a new driver, is considered as a future possibility

2.2227 2012-03-26 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c: Small correction to error messages.

2.2228 2012-03-24 Arnaud Quette <arnaud.quette@free.fr>

- configure.in, docs/Makefile.am, docs/security.txt, scripts/Makefile.am, scripts/ufw/.gitignore, scripts/ufw/README, scripts/ufw/nut.ufw.profile.in: Uncomplicated Firewall (UFW) support Provide an Uncomplicated Firewall (UFW) profile (nut.ufw.profile) to tightly integrate NUT, along with some documentation completion for the Security chapter of the user manual

2.2229 2012-03-23 Arnaud Quette <arnaud.quette@free.fr>

- conf/nut.conf.sample, docs/man/nut.conf.txt: Fix nut.conf documentation and sample file Since nut.conf is intended to be sourced by shell scripts, spaces must not be added around the equal sign. Fix documentation and sample file to conform to this purpose, and add bold warning (reported by Tim Rice, Alioth bug #312452)
- clients/upsmon.c, server/upsd.c: Detect duplicate instances of upsd / upsmon Fix a long standing issue, that is the lack of detection of duplicate upsd / upsmon instances when starting another one of these daemons. This previously resulted in inconsistencies, such as being unable to stop the daemon, due to its .pid file being removed by the newly started instance (last reported by Andrew Min Chang)

2.2230 2012-03-21 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/libshut.c: Avoid stack corruption on invalid frame In the protocol, the frame size can be 8 bytes max. That is why the frame buffer is only 8 bytes long. If the frame is corrupted, the size read may be up to 15, which may corrupt the stack while writing into the frame buffer. This patch add a simple sanity check on the size to avoid a crash and enforce protocol limitation.
- drivers/libshut.c: Fix SHUT variables read (from Arnaud Quette)
- drivers/bcmxcp.c, drivers/bcmxcp.h, drivers/bcmxcp_usb.c: Change timeout for PW9120 Current timeout (1 sec) is too short for PW9120: numerous frames are lost. Setting this to 2 seconds fix this.
- drivers/libshut.c: Deactivate UPS notification Currently this driver is ignoring notification by automatically sending NACK when they are received. Nevertheless,this behavior creates communication errors with some UPS (M2200). So this patch completly disable the sending of notification from the UPS. Ideally we should correclty implement notifications managment for optimal performance, but with this patch, at least, communiaton works.
- drivers/libshut.c: Fix shut notification mask

2.2231 2012-03-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_nut.c: Fix indentation
- tools/nut-scanner/nutscan-init.c: Add #ifdef WIN32 for do_upsconf_args definition

2.2232 2012-03-09 Arnaud Quette <arnaud.quette@free.fr>

- docs/config-notes.txt: Emphasize special characters
- data/driver.list.in, drivers/tripplite-hid.c: HP USB UPS completion #1 Address HP USB/HID devices, that use the TrippLite HID definitions. This includes new ProductIDs, and few more variables and commands
- drivers/oneac.h: Remove extraneous comment start

2.2233 2012-03-08 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsclient.c, common/common.c, drivers/safenet.c, include/wincompat.h, server/conf.c: Clean up
- drivers/blazer_usb.c, drivers/libusb0.c, drivers/usbhid-ups.c: Add comments about EPROTO and EOVERFLOW
- server/upsd.c: typo in comments
- drivers/blazer_usb.c, drivers/libusb0.c, drivers/usbhid-ups.c, include/wincompat.h: Better handling of ETIMEDOUT
- common/parseconf.c, common/upsconf.c, docs/config-notes.txt: More flexible = character managment in conf files This allow to support the following forms : *foo = bar*, *foo=bar*, *foo =bar* and *foo= bar*

2.2234 2012-03-06 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/oneac.txt, drivers/oneac.c, drivers/oneac.h: Improve general OneAC support (oneac 0.80) Improve support for all families of Oneac (EG, ON, OZ and OB), including support for more data and instant commands (patch from Bill Elliot)

2.2235 2012-03-05 Arnaud Quette <arnaud.quette@free.fr>

- drivers/blazer.c, drivers/blazer_ser.c, drivers/blazer_usb.c: Guesstimate battery high and low voltages Add an automatic estimation for high and low voltages, to be able to determine battery charge. This should cover most cases, but a bold mention has been added at driver startup, to inform the user. Driver version (USB and serial) have been bumped to reflect this change
- drivers/blazer.c: Set *FSD* status flag upon need As per the recent decision to allow driver to set *FSD* status flag, set *FSD* upon "Shutdown imminent" detection

2.2236 2012-03-02 Arnaud Quette <arnaud.quette@free.fr>

- autogen.sh, scripts/augeas/Makefile.am: Sanity check before python script execution Only generate Augeas ups.conf lens if we can import required Python modules (re,glob,codecs)
- docs/man/blazer.txt: Fix typo error in runtimecal example values
- docs/stable-hcl.txt: Improve formating
- docs/new-drivers.txt: Formalize the use of the FSD status flag As an exception, drivers are now allowed to set the "FSD" (Forced ShutDown) status flag when an imminent shutdown has been detected

2.2237 2012-02-29 Charles Lepple <clepple+nut@gmail.com>

- scripts/python/module/PyNUT.py: Add support for LIST CLIENTS, etc. to PyNUT. Patch by Rene Martín Rodríguez <rmrodri@ull.edu.es>. Merged with typo fixes in repository. Covers LIST CLIENTS, FSD, HELP and VER. Module version bumped to 1.2.2. Discussion: http://article.gmane.org/gmane.comp.monitoring.nut.devel/5871
- server/netlist.c, server/upsd.c, server/upsd.h: Add new "LIST CLIENTS" command to NUT protocol. Patch by Rene Martín Rodríguez <rmrodri@ull.edu.es>, with indentation changed to tabs. Discussion: http://article.gmane.org/gmane.comp.monitoring.nut.5870
- drivers/blazer.c: Update URL to Megatec protocol description.

2.2238 2012-02-29 Arnaud Quette <arnaud.quette@free.fr>

- clients/upsc.c, docs/man/upsc.txt: Client side implementation of "LIST CLIENT" Implement "LIST CLIENT" in upsc, using "-c <device name>"
- docs/net-protocol.txt, server/netlist.c: Adjust server side implementation of "LIST CLIENT" Commands of the "LIST" family have to be coherent with the command name. Ie, "LIST CLIENT" should use the same "CLIENT" prefix, or it will otherwise break client side verification mechanism
- server/netlist.c: Adjust "LIST CLIENTS" implementation Adjust "LIST CLIENTS" implementation to be more coherent with other network protocol commands
- docs/net-protocol.txt: Document new "LIST CLIENTS" command
- server/upsd.c, server/upsd.h: Remove upsd "info" command Adjust initial "LIST CLIENTS" commit, by removing the upsd "info" command, which is not suitable, and redundant with the "LIST CLIENT" command of the network protocol [Fixed compilation error]

2.2239 2012-02-28 Arnaud Quette <arnaud.quette@free.fr>

- drivers/liebert-hid.c: UPower optimization Always spell manufacturer names the same way across the various USB drivers. This avoids duplication of manufacturer entries in scripts/upower/95-upower-hid.rules, during automatic generation

2.2240 2012-02-27 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/cps-hid.c: Add support for CyberPower OR700LCDRM1U Add CyberPower OR700LCDRM1U (0x0764:0x0601) to the list of usbhid-ups supported models (reported by Brian McCann)

2.2241 2012-02-22 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c: setvar_string() and apc_write_long() bugfixes setvar_string() couldn't function properly, due to the use of wrong variable. Not associated with any bugreport (reported directly to email).
- drivers/apcsmart.c: make tcsetattr()/tcgetattr() difference not fatal This is follow up from earlier bug report (#313395). Earlier commit should have fixed the issue, but the original submitter never commented on it. Just in case - instead of making it fatal, we only log the issue.

2.2242 2012-02-20 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c, tools/nut-scanner/scan_snmp.c: Better handling of Net-SNMP AES PrivProtocol Handle smartly issues related to Net-SNMP support and declaration of AES PrivProtocol

2.2243 2012-02-19 Charles Lepple <clepple+nut@gmail.com>

- drivers/snmp-ups.c, drivers/snmp-ups.h: Don't allocate storage for variables in snmp-ups.h The header files should declare variables as extern, and they should be allocated in only one .c file (not all of the files which include the .h file). While this is not an immediate problem when only one .c file includes the .h file, it still should be fixed in case that changes in the future. Patch by Daniel Macks: http://fink.cvs.sourceforge.net/viewvc/fink/experimental/dmacks/finkinfo/nut.patch?revision=1.1&view=markup
- drivers/bcmxcp.c, drivers/bcmxcp.h: Don't allocate storage for variables in bcmxcp.h The header files should declare variables as extern, and they should be allocated in only one .c file (not all of the files which include the .h file). This was causing multiple symbol definitions on Mac OS X. Patch by Daniel Macks: http://fink.cvs.sourceforge.net/viewvc/fink/experimental/-dmacks/finkinfo/nut.patch?revision=1.1&view=markup

2.2244 2012-02-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- configure.ac: Cleaner regex addtion por apcsmart driver (by Arnaud Quette)

2.2245 2012-02-16 Charles Lepple <clepple+nut@gmail.com>

- tools/git-svn.authors, tools/svn2cl.authors: Update SVN username mappings

2.2246 2012-02-16 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/blazer_usb.c: Add support for Online Yunto YQ450 Add Online Yunto YQ450 (0x06da:0x0002) to the list of blazer_usb supported models (reported by Thomas Maisl)

2.2247 2012-02-14 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add support for Tripp-Lite OMNISMART500 Add Tripp-Lite OMNISMART500 (productID 0001) to the list of tripplite_usb supported models (reported by Matt Schulte)

2.2248 2012-02-10 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Support for Dell UPS Network Management Card Add Dell UPS Network Management Card to the list of snmp-ups and netxml-ups supported models. SNMP support currently relies on IETF (RFC-1628) MIB, and not on Dell UPS MIB

2.2249 2012-02-09 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/blazer_usb.c, drivers/mge-mib.c, drivers/richcomm_usb.c, drivers/usb-common.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Merge from trunk: [SVN:3320] to [SVN:3435]
- tools/nut-scanner/scan_snmp.c: Remove useless lib_mutex and buggy dev_mutex

2.2250 2012-02-03 Arnaud Quette <arnaud.quette@free.fr>

- Makefile.am: Update ChangeLog generation and fix text wrapping Adapt the ChangeLog file generation process to correctly wrap text, even with the new *git style* format, used for Subversion commit messages

2.2251 2012-02-02 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bcmxcp.c, drivers/bcmxcp.h: Improve XCP support for battery status Add support for battery test publication in ups.test.result, and RB (replace battery) in ups.status

2.2252 2012-01-31 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bestfortress.c: Add more debug traces Add more debug traces, again, to work on the checksum corruption issue

2.2253 2012-01-23 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-mib.c: Clean and complete MGE MIB Complete MGE MIB for status, variables and commands, using IETF MIB OIDs when needed. Macro have also been replaced by actual numeric OID paths for better clarity.
- drivers/snmp-ups.c, drivers/snmp-ups.h: snmp-ups shutdown support snmp-ups now provides support for UPS shutdown, based on usbhid-ups mechanisms (composite commands and fallback). Composite commands are also supported. This means, for example, that if *shutdown.return* is not supported, a combination of *load.off* \+ *load.on* may be used.
- drivers/ietf-mib.c: Fix invalid variable name Beeper status belongs to the *ups* data collection
- drivers/snmp-ups.c: Check validity of instant commands before addition Prior to adding new instant commands, referenced OIDs are now checked for existance. This avoid adding commands that are not supported
- docs/man/upsmon.txt: Fix upsmon synopsis Add the missing *-K* (Test for the shutdown flag) to upsmon synopsis (reported by Regid Ichira)

2.2254 2012-01-20 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upscmd.c, clients/upsrw.c, common/wincompat.c, drivers/dstate.c, include/wincompat.h: Add getpwuid and getpass functions.

2.2255 2012-01-20 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Support for Riello Netman Plus 102 SNMP Card Add Riello Netman Plus 102 SNMP Card, and attached Sentinel SDL 6000-7 and Sentinel Dual SDH 1000-7 UPS, to the list of snmp-ups supported models (reported by Rainer Stumbaum)

2.2256 2012-01-19 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upslog.c, clients/upsmon.c, clients/upssched.c, common/wincompat.c, include/wincompat.h: Add filter_path function This allows blank characters both in data files name and command path
- scripts/Windows/wininit.c: Cleaner initialization of variables

2.2257 2012-01-19 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bestfortress.c: Add more debug traces, to work on the checksum corruption issue

2.2258 2012-01-18 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-names.txt, drivers/usbhid-ups.c: Adjust ups.start.auto value for shutdown commands When present, ups.start.auto value needs to be adjusted for shutdown.{return,stayoff} to behave as expected. This is limited to Eaton devices (reported by Rich Wrenn)

2.2259 2012-01-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c, include/wincompat.h: Fix commands with blank in their path
- clients/upssched.c, clients/upssched.h: Fix porting of upssched
- drivers/dstate.c: Remove useless code

2.2260 2012-01-11 Arnaud Quette <arnaud.quette@free.fr>

- UPGRADING: Cleanup garbage line Remove garbage line that was added by accident during the AsciiDoc branch merge or work
- tools/nut-scanner/Makefile.am, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/scan_nut.c: Move libupsclient to weak runtime dependencies libupsclient, as other libraries used by nut-scanner, is now a weak runtime dependency, through the use of lt_dl*() functions. This means that libupsclient is not anymore required, but only suggested. This should also solve the distcheck-light compilation on Aix (on behalf of Frédéric Bohe, from Eaton)

2.2261 2012-01-10 Michal Hlavinka <mhlavink@redhat.com>

- drivers/dstate.c: do not forget to check send_to_one return value send_to_one free()s connection, we can't use it after failure.
- drivers/bcmxcp.c: do not call getinfo twice, use returned value for parsing result was stored, but never used. Another dstate_getinfo call was used instead of stored value. Probably result of copy-paste.
- tools/nut-scanner/scan_xml_http.c: do not use unterminated string in strlen recvfrom returns raw data without null termination, this string can't be used in strlen. Use number of recieved bytes returned by recvfrom instead of strlen.
- clients/upssched.c: do not send garbage on retry because write and read commands shared one buffer, on retry we did not send command again, but last read data
- drivers/tripplite_usb.c: prevent buffer overflow in hexascdump haxascdump uses fixed size static buffer, but it had no checks to assure result can fit into that buffer.
- tools/nut-scanner/scan_nut.c: ups variable was allocated, but not free()d
- drivers/rhino.c, drivers/solis.c: use automatic time_t variable instead of allocated one time_t value is small enough to be automatic variable instead of allocated one. It eliminates risk we forget to free it again.
- drivers/bcmxcp.c: do not forget to free pTmp even if len is zero, pTmp should be freed

- drivers/mge-utalk.c: prevent null pointer dereference in strchr in some cases p can be null causing null pointer dereference of v (initialized to 0) in strchr command
- drivers/bcmxcp_usb.c: Fix condition in re-try loop making error checking unreachable for loop with condition retry ⇐ MAX_TRIES ends with retry = MAX_TRIES\+1. This breaks following error check with retry == MAX_TRIES condition, because it's true only in case when last retry actualy succeeded.

2.2262 2012-01-09 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bestups.c: Add the missing driver variable "battvoltmult" (patch from Sadara Kael)

2.2263 2012-01-06 Arnaud Quette <arnaud.quette@free.fr>

- drivers/snmp-ups.c: Reword the message when sysOID detection fails
- drivers/compaq-mib.c: Add the sysOID value, and bump the MIB version to 1.1 (reported by Jack Challen)
- docs/download.txt: Remove inline SHA-256 sum, and provide links to MD5 and SHA-256 sums

2.2264 2012-01-05 Frederic Bohe <fbohe-guest@alioth.debian.org>

- include/Makefile.am: Fix "make distcheck-light" (by Arnaud Quette)

2.2265 2012-01-05 Arnaud Quette <arnaud.quette@free.fr>

- server/netget.c: GET UPSDESC does not need device sanity checks (i.e. connected, with fresh data) to answer (reported by Emilien Kia, Alioth bug #313323)
- data/driver.list.in: Add Dynamix 1000VA USB to the list of blazer_usb supported models (requires "langid_fix=0x0409" in ups.conf; reported by Glen Ogilvie)

2.2266 2012-01-04 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt: Add the missing SHA-256 sum on the Download page / section (needs to be generated after the distribution package)
- docs/website/news.txt: Update 2.6.3 release date

2.2267 2012-01-03 Frederic Bohe <fbohe-guest@alioth.debian.org>

- docs/config-notes.txt: Add a note about file names with space characters in the documentation.
- tools/nut-scanner/nut-scanner.c: Fix nut scanner SNMP v3 help message.
- docs/man/nut-scanner.txt: Fix nut scanner SNMP v3 documentation.

2.2268 2012-01-03 Arnaud Quette <arnaud.quette@free.fr>

- NEWS, UPGRADING, configure.in, docs/website/news.txt: Final update for 2.6.3 release
- drivers/dummy-ups.c: Add a comment for further processing

2.2269 2011-12-30 Prachi Gandhi <prachi-guest@alioth.debian.org>

- configure.in, scripts/Solaris/Makefile.am, scripts/Solaris/checkinstall, scripts/Solaris/nut.in, scripts/Solaris/pkginfo.in, scripts/Solaris/postinstall.in, scripts/Solaris/postremove, scripts/Solaris/preinstall, scripts/Solaris/preremove.in, scripts/Solaris/prototype: Added Solaris Packaging scripts

2.2270 2011-12-17 Arnaud Quette <arnaud.quette@free.fr>

- drivers/blazer_usb.c: Actually apply the langid_fix value, ... when calling usb_get_string (reported by Charles Lepple)
- data/driver.list.in, docs/man/blazer.txt, drivers/blazer_usb.c: Try to fix language ID support for USB units from LDLC, Dynamix ... ... and no names in blazer_usb (reworked patch, from Brian R. Smith and Aurélien Grenotton)

2.2271 2011-12-16 Arnaud Quette <arnaud.quette@free.fr>

- scripts/HP-UX/.gitignore: Add the generated HP-UX packaging script (.psf) to the list of ignored files
- drivers/eaton-mib.c, drivers/snmp-ups.c: Fix newer Eaton ePDU OIDs declaration ordering, ... so that it better supports the various models (switched or advanced monitored)

2.2272 2011-12-15 Arnaud Quette <arnaud.quette@free.fr>

- clients/upsclient.c, drivers/belkinunv.c, drivers/etapro.c, drivers/gamatronic.c, drivers/isbmex.c, drivers/libshut.c, drivers/metasys.c, drivers/mge-shut.c, drivers/microdowell.c, drivers/nut-libfreeipmi.c, drivers/rhino.c, drivers/solis.c: Fix set but not used variables [-Wunused-but-set-variable] (including patch from Regid Ichira)

2.2273 2011-12-13 Arnaud Quette <arnaud.quette@free.fr>

- compile: Update compile script, as per the latest version available in Automake (1.11)
- docs/man/.gitignore: Add the generated nutscan_init.3 Groff manual page... ... to the list of ignored files
- tools/nut-scanner/Makefile.am, tools/nut-scanner/scan_ipmi.c: Add IPMI power supplies discovery to nut-scanner
- drivers/nut-libfreeipmi.c, m4/nut_check_libfreeipmi.m4: Separate IPMI requirements, between FRU lookup and monitoring. This way, we can at least compile nut-scanner with IPMI support and a limited (no monitoring) version of nut-ipmipsu, using older (pre 1.0.1) FreeIPMI versions

2.2274 2011-12-12 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/Makefile.am: Unconditional compile of scan_* source code... ... since now they contains the relevant stub function.
- tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Clean call to nutscan include files
- tools/nut-scanner/nutscan-init.c: Fix wrong variable name
- tools/nut-scanner/nut-scanner.c: Fix wrong call to nutscan_scan_avahi
- tools/nut-scanner/Makefile.am: Forgot to include nutscan-init.h in Makefile
- docs/man/Makefile.am, docs/man/nutscan_init.txt, docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan_nut.txt, docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt: Update documentation

- tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Make sure not to call any non-initialized function pointers.
- tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-init.c, tools/nut-scanner/nutscan-init.h, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Keep the same API whatever the library are at compile time... ...(so some scan functions may be stub only) Add an init function \+ variable to know the available scan method at run time. Update nut-scanner accordingly.

2.2275 2011-12-09 Charles Lepple <clepple+nut@gmail.com>

- autogen.sh: Force files to be overwritten (especially for libtool)

2.2276 2011-12-09 Arnaud Quette <arnaud.quette@free.fr>

- Makefile.am, configure.in, libltdl/COPYING.LIB, libltdl/Makefile.am, libltdl/Makefile.in, libltdl/Makefile.inc, libltdl/README, libltdl/aclocal.m4, libltdl/argz.c, libltdl/argz_.h, libltdl/config-h.in, libltdl/config/compile, libltdl/config/config.guess, libltdl/-config/config.sub, libltdl/config/depcomp, libltdl/config/edit-readme-alpha, libltdl/config/general.m4sh, libltdl/config/getopt.m4sh, libltdl/config/install-sh, libltdl/config/ltmain.m4sh, libltdl/config/ltmain.sh, libltdl/config/mdate-sh, libltdl/config/missing, libltdl/config/mkstamp, libltdl/config/texinfo.tex, libltdl/configure, libltdl/configure.ac, libltdl/libltdl/lt*alloc.h, libltdl/libltdl/lt*dirent.h, libltdl/libltdl/lt*glibc.h, libltdl/libltdl/lt*private.h, libltdl/libltdl/lt*strl.h, libltdl/libltdl/lt_dlloader.h, libltdl/libltdl/lt_error.h, libltdl/libltdl/lt_system.h, libltdl/libltdl/slist.h, libltdl/loaders/dld_link.c, libltdl/loaders/dlopen.c, libltdl/loaders/dyld.c, libltdl/loaders/load_add_on.c, libltdl/loaders/loadlibrary.c, libltdl/loaders/preopen.c, libltdl/loaders/shl_load.c, libltdl/lt*alloc.c, libltdl/lt*dirent.c, libltdl/lt*strl.c, libltdl/lt_dlloader.c, libltdl/lt_error.c, libltdl/ltdl.c, libltdl/ltdl.h, libltdl/m4/argz.m4, libltdl/m4/autobuild.m4, libltdl/m4/libtool.m4, libltdl/m4/ltdl.m4, libltdl/m4/ltoptions.m4, libltdl/m4/ltsugar.m4, libltdl/m4/ltversion.in, libltdl/m4/ltversion.m4, libltdl/m4/lt\~obsolete.m4, libltdl/slist.c, libltdl/stamp-mk, m4/nut_check_libltdl.m4, tools/nut-scanner/Makefile.am: Delete the bundled version of libltdl, ... and add detection and integration for the system provided version. nut-scanner build now depends on the existence of libltdl on the system
- autogen.sh: Revert commit [SVN:3344], ...since it causes problems with documentation build, due to INSTALL being overwritten

2.2277 2011-12-07 Frederic Bohe <fbohe-guest@alioth.debian.org>

- Makefile.am, configure.in, libltdl/COPYING.LIB, libltdl/Makefile.am, libltdl/Makefile.in, libltdl/Makefile.inc, libltdl/README, libltdl/aclocal.m4, libltdl/argz.c, libltdl/argz_.h, libltdl/config-h.in, libltdl/config/compile, libltdl/config/config.guess, libltdl/-config/config.sub, libltdl/config/depcomp, libltdl/config/edit-readme-alpha, libltdl/config/general.m4sh, libltdl/config/getopt.m4sh, libltdl/config/install-sh, libltdl/config/ltmain.m4sh, libltdl/config/ltmain.sh, libltdl/config/mdate-sh, libltdl/config/missing, libltdl/config/mkstamp, libltdl/config/texinfo.tex, libltdl/configure, libltdl/configure.ac, libltdl/libltdl/lt*alloc.h, libltdl/libltdl/lt*dirent.h, libltdl/libltdl/lt*glibc.h, libltdl/libltdl/lt*private.h, libltdl/libltdl/lt*strl.h, libltdl/libltdl/lt_dlloader.h, libltdl/libltdl/lt_error.h, libltdl/libltdl/lt_system.h, libltdl/libltdl/slist.h, libltdl/loaders/dld_link.c, libltdl/loaders/dlopen.c, libltdl/loaders/dyld.c, libltdl/loaders/load_add_on.c, libltdl/loaders/loadlibrary.c, libltdl/loaders/preopen.c, libltdl/loaders/shl_load.c, libltdl/lt*alloc.c, libltdl/lt*dirent.c, libltdl/lt*strl.c, libltdl/lt_dlloader.c, libltdl/lt_error.c, libltdl/ltdl.c, libltdl/ltdl.h, libltdl/m4/argz.m4, libltdl/m4/autobuild.m4, libltdl/m4/libtool.m4, libltdl/m4/ltdl.m4, libltdl/m4/ltoptions.m4, libltdl/m4/ltsugar.m4, libltdl/m4/ltversion.in, libltdl/m4/ltversion.m4, libltdl/m4/lt\~obsolete.m4, libltdl/slist.c, libltdl/stamp-mk, tools/nut-scanner/Makefile.am, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: First set of modification to include libltdl

2.2278 2011-12-05 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, docs/man/snmp-ups.txt, drivers/Makefile.am, drivers/cyberpower-mib.c, drivers/cyberpower-mib.h, drivers/snmp-ups.c: Add Cyber Power Systems with SNMP RMCARD (100, 201, 202 and 301) ... ...to the list of snmp-ups supported models (patch from Eric Schultz)
- drivers/snmp-ups.c: Remove the Eaton Marlin hook, for base outlet index ... ...since it has been fixed by a new firmware revision

2.2279 2011-11-29 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c: Fix blazer_ser driver (from Paul Fertser)
- common/wincompat.c: Don't leave one liner alone after if.

2.2280 2011-11-29 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-snmpinfo.py: Fix indentation and use open() instead of file(), to better support Python 3 (Alioth bug #313446, patch from Bohdan Popovych)

2.2281 2011-11-25 Arnaud Quette <arnaud.quette@free.fr>

- drivers/nut-ipmi.h: Fix wrong prototype declaration, that was causing a compilation warning (implicit declaration of function 'nut_ipmi_get_sensors_status')

2.2282 2011-11-24 Prachi Gandhi <prachi-guest@alioth.debian.org>

- Makefile.am, configure.in, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/Solaris/makelocal.sh, scripts/Solaris/pkginfo.in, scripts/Solaris/prototype: Reverted changes made for Solaris packaging files in [SVN:3326] ... added files in NUT_packaging branch
- Makefile.am, configure.in, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/Solaris/makelocal.sh, scripts/Solaris/pkginfo.in, scripts/Solaris/prototype: Solaris NUT package files added
- Makefile.am, configure.in, scripts/Makefile.am, scripts/Solaris/Makefile.am, scripts/Solaris/makelocal.sh, scripts/Solaris/pkginfo.in, scripts/Solaris/prototype: Solaris NUT package files added

2.2283 2011-11-24 Arnaud Quette <arnaud.quette@free.fr>

- scripts/Solaris/pkginfo.in: BASEDIR must also be adapted from configure settings
- scripts/Solaris/Makefile.am: Add missing dependencies, and distribution rules
- scripts/Makefile.am: There is no need to list Solaris/pkginfo.in there, ...since *Solaris* is listed in SUBDIRS, and *pkginfo.in* is listed in configure.in
- scripts/Solaris/Makefile.am: Remove makelocal.sh from check_SCRIPTS, ...since it is not meant to be run at "make check" time

2.2284 2011-11-15 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/Makefile.am, clients/upsclient.c, common/Makefile.am, common/wincompat.c, conf/upsmon.conf.sample.in, docs/Makefile.am, drivers/apc-mib.c, drivers/apcsmart-old.h, drivers/apcsmart.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/nut-ipmipsu.c, drivers/snmp-ups.c, server/Makefile.am, server/ssl.c, server/upsd.c, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: Merge from trunk [SVN:3060] to [SVN:3318]

2.2285 2011-11-15 Arnaud Quette <arnaud.quette@free.fr>

- drivers/blazer_usb.c, drivers/usb-common.h: Revert commit [SVN:2993] and [SVN:2994]. This enables again inclusion of buggy USB Device and Vendor IDs, supported by blazer_usb, in udev rules file (Reported by Stanislav Brabec, from Suse)
- tools/Makefile.am: Add missing comment

2.2286 2011-11-12 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-mib.c: Add upsmgBatteryLowCondition OID to the status mapping (reported by Kiss Gabor (Bitman))

2.2287 2011-11-11 Praveen Kumar <praveenkumar-guest@alioth.debian.org>

- scripts/HP-UX/makedepot.sh: script file to create package (depot) for HP-UX

2.2288 2011-11-08 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/web-layout.conf: Complete search keywords
- docs/website/web-layout.conf: Final fix for the displaying of the legend, to work on all browsers, ...while still being conforming to W3C validation

2.2289 2011-11-07 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/web-layout.conf: Fix displaying of the legend

2.2290 2011-11-05 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- docs/cables.txt, docs/man/apcsmart.txt: apcsmart.txt: minor documentation update Broken diagram link and 940-0024E cable mention (reported by Jonathan Laventhol).

2.2291 2011-11-05 Arnaud Quette <arnaud.quette@free.fr>

- conf/upsd.conf.sample, server/upsd.c: Don't fail to start if at least one of the listening interface is available. This is needed on systems where either IPv4 or IPv6 is disabled, and no explicit LISTEN directive has been specified (Reported by Pavel Zubkou, Debian bug #598741)

2.2292 2011-11-02 Praveen Kumar <praveenkumar-guest@alioth.debian.org>

- configure.in, scripts/HP-UX/nut.psf.in: Adding packaging script for HPUX

2.2293 2011-10-31 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt, docs/website/news.txt: Publish update jNut 0.2, along with the new jNutWebAPI (contributed by Emilien Kia, from Eaton)

2.2294 2011-10-28 Emilien Kia <kiae.dev@gmail.com>

- scripts/java/README, scripts/java/jNutWebAPI/README, scripts/java/jNutWebAPI/pom.xml, .../jnutwebapi/NutRestProvider.java ...
  .../jnutwebapi/RestWSApplication.java, .../jnutwebapi/ScannerProvider.java, .../jNutWebAPI/src/main/webapp/WEB-INF/web.xm
  Initial commit of jNutWebAPI.
- scripts/java/jNut/.gitignore, scripts/java/jNut/src/main/java/org/networkupstools/jnut/Scanner.java: Fix a little bug with function namming (get instead of set).

2.2295 2011-10-27 Arnaud Quette <arnaud.quette@free.fr>

- docs/maintainer-guide.txt: Create a basic NUT maintainer guide, ... to start tracking and improving maintenance workflow
- drivers/bcmxcp_usb.c: Handle disconnection issues and reconnection mechanism (bug reported by Rich Wrenn)

2.2296 2011-10-25 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c: minor correction Assigning 0 directly was wrong (actually, a leftover from earlier version of the code that was removed) - ser_set_speed() prepares the port initially, we only adjust certain options.

2.2297 2011-10-25 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_snmp.c: Add sanity checks
- tools/nut-scanner/scan_avahi.c: Remove unused variable

2.2298 2011-10-25 Emilien Kia <kiae.dev@gmail.com>

- .../test/java/org/networkupstools/jnut/ClientTest.java: Add licence information.
- scripts/java/jNut/README, scripts/java/jNut/pom.xml, .../java/org/networkupstools/jnut/Scanner.java, .../java/org/networkupstools/ Add nut-scanner.

2.2299 2011-10-24 Frederic Bohe <fbohe-guest@alioth.debian.org>

- docs/man/nut-scanner.txt, tools/nut-scanner/nut-scanner.c: Forgot to document "-q" option (thanks to Emilien Kia for reporting this)

2.2300 2011-10-21 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scanner.c: Trivial layout consistency
- docs/man/nut-scanner.txt: Update man page with -V and -a option
- tools/nut-scanner/nut-scanner.c: Add an option to display available bus (usefull for wrapper).
- tools/nut-scanner/nut-scanner.c: return -1 on bad command line option

2.2301 2011-10-19 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nutscan-ip.c: Fix crash on 32bits systems
- tools/nut-scanner/nut-scanner.c: Add a switch to display NUT version.

2.2302 2011-10-19 Charles Lepple <clepple+nut@gmail.com>

- docs/FAQ.txt: Add FAQ entry for LISTEN directive

2.2303 2011-10-18 Arnaud Quette <arnaud.quette@free.fr>

- drivers/eaton-mib.c: Fix outlets reported current, ... which were off by 100 in aphel_genesisII MIB, and bump MIB version to 0.46 (patch from Sven Nilsson)

2.2304 2011-10-14 Charles Lepple <clepple+nut@gmail.com>

- include/Makefile.am: nut_version.h: grab Git revision, if any

2.2305 2011-10-14 Arnaud Quette <arnaud.quette@free.fr>

- docs/Makefile.am, docs/images/nut-logo.png, docs/images/nut.svg, docs/website/Makefile.am, docs/website/css/web-layout.css, docs/website/faviconut.ico, docs/website/faviconut.png, docs/website/web-layout.conf: Add the new NUT logo (contributed by Luc Descotils, from Eaton)
- docs/website/web-layout.conf: Fix another W3C validator error (there is no attribute "language" anymore for <script> in XHTML 1.1)
- data/driver.list.in: Remove redundant entry, that probably causes a W3C validator error (end tag for "tr" which is not finished)
- tools/Makefile.am: Only generate static and JSON HCL if we can import json, ... simplejson and lxml Python modules
- docs/Makefile.am: Remove the user manual dependency on static HCL, which broke Buildbot
- configure.in, docs/Makefile.am, docs/download.txt, docs/website/Makefile.am: Automate generation of the version release information, in the Download section. This is a rewritten version of [SVN:3272], this time using Asciidoc mechanism instead of Autoconf
- Makefile.am, docs/Makefile.am, tools/Makefile.am, tools/nut-hclinfo.py: Add static HCL as a user manual dependency, along with the needed build rules

2.2306 2011-10-13 Frederic Bohe <fbohe-guest@alioth.debian.org>

- docs/man/nut-scanner.txt: Add examples to nut-scanner man page

2.2307 2011-10-13 Charles Lepple <clepple+nut@gmail.com>

- docs/man/nut-scanner.txt: nut-scanner.txt: spelling and style edits

2.2308 2011-10-13 Arnaud Quette <arnaud.quette@free.fr>

- docs/configure.txt: Add missing --with-avahi documentation
- docs/Makefile.am, docs/developer-guide.txt, tools/nut-scanner/.gitignore, tools/nut-scanner/README, tools/nut-scanner/nut-scan.h: Add a *NUT device discovery* chapter to the developer guide, ... to document libnutscan
- configure.in: Enable Avahi automatic support, upon detection
- docs/man/.gitignore, docs/man/Makefile.am, docs/man/index.txt, docs/man/nutscan.txt: Add an overview manpage for libnutscan
- configure.in, docs/Makefile.am, docs/{download.txt.in ⇒ download.txt}: Revert [SVN:3272], which breaks distribution check, ... while waiting for a suitable solution

2.2309 2011-10-12 Arnaud Quette <arnaud.quette@free.fr>

- docs/.gitignore: Mark download.txt as ignored, ... since it is now generated automatically (no functional changes)

2.2310 2011-10-11 Arnaud Quette <arnaud.quette@free.fr>

- configure.in, docs/Makefile.am, docs/{download.txt ⇒ download.txt.in}: Automate generation of the stable release information, in the Download section

2.2311 2011-10-10 Frederic Bohe <fbohe-guest@alioth.debian.org>

- docs/man/nut-scanner.txt, tools/nut-scanner/nut-scanner.c: Add CIDR option manual

2.2312 2011-10-10 Arnaud Quette <arnaud.quette@free.fr>

- drivers/nut-libfreeipmi.c, tools/nut-scanner/scan_avahi.c: Replace <time.h> inclusion by "timehead.h", as per NUT coding standard (Reported by Prachi Gandhi, from Eaton)
- scripts/upower/95-upower-hid.rules: Update upower script with Powercom entry
- docs/website/projects.txt: Advertise more the official Windows port, with regard to WinNUT
- Makefile.am: Force ChangeLog regeneration upon make dist, ...in case it has already been generated previously

2.2313 2011-10-06 Charles Lepple <clepple+nut@gmail.com>

- docs/support.txt: Reduce recommended debug level from 5 to 2 in Support page.

2.2314 2011-10-05 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/powercom-hid.c: Add Powercom BNT-xxxAP (productID 0004)... ...to the list of usbhid-ups supported models (reported by Virus, on Ubuntu Launchpad)

2.2315 2011-09-30 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add Belkin F6S600auUSB to the list of blazer_usb supported models (reported by Simon Dwyer)

2.2316 2011-09-26 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nutscan-ip.c: Remove AI_NUMERICSERV... ...since it's useless and produces compile error on some systems.
- tools/nut-scanner/nutscan-ip.h: Try to fix FreeBSD build

2.2317 2011-09-26 Arnaud Quette <arnaud.quette@free.fr>

- conf/upsd.conf.sample: Complete LISTEN information, with regard to IP v4 or v6 disabled kernel (reported by Pavel Zubkou, Debian bug #598741)
- clients/Makefile.am: Fix forgotten update of libupsclient version information (bump from 1:0:0 to 2:0:1)
- docs/man/bcmxcp.txt, docs/man/blazer.txt, docs/man/dummy-ups.txt: Fix spelling and typo errors (patch from Laurent Bigonville, Debian)
- tools/nut-scanner/scan_xml_http.c: Fix remaining compilation errors on FreeBSD, ...due to missing <netinet/in.h> header inclusion

2.2318 2011-09-23 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: Replace calls to inet_* functions by equivalent getaddrinfo and getnameinfo... ...for portability

2.2319 2011-09-23 Arnaud Quette <arnaud.quette@free.fr>

- docs/config-notes.txt: Add a note on nut-scanner availability
- docs/.gitignore: Mark some forgotten generated HTML files as ignored files (no functional changes)
- docs/Makefile.am, docs/developer-guide.txt, docs/new-clients.txt, lib/README: Complete lib/README and convert it to Asciidoc, ... as *Appendix B: NUT libraries complementary information*
- configure.in, docs/macros.txt, docs/man/Makefile.am, docs/website/Makefile.am, drivers/Makefile.am, m4/nut_check_libfreeipmi.m4, m4/nut_check_libwrap.m4, m4/nut_report_feature.m4, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c: Rework the whole HAVE_<FEATURE> versus WITH_<FEATURE> logic, ... which is not suitable anymore since nut-scanner. Previously, we only defined an automake variable (AM_CONDITIONAL) that allowed to compile coherent set of features (a specific driver, for example). With nut-scanner, we also need a pre-processor macro (AC_DEFINE) to manage code activation inside of a feature. The NUT_REPORT_FEATURE macro has been modified to handle all this logic

2.2320 2011-09-22 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scanner.c: Move a pthread variable to a #ifdef HAVE_PTHREAD section.

2.2321 2011-09-20 Arnaud Quette <arnaud.quette@free.fr>

- server/Makefile.am, server/netcmds.h, server/netget.c, server/netget.h, server/netinstcmd.c, server/netinstcmd.h, server/netlist.c, server/netlist.h, server/netmisc.c, server/netmisc.h, server/netset.c, server/netset.h, server/netuser.c, server/netuser.h, server/{ctype.h ⇒ nut_ctype.h}, server/ssl.c, server/ssl.h, server/upsd.c, server/upsd.h: Rename upsd internal client structure and header from ctype_t to nut_ctype_t. This avoids namespace conflict on AIX, and is more suitable in general

2.2322 2011-09-18 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/nutupsdrv.txt: Add the missing *-q* option (closes Alitoth patch #301145)
- tools/nut-scanner/Makefile.am: Distribute the needed headers for libnutscan
- configure.in, lib/.gitignore, lib/Makefile.am, lib/libnutscan.pc.in: Add pkg-config support for libnutscan
- common/Makefile.am: Remove extraneous space

2.2323 2011-09-17 Arnaud Quette <arnaud.quette@free.fr>

- docs/developer-guide.txt, docs/man/dummy-ups.txt: Complete device simulation and recording information
- docs/man/index.txt: Add nut-scanner and libnutscan entries to the manual pages index
- docs/man/.gitignore: Mark some more generated HTML files as ignored files (no functional changes)

2.2324 2011-09-15 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_nut.c: Conditional inclusion of pthread.h
- tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-display.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: config.h is included in common.h, so only include common.h
- include/parseconf.h: We need stdio.h because we use FILE type.

2.2325 2011-09-15 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt: Add the missing SHA-256 sum on the Download page / section (need to be generated after the distribution package)
- drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c: Don't override PSU absence with the power failure flag
- NEWS, UPGRADING, configure.in, docs/download.txt, docs/website/news.txt: Final update for 2.6.2 release
- docs/configure.txt: Complete the minimum FreeIPMI version required
- tools/nut-scanner/.gitignore: Mark remaining generated files as ignored files (no functional changes)
- docs/man/.gitignore: Mark remaining generated manual pages as ignored files (no functional changes)
- docs/man/nut-ipmipsu.txt, drivers/nut-ipmi.h, drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c, m4/nut_check_libfreeipmi.m4: Complete nut-ipmipsu, by adding sensors discovery and monitoring

2.2326 2011-09-14 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_snmp.c: Remove use of strndup. This is not supported on Solaris.
- tools/nut-scanner/nutscan-ip.c: Get rid of s6_addr32 in IPv6 code since it is implementation specific. Replaced by s6_addr. (thanks to Charles Lepple)

2.2327 2011-09-14 Emilien Kia <kiae.dev@gmail.com>

```
*
  scripts/java/jNut/src/main/java/org/networkupstools/jnut/Client.java,
  scripts/java/jNut/src/main/java/org/networkupstools/jnut/Command.java,
  scripts/java/jNut/src/main/java/org/networkupstools/jnut/Device.java,
  .../java/jNut/src/main/java/org/networkupstools/jnut/NutException.java,
  .../jNut/src/main/java/org/networkupstools/jnut/StringLineSocket.java,
  scripts/java/jNut/src/main/java/org/networkupstools/jnut/Variable.java:
  Fix mail address typo for javadoc.
```

2.2328 2011-09-14 Charles Lepple <clepple+nut@gmail.com>

- tools/nut-scanner/scan_snmp.c: Remove unbalanced #endif
- tools/nut-scanner/scan_snmp.c: nut-scanner: use "common.h", which includes "config.h"
- tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c: Include <string.h> for nut-scanner
- tools/nut-scanner/scan_snmp.c: Silence redefined PACKAGE_ macro warnings This should be fixed properly upstream, but in the mean time, the SNMP-based tools can't use these macros properly (since they will have the values for Net-SNMP, not NUT).

2.2329 2011-09-14 Arnaud Quette <arnaud.quette@free.fr>

- drivers/.gitignore: Mark apcsmart-old binary as ignored file (no functional changes)

2.2330 2011-09-13 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/Makefile.am: Fix make distcheck-light
- tools/nut-scanner/nutscan-ip.c: Do not use long long variable anymore
- tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_nut.c: Remove all calls to asprintf

2.2331 2011-09-13 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bcmxcp.c: Fix compilation warning on values comparison being always false
- configure.in, tools/nut-scanner/nut-scanner.c: Complete commit [SVN:3218], to address getopt_long too
- configure.in: Do a second check to ensure inclusion of getopt.h, in case optind is known
- drivers/bcmxcp.c, drivers/bcmxcp.h, drivers/bcmxcp_ser.c: Add support for outlet.n.delay.{start,shutdown}, ...and use outlet.n.delay.shutdown for outlet.n.shutdown.return instead of the default 3 seconds (patch from Rich Wrenn)

2.2332 2011-09-12 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/Makefile.am: apcsmart: minor Makefile.am change Add missing apcsmart_tabs.h
- drivers/apcsmart.c: apcsmart: limit comm-lost spam In upsdrv_updateinfo(), additional comm-lost messages were logged, potentially causing unnecessary spam in logs. As ser_comm_fail() and ser_comm_good() functions do so themselves (including rate limiting), we changed the superfluous info to debug level and also switched to upsdebugx().
- drivers/apcsmart.h: apcsmart: add \+ to APC_UNR_CMDS Only - is used, and only internally by the driver - no need to inform in logs about unrecognized command.
- docs/man/apcsmart.txt: apcsmart: minor updates to apcsmart man page

2.2333 2011-09-12 Frederic Bohe <fbohe-guest@alioth.debian.org>

- docs/FAQ.txt, docs/config-notes.txt, docs/download.txt, docs/man/Makefile.am, docs/man/apcsmart-old.txt, docs/man/apcsmart.txt, docs/stable-hcl.txt, docs/website/web-layout.conf, drivers/Makefile.am, drivers/apcsmart-old.c, drivers/apcsmart-old.h, drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c, drivers/apcsmart_tabs.h, drivers/eaton-mib.c, drivers/eaton-mib.h, drivers/snmp-ups.c: Merge with trunk from [SVN:3196]
- docs/man/Makefile.am, docs/man/nut-scanner.txt, docs/man/nutscan_add_device_to_device.txt, docs/man/nutscan_add_option_to_de docs/man/nutscan_cidr_to_ip.txt, docs/man/nutscan_display_parsable.txt, docs/man/nutscan_display_ups_conf.txt, docs/man/nutscan docs/man/nutscan_new_device.txt, docs/man/nutscan_scan_avahi.txt, docs/man/nutscan_scan_ipmi.txt, docs/man/nutscan_scan_nut.t docs/man/nutscan_scan_snmp.txt, docs/man/nutscan_scan_usb.txt, docs/man/nutscan_scan_xml_http.txt: Add man pages

2.2334 2011-09-12 Charles Lepple <clepple+nut@gmail.com>

- docs/FAQ.txt: Reword rewording in FAQ

2.2335 2011-09-09 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_snmp.c, tools/nut-snmpinfo.py: Use the SysOID registered in drivers's sources... ...to detect the favorite MIB for SNMP devices. Fall back to old method if no matching SysOID is found.

2.2336 2011-09-09 Arnaud Quette <arnaud.quette@free.fr>

- docs/FAQ.txt: Fix wording, that is not appropriate anymore
- docs/config-notes.txt: Complete shutdown information on the "critical UPS" notion
- docs/download.txt: Add missing comma for OpenWrt
- docs/stable-hcl.txt: Complete information for reporting new device
- drivers/eaton-mib.c, drivers/eaton-mib.h, drivers/snmp-ups.c: Add a missing Eaton MIB for PDU

2.2337 2011-09-08 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_avahi.c: Add a timeout to scan-avahi function

2.2338 2011-09-08 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt: Forgotten commit for the new updated Windows package
- docs/website/web-layout.conf: Fix XHTML 1.1 compliance (reported by W3C validators)
- .gitignore, configure.in, m4/nut_check_os.m4, scripts/Makefile.am, scripts/README, scripts/systemd/.gitignore, scripts/systemd/Makefile.am, scripts/systemd/README, scripts/systemd/nut-driver.service.in, scripts/systemd/nut-monitor.service.in, scripts/sy server.service.in, scripts/systemd/nutshutdown.in: Add initial support for systemd (patch from Michal Hlavinka)

2.2339 2011-09-06 Frederic Bohe <fbohe-guest@alioth.debian.org>

- configure.in, docs/download.txt, docs/new-clients.txt, docs/website/news.txt, docs/website/projects.txt, drivers/apc-mib.c, drivers/best mib.c, drivers/eaton-mib.c, drivers/ietf-mib.c, drivers/mge-hid.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/powerware-mib.c, drivers/raritan-pdu-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h, scripts/Makefile.am, scripts/README, scripts/java/-Makefile.am, scripts/java/README, scripts/java/jNut/README, scripts/java/jNut/pom.xml, . . . /main/java/org/networkupstools/jnut/ . . . /java/org/networkupstools/jnut/Command.java, . . . /main/java/org/networkupstools/jnut/Device.java, . . . /org/networkupstools/jnut/ . . . /org/networkupstools/jnut/StringLineSocket.java, . . . /java/org/networkupstools/jnut/Variable.java, . . . /java/org/networkupstools/jn scripts/java/jNutList/README, scripts/java/jNutList/pom.xml, . . . /java/org/networkupstools/jnutlist/AppList.java: Merge from trunk [SVN:3177]

2.2340 2011-09-06 Arnaud Quette <arnaud.quette@free.fr>

- drivers/apc-mib.c, drivers/bestpower-mib.c, drivers/eaton-mib.c, drivers/ietf-mib.c, drivers/mge-mib.c, drivers/netvision-mib.c, drivers/powerware-mib.c, drivers/raritan-pdu-mib.c, drivers/snmp-ups.c, drivers/snmp-ups.h: Add a new initialization method, that uses sysObjectID (indirection to the main MIB of the device) to detect supported devices. This speeds up even more init stage and should render void the use of *mib* option
- drivers/snmp-ups.c: Force numeric OIDs resolution, ie do not resolve to textual names. This is mostly for the convenience of debug output

2.2341 2011-09-05 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_ipmi.c: typo
- tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_xml_http.c: More conditional compilation fixes
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_ipmi.c: use HAVE_FREEIPMI_FREEIPMI_H instead of non existing WITH_IPMI
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_ipmi.c: Prepare IPMI integration. Fix conditional compilation
- tools/nut-scanner/scan_snmp.c: Fix no thread compilation
- tools/nut-scanner/nut-scanner.c: Raise default timeout from 1s to 5s. Use parallel scanning.

2.2342 2011-09-05 Arnaud Quette <arnaud.quette@free.fr>

- scripts/java/Makefile.am, . . . /java/org/networkupstools/jnuttest/AppTest.java: Remove test code, since it is bound to jNut and not jNutList (reported by Emilien Kia)
- drivers/mge-hid.c: Add support for battery.runtime.low, and end of battery life (life cycle monitoring) ; along with measurements (outlet power factor, power, real power and current) for 5 PX
- configure.in, scripts/Makefile.am, scripts/java/.gitignore, scripts/java/Makefile.am: Complete jNut automake integration (distribution rules)

2.2343 2011-09-03 Arnaud Quette <arnaud.quette@free.fr>

- docs/man/.gitignore: Mark nut-ipmipsu.html as ignored file (no functional changes)

2.2344 2011-09-02 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_snmp.c: Make sure SNMP strings are NULL terminated
- configure.in: Forgot to resolve a conflict with previous merge
- MAINTAINERS, NEWS, UPGRADING, clients/upssched.c, common/common.c, data/cmdvartab, data/driver.list.in, docs/FAQ.txt, docs/acknowledgements.txt, docs/configure.txt, docs/download.txt, docs/features.txt, docs/images/advanced.png, docs/images/bigbox.png, docs/images/bizarre.png, docs/images/simple.png, docs/man/Makefile.am, docs/man/blazer.txt, docs/man/nu ipmipsu.txt, docs/man/powercom.txt, docs/nut-names.txt, docs/stable-hcl.txt, docs/website/Makefile.am, docs/website/news.txt, docs/website/projects.txt, docs/website/web-layout.conf, drivers/Makefile.am, drivers/apcsmart.c, drivers/apcsmart.h, drivers/bcmxcp.c, drivers/bcmxcp_ser.c, drivers/bcmxcp_usb.c, drivers/bestfcom.c, drivers/blazer.c, drivers/blazer_usb.c, drivers/cpshid.c, drivers/dstate.c, drivers/libhid.c, drivers/liebert-esp2.c, drivers/liebert-hid.c, drivers/main.c, drivers/mge-hid.c, drivers/mgeutalk.c, drivers/microdowell.c, drivers/nut-ipmi.h, drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c, drivers/powercom.c, drivers/powercom.h, drivers/rhino.c, drivers/snmp-ups.c, drivers/solis.c, drivers/usb-common.c, drivers/usb-common.h, include/Makefile.am, lib/libupsclient-config.in, lib/libupsclient.pc.in, m4/ax_create_stdint_h.m4, m4/nut_check_libfreeipmi.m4, m4/nut_repo scripts/Makefile.am, scripts/augeas/README, scripts/avahi/nut.service.in, scripts/udev/Makefile.am, scripts/udev/README, scripts/udev/nut-ipmipsu.rules.in, scripts/upower/95-upower-hid.rules, server/netinstcmd.c, server/netlist.c, server/upsd.c, tools/gitsvn.authors, tools/nut-usbinfo.pl, tools/svn2cl.authors: Merge from rev [SVN:2911]

2.2345 2011-09-02 Emilien Kia <kiae.dev@gmail.com>

- scripts/java/README, scripts/java/jNut/README, scripts/java/jNut/pom.xml, . . . /main/java/org/networkupstools/jnut/Client.java, . . . /java/org/networkupstools/jnut/Command.java, . . . /main/java/org/networkupstools/jnut/Device.java, . . . /org/networkupstools/jnut/ . . . /org/networkupstools/jnut/StringLineSocket.java, . . . /java/org/networkupstools/jnut/Variable.java, . . . /java/org/networkupstools/jnu scripts/java/jNutList/README, scripts/java/jNutList/pom.xml, . . . /java/org/networkupstools/jnutlist/AppList.java, . . . /java/org/netwo Add jNut (NUT client in Java) to trunk.

2.2346 2011-09-02 Arnaud Quette <arnaud.quette@free.fr>

- docs/new-clients.txt: Fix jNut Asciidoc integration
- docs/download.txt, docs/new-clients.txt, docs/website/news.txt, scripts/README, scripts/java/README, scripts/java/jNut/READM scripts/java/jNutList/README: Integrate jNUT information in the developer guide, . . . along with news and download section
- docs/website/news.txt: Add the Beta NUT 2.6.1-1 package for Windows, and some news history (just intended for VCS history)
- docs/website/projects.txt: Formatting fixes
- drivers/main.c: Remove extraneous empty line

2.2347 2011-08-31 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_snmp.c: More API cleaning
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nutscan-ip.c, tools/nut-scanner/nutscan-ip.h, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c: Consolidating API
- configure.in, m4/nut_check_libavahi.m4, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_avahi.c: Add avahi scanning
- tools/nut-scanner/scan_nut.c: Make scan_nut reentrant

2.2348 2011-08-31 Emilien Kia <kiae.dev@gmail.com>

- drivers/usb-common.c: Fix pointer check on wrong variable (Patch from Thomas Jarosch)
- drivers/mge-utalk.c: Fix use of uninitialized variable (Patch from Thomas Jarosch)
- common/common.c: Fix file descriptor leak (Patch from Thomas Jarosch)

2.2349 2011-08-30 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c: apcsmart: revert back from custom serial functions to serial.c ones Following Arjen's suggestion, this patch reverts the apcsmart back to relying on serial.c functions for opening/closing and setting speed. For the reference: http://lists.alioth.debian.org/pipermail/nut-upsdev/2011-June/005491.html If it turns out that re-opening serial ports during normal driver activity is really necessary, it can be easily added to serial.c.
- drivers/apcsmart.c: Fix alignment of preprocessor directives

2.2350 2011-08-29 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nutscan-display.c: Make sure device names are unique for "nut.conf style" display
- tools/nut-scanner/nut-scanner.c: Add a "quiet" option

2.2351 2011-08-29 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-hid.c: Add region/country management, ...to improve features provided such as *output.voltage.nominal* and 3S Eco control
- data/driver.list.in, drivers/mge-hid.c: Add Eaton 3S to the list of usbhid-ups supported models

2.2352 2011-08-25 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-names.txt: Fix duplication

2.2353 2011-08-24 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-device.h, tools/nut-scanner/nutscan-display.c: Add parsable output

2.2354 2011-08-20 Charles Lepple <clepple+nut@gmail.com>

- m4/nut_report_feature.m4: Avoid implementation-specific use of "echo" in autoconf http://pubs.opengroup.org/onlinepubs/-009695399/utilities/echo.html

2.2355 2011-08-18 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_xml_http.c: Remove useless "" for desc

2.2356 2011-08-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/.gitignore, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/{device.c ⇒ nutscan-device.c}, tools/nut-scanner/{device.h ⇒ nutscan-device.h}, tools/nut-scanner/{display.c ⇒ nutscan-display.c}, tools/nut-scanner/{ip.c ⇒ nutscan-ip.c}, tools/nut-scanner/{ip.h ⇒ nutscan-ip.h}, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: More consistent API naming

2.2357 2011-08-11 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsmon.c: Correct handling of timeout

2.2358 2011-08-08 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/DriverInstaller/wdi-simple.c: Print an error message when driver's installation has failed.
- scripts/Windows/DriverInstaller/README.txt: Add some more hints on how to compile wdi-simple.exe
- drivers/serial.c: This seems to be the correct way to set and reset DTR and RTS with Win32 API
- scripts/Windows/Installer/NUT-Installer.xml: The stock msys-regex-1.dll is crashing. So now we bundle libregex-1.dll which is a binary compiled from sources

2.2359 2011-08-05 Charles Lepple <clepple+nut@gmail.com>

- configure.in: minor changes to output * Capitalized "UPS" * --with-drivers= : Only **build** specific drivers

2.2360 2011-07-30 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add Cyber Power Systems CP1000AVRLCD to the list of usbhid-ups supported models (reported by David C. Rankin)

2.2361 2011-07-28 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-usbinfo.pl: Proper fix to [SVN:3012], which satisfies both udev and upower

2.2362 2011-07-27 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-usbinfo.pl: Partially revert [SVN:3012]. It caused a udev regression, with several missing USB IDs (thanks to Pawel Sikora for uncovering it)
- scripts/augeas/README: Add a complete Python Augeas example code

2.2363 2011-07-26 Arnaud Quette <arnaud.quette@free.fr>

- configure.in, docs/man/nut-ipmipsu.txt, scripts/udev/.gitignore, scripts/udev/Makefile.am, scripts/udev/README, scripts/udev/nut-ipmipsu.rules.in: Add udev rules file and documentation for nut-ipmipsu
- m4/nut_check_libfreeipmi.m4: Improve detection of the needed functions
- data/driver.list.in: Add Orvaldi 750 / 900SP to the list of blazer_usb supported models (reported by Pawel Sikora)
- drivers/nut-ipmipsu.c: Fix missing comment closure, add a TODO list and remove unused variables

2.2364 2011-07-21 Charles Lepple <clepple+nut@gmail.com>

- tools/git-svn.authors: Added authors file for git-svn synchronization

2.2365 2011-07-19 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add POWEREX VI 1000 LED to the list of blazer_usb supported models (reported by Sergey Talchuk)

2.2366 2011-07-17 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add SVEN Power Pro\+ series (USB ID ffff:0000)... ...to the list of blazer_usb supported models (reported by Vlad)

2.2367 2011-07-16 Arnaud Quette <arnaud.quette@free.fr>

- configure.in: Fix --with-[free]ipmi configure option... ...so that it actually behave correctly in automatic detection mode

2.2368 2011-07-14 Arnaud Quette <arnaud.quette@free.fr>

- configure.in: Fix the typo that made its way into commit [SVN:3136], and broke configure
- configure.in, docs/configure.txt, docs/man/.gitignore, docs/man/Makefile.am, docs/man/nut-ipmipsu.txt, drivers/.gitignore, drivers/Makefile.am, drivers/nut-ipmi.h, drivers/nut-ipmipsu.c, drivers/nut-libfreeipmi.c, m4/nut_check_libfreeipmi.m4: First attempt to create a driver to monitor power supply units using IPMI. This preliminary version only reads FRU (Field Replace Unit) information, but not yet the sensor information (describing if the PSU is present and online), and includes base documentation (manpage and configure options). It currently supports GNU FreeIPMI, but uses an abstract IPMI implementation that will allow to use other IPMI toolkits

2.2369 2011-07-13 Arnaud Quette <arnaud.quette@free.fr>

- docs/configure.txt: Move several misplaced options to the right sections
- tools/Makefile.am: Finally fix both distribution and compilation rules, ...completing commit [SVN:3121]
- tools/nut-scanner/Makefile.am: Force building automatically generated files before any target
- drivers/bestfcom.c: Remove unused variables (patch from Regid Ichira, Debian bug #633756)

2.2370 2011-07-12 Arnaud Quette <arnaud.quette@free.fr>

- MAINTAINERS: Update the corporate mail address and some details

2.2371 2011-07-08 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/ip.c, tools/nut-scanner/ip.h, tools/nut-scanner/nut-scanner.c: Add an helper function to decode CIDR notation.

2.2372 2011-07-08 Charles Lepple <clepple+nut@gmail.com>

- docs/acknowledgements.txt: Fix typo in link on Acknowledgements page

2.2373 2011-07-07 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_snmp.c: Make sure the description string ends with a 0

2.2374 2011-07-07 Arnaud Quette <arnaud.quette@free.fr>

- docs/acknowledgements.txt: Move Arjen de Korte, NUT Senior lieutenant, to the Retired members section. Thanks for all his years of dedication to make NUT better

2.2375 2011-07-06 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scanner.c: help and CLI modified depending on what is available at compile time
- tools/nut-scanner/scan_nut.c: Remove redundant quote in scan_nut
- configure.in, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scanner.c: Conditional compilation of neon related code (thanks to Arnaud Quette)
- tools/nut-scanner/nut-scanner.c: Add switches to select the desired buses
- tools/nut-scanner/display.c, tools/nut-scanner/scan_snmp.c: Display everything as: varname<space>=<space>"value"

2.2376 2011-07-05 Arnaud Quette <arnaud.quette@free.fr>

- tools/Makefile.am, tools/nut-scanner/Makefile.am: Fix distribution and compilation rules, ...to suit general needs and nut-scanner specific requirements

2.2377 2011-07-04 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/BuildInstaller.bat, scripts/Windows/Installer/NUT-Installer.xml: Change from libgnurx-0.dll to msys-regex-1.dll for the sake of coherency (use only msys DLLs)
- scripts/Windows/DriverInstaller/wdi-simple.c: Add a notification to unplug and re-plug the device... ...so that Windows uses the newly installed driver.
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_nut.c: Add timeout to scan_nut
- tools/nut-scanner/scan_snmp.c: Remove unused variable
- clients/upsclient.c, clients/upsclient.h: Add upscli_tryconnect function which is upscli_connect function... ...with the control of the connect timeout.

2.2378 2011-07-01 Arjen de Korte <adkorte-guest@alioth.debian.org>

- MAINTAINERS: It's been fun, but I feel the time has come to say farewell. All the best...

2.2379 2011-06-30 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/common.c: Add the error message associated with GetLastError to the error string. This may be helpful for support.
- common/wincompat.c: Make sure serial functions set errno to an actual error code (which might not be the most relevant one, but it's better than nothing)
- drivers/libusb0.c: Make sure errno is set to an actual error code (thanks to David Bolen)
- drivers/usbhid-ups.c: Revert [SVN:3108]. Correct errno management should be enough
- clients/upsmon.c: Change timeout from seconds to milliseconds (from David Bolen)

2.2380 2011-06-29 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/usb-common.h, drivers/usbhid-ups.c: Add WIN32 specific error case for detecting disconnection
- drivers/dstate.c: Fix timeout being in seconds instead of milliseconds

2.2381 2011-06-29 Arnaud Quette <arnaud.quette@free.fr>

- configure.in, scripts/Makefile.am, scripts/avahi/.gitignore, scripts/avahi/nut.service.in: Add Avahi support for NUT mDNS publication, using a static service file
- tools/svn2cl.authors: Add missing committers, and reorder using the Project Member List: https://alioth.debian.org/project/-memberlist.php?group_id=30602

2.2382 2011-06-28 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: remove SER_D6, as it's implied by SER_{CS,CC} flags... ...and has no use otherwise
- drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c: apcsmart: fix conditions in instcmd(); use regex for format validation
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: fix apc_write_rep() and apc_write_long() behaviour - ...we can't assume that the command will succeed and keep sending the rest of the sequence
- drivers/apcsmart.c: apcsmart: comments, code shuffling
- drivers/apcsmart.c: apcsmart: minor changes
- drivers/apcsmart.c: apcsmart: *qco fix
- drivers/apcsmart.c: apcsmart: follow dev guide more closely
- drivers/apcsmart.c: apcsmart: add parameter to smartmode()
- docs/man/apcsmart.txt: apcsmart: manpage update
- drivers/apcsmart.c: apcsmart: apc_read() adjustment
- drivers/apcsmart.c: apcsmart: use slightly adjusted older smartmode() version
- drivers/apcsmart.c: apcsmart: apc_flush() fix
- drivers/apcsmart.c: apcsmart: remove some of the old commented out sections
- drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c: apcsmart: trivial changes
- drivers/apcsmart.c: apcsmart: add a few apc_flush() calls

- drivers/apcsmart.c: apcsmart: sanitize sdtype (and other vars) in upsdrv_initups()
- drivers/apcsmart.c: apcsmart: update oldapcsetup()
- drivers/apcsmart.c: apcsmart: allow \^Z to timeout
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: update detection code, add command set regex
- drivers/apcsmart.c: apcsmart: sdcmd_AT() fix
- drivers/apcsmart.c: apcsmart: add regex matching of variable result to verify, ...if it actually makes sense
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: add typical buffer length defines
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: change how SER_* flags are handled
- drivers/apcsmart.c: apcsmart: trivial changes
- drivers/apcsmart.c: apcsmart: rename wugrace → awd
- drivers/apcsmart.c: apcsmart: bugfixes
- drivers/apcsmart.c, drivers/apcsmart_tabs.c, drivers/apcsmart_tabs.h: apcsmart: updates to instand commands (inc. shutdown commands), ...enabled handling of ext paramater for subcommands
- drivers/apcsmart.c: apcsmart: apc_ser_tear() fixup
- drivers/apcsmart.c: apcsmart: small sdcmd_Z() fix
- drivers/Makefile.am, drivers/apcsmart.c, drivers/apcsmart.h, drivers/apcsmart_tabs.c, drivers/apcsmart_tabs.h: apcsmart: cleanups, split into two files
- drivers/apcsmart.c: apcsmart: next changes to instcmd stuff
- drivers/apcsmart.c: apcsmart: simplify query_ups()
- drivers/apcsmart.c: apcsmart: add apc_write_rep() and apc_write_long(), ...initial changes to instcmd stuff
- drivers/apcsmart.c: apcsmart: allow tearing down/setting up serial connection... ...during normal activity; changes should fix #535583 as well
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: trivial changes
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: enable icanon
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: handle 1:n vars (nut:apc) variables, ...so we don't need tricks such as ups.firmware.old
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: reintroduce ignored set in protocol_verify()... ...for not exposed cmds/vars (⇒ a bit more quiet logs)
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: introduce icanon upsread() and upsflush() (functions will be used after *icanon* commit)
- drivers/apcsmart.h: apcsmart: add quick reference about alerts and to-be-removed defines. Introduce SER_* defines what will be used in new functions.
- drivers/apcsmart.h: apcsmart: add command @ to compatibility tables.
- drivers/apcsmart.c, drivers/apcsmart.h: apcsmart: trivial changes
- drivers/apcsmart.c: apcsmart: fix convert_data()... ...we can't assume that argument passed is global or static, so we can't just return it as is

2.2383 2011-06-28 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add various models equipped with APC AP9618 management card, ...including APC Smart-UPS RT XL, to the list of snmp-ups supported models (reported by Angela Williams)

2.2384 2011-06-27 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/device.h, tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_snmp.c: Add NUT server scan.

2.2385 2011-06-24 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/main.c: Merge from trunk [SVN:3002] to [SVN:3057]
- drivers/bcmxcp_usb.c: Correct configuration value for usb_set_configuration

2.2386 2011-06-22 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/Makefile.am: Fix "make distcheck-light"
- tools/nut-scanner/scan_snmp.c: Correct way to fix snmp device name (by Arjen de Korte)

2.2387 2011-06-21 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_xml_http.c: Use NUT const
- tools/nut-scanner/ip.c, tools/nut-scanner/ip.h: Forgot to commit the new files for iterator
- tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scan.h, tools/nut-scanner/scan_snmp.c: Factorize IP iterator
- tools/nut-scanner/Makefile.am: Remove unneeded reference to *.h files
- tools/Makefile.am, tools/nut-scanner/nutscan-snmp.h, tools/nut-snmpinfo.py: Add python script to generate nutscan-snmp.h at "make dist" time
- tools/nut-scanner/scan_snmp.c: End of snmp device name fix started in previous commit ... ...([SVN:3048] was commited too early on my mistake).
- tools/nut-scanner/nutscan-snmp.h, tools/nut-scanner/scan_snmp.c: [Commit comment was empty.]

2.2388 2011-06-17 Arjen de Korte <adkorte-guest@alioth.debian.org>

- docs/man/blazer.txt, drivers/blazer.c: Add preselection of communication protocol used

2.2389 2011-06-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_xml_http.c: Add "desc" option to xml_http devices
- drivers/snmp-ups.c: Fix SNMP v3 session initialisation
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_snmp.c: Add SNMP v3

2.2390 2011-06-15 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_snmp.c: Add "community" switch for SNMP v1
- tools/nut-scanner/scan_snmp.c: Add IPv6 to SNMP scan
- configure.in: Detecting pthread availability (by Arnaud Quette)

2.2391 2011-06-14 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_snmp.c: Add threads optimisation to SNMP
- tools/nut-scanner/nut-scanner.c: Update command line help
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/nutscan-snmp.h, tools/nut-scanner/scan_snmp.c: Add SNMP IPv4 discovery

2.2392 2011-06-08 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/nut-scanner.c: Adding command line parameters managment

2.2393 2011-06-08 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/web-layout.conf: Update the Firefox download button, since the previous one has disappeared
- docs/website/news.txt, docs/website/projects.txt: Add a news entry, and a reference in the Related projects, ...on Dell PowerVault NX3500, which uses NUT for power protection (approved by Dell)

2.2394 2011-06-07 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_xml_http.c: Clean up \+ check 80 column wide
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_xml_http.c: Timeout is passed in argument to scan_xml_http
- tools/nut-scanner/nut-scan.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_xml_http.c: Enable XML/HTTP scanning
- tools/nut-scanner/scan_usb.c: Use the add_device_to_device function
- tools/nut-scanner/device.c, tools/nut-scanner/device.h: Add a function to join two device

2.2395 2011-06-06 Frederic Bohe <fbohe-guest@alioth.debian.org>

- tools/nut-scanner/device.c, tools/nut-scanner/device.h, tools/nut-scanner/display.c, tools/nut-scanner/scan_usb.c, tools/nut-scanner/sca More flexible way to manage optional parameter of each devices... ...via a simple linked list
- tools/nut-scanner/display.h, tools/nut-scanner/{scan_usb.h ⇒ nut-scan.h}, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_ava tools/nut-scanner/scan_ipmi.h, tools/nut-scanner/scan_nut.h, tools/nut-scanner/scan_snmp.h, tools/nut-scanner/scan_xml_http.h: Keep only one file for nut-scan library interface
- tools/nut-scanner/display.h: typo

2.2396 2011-06-04 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add PowerWalker VI 850 LCD to the list of blazer_usb supported models (reported by Wayne Thomas)

2.2397 2011-06-03 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/Makefile.am, tools/nut-scanner/device.c, tools/nut-scanner/device.h, tools/nut-scanner/display.c, tools/nut-scanner/display.h, tools/nut-scanner/nut-scanner.c, tools/nut-scanner/scan_avahi.c, tools/nut-scanner/scan_avahi.h, tools/nut-scanner/scan_ipmi.c, tools/nut-scanner/scan_ipmi.h, tools/nut-scanner/scan_nut.c, tools/nut-scanner/scan_nut.h, tools/nut-scanner/sca tools/nut-scanner/scan_snmp.h, tools/nut-scanner/scan_usb.c, tools/nut-scanner/scan_usb.h, tools/nut-scanner/scan_xml_http.c, tools/nut-scanner/scan_xml_http.h: Preliminary nut-scanner architecture (on behalf of Fred Bohe, Eaton)

2.2398 2011-06-01 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt: Add the missing SHA-256 sum on the Download page / section
- NEWS, UPGRADING, configure.in, docs/download.txt, docs/website/news.txt: Final update for 2.6.1 release
- docs/configure.txt: Update *--with-all* option documentation
- configure.in: HAL deprecation (continued): HAL support is not enabled anymore when using *--with-all* configure option
- drivers/mge-hid.c: Add support for *battery.runtime.low*
- data/cmdvartab: Add the missing entry for *ups.efficiency*
- data/driver.list.in: Add Vivaldi EA200 LED to the list of richcomm_usb supported models (reported by Sergey Talchuk)
- drivers/mge-hid.c: Add *ups.efficiency* data, supported by Eaton 5 PX

2.2399 2011-05-31 Arnaud Quette <arnaud.quette@free.fr>

- docs/nut-names.txt: Documentation the new *ups.efficiency* NUT variable
- data/driver.list.in: Add Eaton 5 PX... ...to the list of usbhid-ups, mge-shut and newmge-shut supported models
- scripts/upower/95-upower-hid.rules: Update UPower script with Phoenixtec fix
- tools/nut-usbinfo.pl: Do not overwrite manufacturer names with empty values
- drivers/liebert-hid.c: Fix USB VendorID 0x06da, which is Phoenixtec, not Liebert
- docs/download.txt: Update Subversion access information, following Alioth update
- docs/download.txt, docs/website/news.txt: Add the Windows Beta package information

2.2400 2011-05-27 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scanner.c: Add build rules for libnut-scan library, and some more comments

2.2401 2011-05-27 Arjen de Korte <adkorte-guest@alioth.debian.org>

- scripts/upower/95-upower-hid.rules: Update upower script with Powerware entry
- drivers/blazer.c: Don't log status read failures until MAXTRIES subsequent failures. Occasional communication errors are common for these devices and are not a concern.

2.2402 2011-05-26 Arnaud Quette <arnaud.quette@free.fr>

- drivers/bcmxcp.c, drivers/bcmxcp_ser.c: Improve bcmxcp support for older PowerWare 9315 (patch from Chris Adams)

2.2403 2011-05-25 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/DriverInstaller/README.txt, scripts/Windows/DriverInstaller/nutscan-usb.h, scripts/Windows/DriverInstaller/wdi-simple.c, scripts/Windows/Installer/BuildInstaller.bat, scripts/Windows/Installer/NUT-Installer.xml, scripts/Windows/Makefile.am, scripts/Windows/wininit.c: Converting some files to Unix-style line endings
- drivers/blazer_usb.c, drivers/usb-common.h: merge from trunk [SVN:2990] to [SVN:2997]

2.2404 2011-05-25 Arnaud Quette <arnaud.quette@free.fr>

- m4/nut_type_socklen_t.m4: Fix Winsock2 testing and result publication
- server/netinstcmd.c: Fix the missing *extra value* handling for instant commands

2.2405 2011-05-24 Michal Soltys <msoltyspl-guest@alioth.debian.org>

- drivers/apcsmart.c: apcmsart.c: fix upsdrv_shutdown_advanced() - . . . with *continue* statement, sdcmd_*s ignoring *n* weren't called.

2.2406 2011-05-24 Frederic Bohe <fbohe-guest@alioth.debian.org>

- m4/nut_check_socketlib.m4: convert end of line to unix style
- scripts/Windows/Installer/NUT-Installer.xml: Add files in the project's root (README, INSTALL. . .)
- m4/nut_check_socketlib.m4: nut_check_socketlib.m4 has been removed from trunk, . . . but Win32 still needs it for winsock

2.2407 2011-05-23 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/NUT-Installer.xml: Remove useless empty directories

2.2408 2011-05-20 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/Makefile.am, m4/nut_check_libusb.m4: This doesn't make it through the previous merge from trunk

2.2409 2011-05-20 Arnaud Quette <arnaud.quette@free.fr>

- drivers/blazer_usb.c, drivers/usb-common.h: Don't use the USB_DEVICE() declaration macro with non compliant identifiers, ... such as blazer_usb' krauler subdriver

2.2410 2011-05-20 Arjen de Korte <adkorte-guest@alioth.debian.org>

- drivers/blazer_usb.c: Don't use the USB_DEVICE() declaration macro with non compliant identifiers, ... such as blazer_usb' krauler subdriver (missing from previous commit)

2.2411 2011-05-19 Arnaud Quette <arnaud.quette@free.fr>

- server/netlist.c: State explicitely when device description is not available, ... to avoid user confusion (reported by Noel David Torres Taño, Debian bug #595773
- docs/man/powercom.txt, drivers/powercom.c: Improve formating and wording of the powercom documentation, ... manual page and driver messages (patch from Keven L. Ates)

2.2412 2011-05-17 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/DriverInstaller/README.txt, scripts/Windows/DriverInstaller/nutscan-usb.h, scripts/Windows/DriverInstaller/wdi-simple.c: Add source files and a note on how to compile the automatic driver installer.
- scripts/Windows/Installer/NUT-Installer.xml: Add a check box for launching the automatic libUSB drivers installation
- conf/upsmon.conf.sample.in: Add hints to configure SHUTDOWNCMD and POWERDOWNFLAG

2.2413 2011-05-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/NUT-Installer.xml: [Installer] Include documentation in HTML format

2.2414 2011-05-13 Arnaud Quette <arnaud.quette@free.fr>

- drivers/powercom.c, drivers/powercom.h: Improve PowerCom BNT 1500A and BNT-other support, ...and bump driver version to 0.13 (patch from Keven L. Ates)

2.2415 2011-05-11 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsmon.c: forgot to change wait duration.
- clients/upsmon.c, clients/upsmon.h, common/wincompat.c, include/common.h, include/wincompat.h, scripts/Windows/wininit.c, server/upsd.c, server/upsd.h: Using named pipe for a better port of signals.

2.2416 2011-05-03 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/wininit.c: Add a call to "upsdrvctl shutdown" if POWERDOWNFLAG is set when service exits.

2.2417 2011-05-02 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsmon.c: Makes the call to "wall" function non blocking,
  i. ...or else the automatic power-fail shutdown is blocked waiting for the MessageBox to be clicked.

2.2418 2011-04-30 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Complete Informer Compact supported VA ratings (reported by Dushan Tcholich)

2.2419 2011-04-27 Arnaud Quette <arnaud.quette@free.fr>

- docs/website/Makefile.am: Enable website quirks to address Internet Explorer 6, ...which were missing since 2.6.0 publication
- docs/website/web-layout.conf: Complete meta keywords, and enable meta name and keywords on all pages
- data/driver.list.in: Add Numeric 3000 SW to the list of blazer_ser supported models (reported by Petr Kubánek)

2.2420 2011-04-26 Arjen de Korte <adkorte-guest@alioth.debian.org>

- data/driver.list.in, drivers/blazer_usb.c: Add support for GE EP series [http://lists.alioth.debian.org/pipermail/nut-upsuser/-2011-April/006788.html]

2.2421 2011-04-19 Arnaud Quette <arnaud.quette@free.fr>

- tools/nut-scanner/nut-scanner.c: Flush remaining comments for this proof-of-concept

2.2422 2011-04-18 Arnaud Quette <arnaud.quette@free.fr>

- drivers/libhid.c: Smarter solution for [SVN:2972] (pointed by Arjen de Korte)
- drivers/libhid.c: Trim extraneous end-of-line in buggy HID string tables, ...which results in upsc breaking the communication pipe (Ubuntu bug #753661)

2.2423 2011-04-15 Arnaud Quette <arnaud.quette@free.fr>

- docs/stable-hcl.txt: Detail existing guidelines for reporting new device entry
- docs/features.txt: Refreshed graphic illustrations credits
- docs/images/advanced.png, docs/images/bigbox.png, docs/images/bizarre.png, docs/images/simple.png: Refreshed graphic illustrations (provided by Eaton)

2.2424 2011-04-07 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/NUT-Installer.xml: Update NUT version (by Praveen Kumar)
- scripts/Windows/wininit.c: More generic wrong MODE handling \+ log same message as Linux version.

2.2425 2011-04-06 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/upsdrvctl.c: fix "upsdrvctl shutdown" command
- scripts/Windows/wininit.c: NUT is automatically started during system startup

2.2426 2011-04-01 Arjen de Korte <adkorte-guest@alioth.debian.org>

- data/driver.list.in: Add Inform Sinus SS 210 to list of supported devices [http://lists.alioth.debian.org/pipermail/nut-upsuser/-2011-March/006767.html]
- drivers/cps-hid.c: Clamp reported battery charge to 100% (seems to report AbsoluteStateOfCharge instead of RemainingCapacity) [http://lists.alioth.debian.org/pipermail/nut-upsuser/2011-March/006770.html]

2.2427 2011-03-31 Frederic Bohe <fbohe-guest@alioth.debian.org>

- data/driver.list.in, drivers/mge-hid.c: Add Eaton Powerware 9140 to the list of usbhid-ups supported models

2.2428 2011-03-29 Arnaud Quette <arnaud.quette@free.fr>

- lib/libupsclient-config.in, lib/libupsclient.pc.in: Fix remaining references to LIBSSL_LDFLAGS, ...instead of LIBSSL_LIBS, which cause unresolved symbol on libupsclient users (reported by Fabrice Coutadeur on Ubuntu)

2.2429 2011-03-29 Arjen de Korte <adkorte-guest@alioth.debian.org>

- drivers/blazer.c, drivers/blazer_usb.c: Make the terminating \r in the Q1 reply optional

2.2430 2011-03-28 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/apcsmart.c, drivers/dstate.c, include/nut_stdint.h: Merge with trunk

2.2431 2011-03-23 Frederic Bohe <fbohe-guest@alioth.debian.org>

- INSTALL.nut: Add information on installation
- INSTALL: Reverting previous commit (should not be in the trunk)
- INSTALL: Add information about installing Windows

2.2432 2011-03-22 Praveen Kumar <praveenkumar-guest@alioth.debian.org>

- .../Installer/ImageFiles/Binary/bannrbmp.ibd, .../Windows/Installer/ImageFiles/Binary/dlgbmp.ibd, .../ImageFiles/Images/NUT_w .../ImageFiles/Images/NUT_wix_vertical.bmp, .../Installer/ImageFiles/Others/DeRegister.bat, .../ImageFiles/{Binary/New.ibd ⇒ icons/New.ico}, .../ImageFiles/{Binary/Up.ibd ⇒ icons/Up.ico}, .../{Binary/completi.ibd ⇒ icons/completi.ico}, .../{Binary/cu ⇒ icons/custicon.ico}, .../{Binary/exclamic.ibd ⇒ icons/exclamic.ico}, .../ImageFiles/{Binary/info.ibd ⇒ icons/info.ico}, .../{Binary/insticon.ibd ⇒ icons/insticon.ico}, .../{Binary/removico.ibd ⇒ icons/removico.ico}, .../{Binary/repairic.ibd ⇒ icons/repairic.ico}, .../Installer/ImageFiles/libusb/libusb_win32.exe, scripts/Windows/Installer/NUT-Installer.xml: Removed binary files (DLL & ibd) and Updated with icons and .bmp images... ...for NUT windows Installer.

2.2433 2011-03-22 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/NUT-Installer.xml: commit again a small typo
- .../ImageFiles/Images/NUT_wix_horizontal.bmp, .../ImageFiles/Images/NUT_wix_vertical.bmp: Correctly sized banner for Windows installer

2.2434 2011-03-18 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/NUT-Installer.xml: Remove regex2.dll dependency.
- scripts/Windows/Installer/BuildInstaller.bat: MinGW bin directory and MSYS bin directory are now configurable
- scripts/Windows/Installer/BuildInstaller.bat, .../Installer/ImageFiles/Others/libgnurx-0.dll, .../Windows/Installer/ImageFiles/Others/ 1.0.dll, .../Installer/ImageFiles/Others/msys-crypto-1.0.0.dll, .../Installer/ImageFiles/Others/msys-ssl-1.0.0.dll, .../Windows/Installe Remove DLL from the SVN repository. They are now gathered from the build system when creating the installer .
- scripts/Windows/Installer/NUT-Installer.xml: small typo

2.2435 2011-03-18 Arjen de Korte <adkorte-guest@alioth.debian.org>

- include/Makefile.am: The include/nut_stdint.h file is no longer a generated one (part two)
- include/Makefile.am: The include/nut_stdint.h file is no longer a generated one
- configure.in, include/.gitignore, include/nut_stdint.h, m4/ax_create_stdint_h.m4: Clean up fixed width integer types. All C99 capable systems have <inttypes.h>, which shall include <stdint.h>.
- drivers/solis.c: Fix typo in previous commit
- drivers/solis.c: Fix compilation warning (no functional change)
- data/driver.list.in: Update driver list for SVEN Power Pro\+ series (recent models ship with a different USB to serial implementation)
- clients/upssched.c, configure.in, drivers/dstate.c, server/upsd.c: The third argument to accept is an int on HPUX... ...if _XOPEN_SOURCE_EXTENDED is not defined (reverting previous commit)
- configure.in: Quick check to see if defining *-munix=95* on HPUX... ...fixes a problem with the accept() call

2.2436 2011-03-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Installer/BuildInstaller.bat, . . . /Windows/Installer/ImageFiles/Binary/New.ibd, scripts/Windows/Installer/ImageFiles/Binary/Up.ibd, . . . /Installer/ImageFiles/Binary/bannrbmp.ibd, . . . /Installer/ImageFiles/Binary/completi.ibd, . . . /Installer/Ima . . . /Windows/Installer/ImageFiles/Binary/dlgbmp.ibd, . . . /Installer/ImageFiles/Binary/exclamic.ibd, . . . /Windows/Installer/ImageFile . . . /Installer/ImageFiles/Binary/insticon.ibd, . . . /Installer/ImageFiles/Binary/removico.ibd, . . . /Installer/ImageFiles/Binary/repairic.ib . . . /Installer/ImageFiles/Others/DeRegister.bat, . . . /Installer/ImageFiles/Others/StartService.bat, . . . /Installer/ImageFiles/Others/Stop . . . /Installer/ImageFiles/Others/libgnurx-0.dll, . . . /Installer/ImageFiles/Others/msys-1.0.dll, . . . /ImageFiles/Others/msys-crypto-1.0.0.dll, . . . /Installer/ImageFiles/Others/msys-ssl-1.0.0.dll, . . . /Windows/Installer/ImageFiles/Others/regex2.dll, . . . /Installer/ImageF bin/temp.txt, . . . /Installer/ImageFiles/emptyDir/html/temp.txt, . . . /Installer/ImageFiles/emptyDir/include/temp.txt, . . . /Installer/Image . . . /Installer/ImageFiles/emptyDir/man3/temp.txt, . . . /ImageFiles/emptyDir/pkgconfig/temp.txt, . . . /Installer/ImageFiles/emptyDir/ru . . . /Installer/ImageFiles/icons/powernut_Stop.ico, . . . /Installer/ImageFiles/icons/powernut_logo.ico, . . . /Installer/ImageFiles/libusb/li scripts/Windows/Installer/NUT-Installer.xml: Windows scripts and support files for NUT Windows installer using WIX (from Praveen Kumar)
- scripts/Windows/wininit.c: Handle properly the "none" MODE in nut.conf
- scripts/Windows/wininit.c: Fix a crash if configuration files are wrong in non-service mode
- scripts/Windows/wininit.c: Add some console output when running in non-service mode

2.2437 2011-03-15 Chetan Agarwal <chetanagarwal-guest@alioth.debian.org>

- drivers/rhino.c: Fix compilation error (no functional change)
- drivers/rhino.c: Fix missing comment closure from previous commit (no functional change)
- drivers/bcmxcp_usb.c, drivers/microdowell.c, drivers/rhino.c, drivers/solis.c: Fix remaining C+\+ style comments, to conform to the NUT coding rules (no functional change) on behalf of Prachi Gandhi (prachisgandhi@eaton.com)

2.2438 2011-03-14 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add IPAR Mini Energy ME 800 to the list of blazer_usb supported models

2.2439 2011-03-14 Arjen de Korte <adkorte-guest@alioth.debian.org>

- configure.in: Quick check to see if defining _REENTRANT on HPUX fixes a compilation warning

2.2440 2011-03-06 Arjen de Korte <adkorte-guest@alioth.debian.org>

- drivers/apcsmart.c: Fix another compilation warning. Some compilers (rightfully) claim that the value of *n* may be used without initialization. Until this is resolved, skip over this if the value isn't set.
- drivers/apcsmart.c: Fix compilation warning
- drivers/apcsmart.h: Add additional Matrix models [http://lists.alioth.debian.org/pipermail/nut-upsdev/2011-March/005319.html]
- drivers/apcsmart.c: Flush the input buffer before sending a command [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.c, drivers/apcsmart.h: protocol_verify() only cares about explicitly specified commands. . . . . and variables [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.c: Additional driver variables that can be set to influence shutdown behavior [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.c: Update version and author info [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.c: Deal with more different shutdown methods [on behalf of Michal Soltys <soltys@ziu.info>]

- drivers/apcsmart.c: As *b* can return different things than firmware version on some old models ... ... prefer *V* over *b* [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.c: remove superfluous status_commit() [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.c, drivers/apcsmart.h: adjust ignored chars and handle over/\~over [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.c: cosmetics [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.c, drivers/apcsmart.h: remove APC_IGNORE [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.h: add compat hardware, add commands [on behalf of Michal Soltys <soltys@ziu.info>]
- drivers/apcsmart.h: comsetics - adjust tabs [on behalf of Michal Soltys <soltys@ziu.info>]

2.2441 2011-03-02 Charles Lepple <clepple+nut@gmail.com>

- docs/FAQ.txt: Update Mac power-on FAQ

2.2442 2011-03-01 Arnaud Quette <arnaud.quette@free.fr>

- configure.in, tools/Makefile.am, tools/nut-scanner/.gitignore, tools/nut-scanner/Makefile.am, tools/nut-scanner/nut-scanner.c, tools/nut-usbinfo.pl: First stab to create the nut-scanner (proof of concept), ... with full USB support, and preliminary support for NUT and Eaton XML/HTTP scan
- drivers/liebert-esp2.c: Improved Liebert ESP II support, ... including UPS shutdown (poweroff), 1 and 3-phase input and output variables, and most input / output / bypass / nominal variables, along with a fix for the USB to serial cable (patch from Farkas Levente and Spiros Ioannou)
- data/driver.list.in: Add Eaton Powerware 9140, using the serial interface, ... to the list of bcmxcp supported models

2.2443 2011-02-25 Charles Lepple <clepple+nut@gmail.com>

- docs/download.txt: Moved SHA-256 value into download page, and reformatted a bit.

2.2444 2011-02-24 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/libusb0.c, drivers/libusb1.c: Correctly manage time-out in libusb

2.2445 2011-02-24 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in: Add several upscode2 supported devices that were reported on the list: http://lists.alioth.debian.org/pipermail/-nut-upsdev/2011-February/005281.html http://lists.alioth.debian.org/pipermail/nut-upsuser/2005-July/000031.html

2.2446 2011-02-22 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/wininit.c: Add a Sleep before running upsmon... ... or else we are spamed with communication errors. Try to properly close all handles.

2.2447 2011-02-21 Arnaud Quette <arnaud.quette@free.fr>

- data/driver.list.in, drivers/mge-hid.c: Add Eaton Ellipse ECO (with Eco control support)... ... to the list of usbhid-ups supported models
- drivers/eaton-mib.c: Add support for the first ambient sensor (up to 8 sensors can be supported) on Eaton ePDU managed
- clients/upsrw.c: Add the missing *help* handler (*-h*) to the supported options

2.2448 2011-02-20 Arjen de Korte <adkorte-guest@alioth.debian.org>

- docs/man/ups.conf.txt, drivers/dstate.c: Variables that have an override.<variable> in ups.conf are now really immutable. They can't be changed anymore (not even if they would have been R/W otherwise). Rationale is, that if a user wants to override a value, we should honor that request. Added documentation accordingly (and corrected previous commit).
- docs/man/ups.conf.txt, drivers/dstate.c, drivers/main.c: Add *ignorelb* flag to list of UPS fields in ups.conf... ...to override the LB condition reported by the UPS. This allows all drivers that report battery.charge (battery.runtime) to shutdown early by setting this flag and battery.charge.low (battery.runtime.low) in ups.conf.
- data/driver.list.in: Removing subdriver setting (cypress is auto detected for this VID:PID combination, so there is no need to specify this in usb.conf)

2.2449 2011-02-19 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: Add Mustek Yukai PowerMust 1000 USB Reported by Noel David Torres Taño: http://lists.alioth.debian.org/pipermail/nut-upsuser/2010-August/006163.html Other models may be supported as well. * http://www.mustek.com.tw/Yukai/html/prod_ups/PowerMust1000.html * http://www.mustek.com.tw/Yukai/html/UPS.html

2.2450 2011-02-17 Arnaud Quette <arnaud.quette@free.fr>

- docs/download.txt: Preliminary support for source release hash, using unsigned SHA256 sum

2.2451 2011-02-15 Frederic Bohe <fbohe-guest@alioth.debian.org>

- include/common.h, scripts/Windows/wininit.c: Let nut.exe calls its children through their relatives paths

2.2452 2011-02-15 Charles Lepple <clepple+nut@gmail.com>

- data/driver.list.in: HCL: Re-add some devices to driver.list.in from [SVN:2516] These entries seem to have been dropped, potentially due to the rename from driver.list to driver.list.in, and the format change.

2.2453 2011-02-15 Arjen de Korte <adkorte-guest@alioth.debian.org>

- common/parseconf.c: In PCONF_CTX_t, argsize is an array of type size_t values, ...so instead of using sizeof(int *) we really should use sizeof(size_t) for the size of individual elements

2.2454 2011-02-14 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/wininit.c: Extent print_event capabilities

2.2455 2011-02-11 Arjen de Korte <adkorte-guest@alioth.debian.org>

- drivers/libhid.c: Restore the nut-2.4.1 behavior for reading reports from devices

2.2456 2011-02-09 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsmon.c: Add date to notification
- drivers/dummy-ups.c: Fix a memory leak in dummy-ups driver

2.2457 2011-02-09 Arjen de Korte <adkorte-guest@alioth.debian.org>

- drivers/dummy-ups.c: Prefer *snprintf* and *snprintfcat* over *strncat* (the latter can overflow the destination buffer)

2.2458 2011-02-08 Arjen de Korte <adkorte-guest@alioth.debian.org>

- drivers/apc-hid.c: Add yet another way to shutdown the APC CS-500 [http://lists.alioth.debian.org/pipermail/nut-upsuser/-2011-January/006550.html]

2.2459 2011-02-07 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c: small typo
- common/wincompat.c: Prefer upsdebugx to upslogx for low level output

2.2460 2011-02-02 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/dstate.c: clean-up printf calls
- common/common.c, drivers/upsdrvctl.c: Fix "upsdrvctl start" path issue

2.2461 2011-02-02 Arnaud Quette <arnaud.quette@free.fr>

- drivers/mge-hid.c: Fix a wrong value mapping resolution, and bump driver's HID data version to 1.20
- docs/website/web-layout.conf: Unconditional inclusion of Google Analytics code
- docs/man/dummy-ups.txt, docs/man/metasys.txt, drivers/apcsmart.c, drivers/dummy-ups.c, drivers/genericups.c, drivers/metasys.c, drivers/snmp-ups.c: Fix some spelling errors (base patch from Laurent Bigonville, from Debian)

2.2462 2011-02-01 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Makefile.am: Fix "make distckeck-light" in Windows environment

2.2463 2011-01-31 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/Makefile.am, common/common.c: Fix compilation on buildbot

2.2464 2011-01-31 Charles Lepple <clepple+nut@gmail.com>

- docs/documentation.txt, docs/download.txt: Update URL for Trac.

2.2465 2011-01-28 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsmon.c: upslog_with_errno does not call exit() nor return, ... so let the memory be freed at the end of the function (fix a double free)
- drivers/mge-xml.c: Fix warning in mge-xml.c
- drivers/libshut.c, drivers/libshut.h: Fix warnings in libshut.c.

2.2466 2011-01-28 Arnaud Quette <arnaud.quette@free.fr>

- docs/security.txt: Fix content to satisfy Docbook
- configure.in: Add missing variables setting, to allow AC_SUBST() propagation

2.2467 2011-01-27 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/isbmex.c: Porting isbmex driver
- drivers/main.c: Fix warnings in main.c
- clients/upsmon.c: Fix another race condition in notify.
- clients/upsmon.c: Fix possible race in notify.
- clients/upsmon.h: Fix warning in upsmon.h
- common/wincompat.c: Fix warning in wincompat.c
- configure.ac: Disable Hotplug and udev support on Windows (useful when cross-compiling)
- common/common.c, include/common.h: Cleaner warning fix in common.c
- clients/upsclient.c, common/wincompat.c, drivers/libhid.c, drivers/mge-xml.c, drivers/netxml-ups.c, include/wincompat.h: Add strtok_r implementation and remove last "#define strtok_r"

2.2468 2011-01-27 Chetan Agarwal <chetanagarwal-guest@alioth.debian.org>

- drivers/bcmxcp.c: Added implementation for *test.system.start* instant command.
- drivers/bcmxcp.h: Added constants for return code and UPS status.
- data/cmdvartab: Added description for *test.system.start* command.
- docs/new-names.txt: Added test.system.start variable

2.2469 2011-01-26 Frederic Bohe <fbohe-guest@alioth.debian.org>

- docs/configure.txt, nut-autoreconf: Merge from trunk
- drivers/main.h, drivers/serial.c: More clean-up of wincompat
- common/common.c: Fix a warning
- drivers/main.h, include/wincompat.h: Clean-up : put compatibility macros in wincompat.h
- clients/upsmon.c: upsmon does not fork in WIN32

2.2470 2011-01-22 Arjen de Korte <adkorte-guest@alioth.debian.org>

- drivers/apc-hid.c: Add mappings to APC HID subdriver

2.2471 2011-01-19 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/common.c: Compilation fix (from Arjen de Korte)

2.2472 2011-01-19 Emilien Kia <kiae.dev@gmail.com>

- docs/asciidoc.conf, docs/dir_conflicts.prej, m4/nut_check_libnss.m4, m4/nut_check_libopenssl.m4, scripts/upower/95-upower-hid.rules: Finish trunk merging (see previous commit).
- COPYING, INSTALL, Makefile.am, NEWS, README, UPGRADING, autogen.sh, clients/Makefile.am, configure.in, data/.gitignore data/Makefile.am, data/driver.list.in, data/epdu-managed.dev, data/{evolution500.dev ⇒ evolution500.seq}, docs/.gitignore, docs/Makefile.am, docs/config-notes.txt, docs/configure.txt, docs/developer-guide.txt, docs/docinfo.xml, docs/documentation.txt, docs/download.txt, docs/history.txt, docs/images/old-cgi.png, docs/man/.gitignore, docs/nut-names.txt, docs/{website ⇒ }/stable-hcl.txt, docs/support.txt, docs/user-manual.txt, docs/website/Makefile.am, docs/website/news.txt, docs/website/website.txt, drivers/.gi drivers/Makefile.am, drivers/idowell-hid.c, drivers/idowell-hid.h, drivers/usbhid-ups.c, m4/nut_check_libhal.m4, m4/nut_check_libne m4/nut_check_libnetsnmp.m4, m4/nut_check_libpowerman.m4, m4/nut_check_libusb.m4, m4/nut_check_libwrap.m4, script-s/Makefile.am, scripts/README, scripts/augeas/Makefile.am, scripts/augeas/README, scripts/augeas/gen-nutupsconf-aug.py, scripts/augeas/nuthostsconf.aug.in, scripts/augeas/nutnutconf.aug.in, scripts/augeas/nutupsconf.aug.tpl, scripts/augeas/nutups-dconf.aug.in, scripts/augeas/nutupsdusers.aug.in, scripts/augeas/nutupsmonconf.aug.in, scripts/augeas/nutupsschedconf.aug.in, scripts/augeas/nutupssetconf.aug.in, scripts/augeas/tests/test_nut.aug, scripts/hal/.gitignore, scripts/hal/ups-nut-device.fdi.in, scripts/hotplug/.gitignore, scripts/hotplug/libhid.usermap, scripts/python/app/NUT-Monitor, scripts/python/module/PyNUT.py, scripts/python/module/test_nutclient.py, scripts/udev/.gitignore, scripts/udev/nut-usbups.rules.in, scripts/upower/95-upower-hid.rules, server/Makefile.am, server/conf.c, server/desc.c, tools/Makefile.am, tools/nut-hclinfo.py, tools/nut-usbinfo.pl: Merge from trunk ([SVN:2777] to HEAD).
- clients/upsmon.c, conf/upsd.conf.sample, docs/man/upsd.conf.txt, docs/security.txt, server/conf.c, server/netssl.c, server/netssl.h: Add flag to desactivate client certificate validation (in upsd). Define WITH_CLIENT_CERTIFICATE_VALIDATION flag to enable it.

2.2473 2011-01-18 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/common.c, scripts/Windows/wininit.c: Safer relative path management
- scripts/Windows/wininit.c: Fix service access to configuration path

2.2474 2011-01-18 Emilien Kia <kiae.dev@gmail.com>

- clients/upsclient.c, clients/upsmon.c: Move warning message about CERTVERIFY in upscli... ...to be coherant with real behavior.
- clients/upsclient.c: Force to disable SSLv2 handshake compatibility (if no, nss can not connect to openssl server).
- clients/upsclient.c: Force disconnect if SSL is not available and CERTVERIFY is 1 (but no FORCESSL).
- clients/upsclient.c, clients/upsmon.c: Fix CERTVERIFY behaviour for NSS.
- conf/upsd.conf.sample: Forget a comment heading #.
- clients/upsclient.c: Prevent segfault.

2.2475 2011-01-18 Arjen de Korte <adkorte-guest@alioth.debian.org>

- common/common.c: Prefer to use static variables locally over global variables (to prevent namespace conflicts)

2.2476 2011-01-17 Charles Lepple <clepple+nut@gmail.com>

- scripts/Makefile.am: Include perl/Nut.pm in tarball.
- COPYING, Makefile.am: Include LICENSE-GPL{2,3} in tarball. Made the text in COPYING agree with the filenames.

2.2477 2011-01-14 Emilien Kia <kiae.dev@gmail.com>

- server/netssl.c: Prevent infinite loop when password is not found.

2.2478 2011-01-13 Frederic Bohe <fbohe-guest@alioth.debian.org>

- Makefile.am, clients/upsc.c, clients/upsclient.c, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, common/inet_aton.c, common/state.c, common/wincompat.c, docs/configure.txt, docs/images/eaton-logo.png, docs/man/upsd.users.txt, drivers/dstate.c, drivers/dstate.h, drivers/dummy-ups.h, drivers/serial.h, drivers/upsdrvctl.c, include/common.h, include/wincompat.h, nut-autoreconf, scripts/Windows/wininit.c, server/conf.c, server/ssl.c, server/sstate.c, server/upsd.c, server/upsd.h, server/user.c: Merge from the trunk → porting the IPv6 code to Windows [re-added lost man files, and edited out conflict markers. -CFL]

2.2479 2011-01-11 Emilien Kia <kiae.dev@gmail.com>

- docs/man/Makefile.am, docs/man/upscli_add_host_cert.txt, docs/man/upscli_cleanup.txt, docs/man/upscli_init.txt, docs/man/upsclient.txt: Add upscli API doc.
- conf/upsd.conf.sample, docs/man/upsd.conf.txt, server/conf.c, server/netssl.c: Use CERTFILE directive for openssl and CERTPATH for nss.

2.2480 2011-01-11 Arjen de Korte <adkorte-guest@alioth.debian.org>

- conf/upsmon.conf.sample, docs/man/upsmon.conf.txt: Correct the usage of CERTPATH for OpenSSL

2.2481 2011-01-10 Emilien Kia <kiae.dev@gmail.com>

- docs/security.txt: Add SSL doc about NSS usage.

2.2482 2011-01-07 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsclient.c: Fix client disconnection
- scripts/Windows/wininit.c: code cleanup
- common/common.c, common/wincompat.c, drivers/mge-utalk.c, drivers/serial.h, include/wincompat.h: Fix latency bug for mge-utalk.

2.2483 2011-01-07 Emilien Kia <kiae.dev@gmail.com>

- conf/upsd.conf.sample, conf/upsmon.conf.sample, docs/man/upsd.conf.txt, docs/man/upsmon.conf.txt: Document upsd.conf and upsmon.conf about security directives.
- server/conf.c: Deprecate CERTFILE conf var to the benefit of CERTPATH: . . . homogenize conf directive names.

2.2484 2011-01-06 Emilien Kia <kiae.dev@gmail.com>

- clients/upsclient.c, server/netssl.c: More human log.
- clients/upsclient.c, clients/upsclient.h, clients/upsmon.c, server/conf.c, server/netssl.c, server/netssl.h: Add certificate validation (both server and client sides).

2.2485 2011-01-04 Emilien Kia <kiae.dev@gmail.com>

- clients/upsclient.c, server/conf.c, server/netssl.c, server/netssl.h, server/upsd.c: Allow to specify server certificate name (instead of hard coded ;)). Remove unused (client only) callback on server.
- server/netssl.c: Add more *lack of initialization* test.
- clients/upsclient.c, server/conf.c, server/netssl.c, server/upsd.c: Prevent memory leaks and add notes about them. Add password to decrypt secret key in server.

2.2486 2010-12-23 Emilien Kia <kiae.dev@gmail.com>

- clients/upsclient.c, clients/upsclient.h, clients/upsmon.c, m4/nut_check_libnss.m4, server/ctype.h, server/netssl.c, server/netssl.h, server/upsd.c: First implementation of NSS support.

2.2487 2010-12-22 Frederic Bohe <fbohe-guest@alioth.debian.org>

- include/common.h, server/upsd.c: Make datapath relative too

2.2488 2010-12-22 Emilien Kia <kiae.dev@gmail.com>

- AUTHORS, clients/upsclient.c, conf/ups.conf.sample, configure.in, data/driver.list.in, docs/FAQ.txt, docs/acknowledgements.txt, docs/cables/sms.txt, docs/config-notes.txt, docs/configure.txt, docs/dir_conflicts.prej, docs/macros.txt, docs/man/Makefile.am, docs/man/blazer.txt, docs/man/index.txt, docs/man/nutupsdrv.txt, docs/man/ups.conf.txt, docs/new-drivers.txt, docs/website/scripts/nut_jquery.js, drivers/Makefile.am, drivers/dstate.c, drivers/dstate.h, drivers/megatec.c, drivers/megatec.h, drivers/megatec_usb.c, m4/nut_check_os.m4, server/upsd.c, tools/nut-usbinfo.pl: Merge trunk from branch creation

2.2489 2010-12-21 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Makefile.am: Fix winevent.h generation on clean compile (by Paul Fertser)
- scripts/Windows/Makefile.am: Forgot to remove now useless winevent.dll reference
- configure.ac, scripts/Windows/Makefile.am: Do not use an external DLL anymore. It seems that linking the resources directly into the binary makes the event log happy. (thanks to Paul Fertser for its help)

2.2490 2010-12-21 Emilien Kia <kiae.dev@gmail.com>

- INSTALL, Makefile.am, README, docs/ideas.txt ⇒ TODO, UPGRADING, clients/upsclient.c, clients/upsclient.h, clients/upscmd.c, clients/upsrw.c, conf/upsd.conf.sample, conf/upsd.users.sample, configure.in, data/Makefile.am, data/driver.list, data/driver.list.in, docs/.gitignore, docs/FAQ, docs/FAQ.txt, docs/Makefile.am, docs/README, docs/acknowledgements.txt, docs/acpi.txt, docs/asciidoc.txt, docs/big-servers.txt, docs/cables.txt, docs/chroot.txt, docs/commands.txt, docs/config-files.txt, docs/config-notes.txt, docs/configure.txt, docs/contact-closure.txt, docs/data-room.txt, docs/design.txt, docs/developer-guide.txt, docs/developers.txt, docs/documentation.txt, docs/download.txt, docs/features.txt, docs/hid-subdrivers.txt, docs/history.txt, docs/images/advanced.png, docs/images/asciidoc.png, docs/images/bigbox.png, docs/images/bizarre.png, docs/images/blue-arrow.png, docs/images/cables/73-0724.png, docs/images/cables/940-0024C.jpg, docs/images/cables/Lansafecable.jpg, docs/images/cables/SOL330.png, docs/images/cables/belkin-f6cx-rkm-xu-cable.jpg, docs/images/cables/mac-940-0024C.png, docs/images/cables/mge-66049.png, docs/images/cables/mge-db9-rj12.jpg, docs/images/cables/mge-db9-rj45.jpg, docs/images/eaton-logo.png, docs/images/note.png, docs/images/nut-banner.png, docs/images/nut_layering.png, docs/images/nut_layering.svg, docs/images/simple.png, docs/images/warning.png, docs/macros.txt, docs/man/Makefile.am, man/apcsmart.8 ⇒ docs/man/apcsmart.txt, docs/man/asciidoc.conf, docs/man/bcmxcp.txt, man/bcmxcp_usb.8 ⇒ docs/man/bcmxcp_usb.txt, man/belkin.8 ⇒ docs/man/belkin.txt, docs/man/belkinunv.txt, man/bestfcom.8 ⇒ docs/man/bestfcom.txt, docs/man/bestfortress.txt, docs/man/bestuferrups.txt, man/bestups.8 ⇒ docs/man/bestups.txt, man/blazer.8 ⇒ docs/man/blazer.txt, man/clone.8 ⇒ docs/man/clone.txt,

man/dummy-ups.8 ⇒ docs/man/dummy-ups.txt, docs/man/etapro.txt, docs/man/everups.txt, man/gamatronic.8 ⇒ docs/man/gamatronic.txt, man/genericups.8 ⇒ docs/man/genericups.txt, man/hosts.conf.5 ⇒ docs/man/hosts.conf.txt, docs/man/index.txt, docs/man/isbmex.txt, docs/man/ivtscd.txt, docs/man/libupsclient-config.txt, docs/man/liebert-esp2.txt, docs/man/liebert.txt, docs/man/masterguard.txt, man/megatec.8 ⇒ docs/man/megatec.txt, docs/man/megatec_usb.txt, man/metasys.8 ⇒ docs/man/metasys.txt, docs/man/mge-shut.txt, docs/man/mge-utalk.txt, docs/man/microdowell.txt, docs/man/netxml-ups.txt, man/nut.conf.5 ⇒ docs/man/nut.conf.txt, docs/man/nutupsdrv.txt, man/oneac.8 ⇒ docs/man/oneac.txt, docs/man/optiups.txt, docs/man/powercom.txt, docs/man/powerman-pdu.txt, man/powerpanel.8 ⇒ docs/man/powerpanel.txt, docs/man/rhino.txt, docs/man/richcomm_usb.txt, docs/man/safenet.txt, docs/man/skel.txt, man/snmp-ups.8 ⇒ docs/man/snmp-ups.txt, docs/man/solis.txt, man/tripplite.8 ⇒ docs/man/tripplite.txt, docs/man/tripplite_usb.txt, docs/man/tripplitesu.txt, docs/man/ups.conf.txt, docs/man/upsc.txt, docs/man/upscli_connect.txt, docs/man/upscli_disconnect.txt, docs/man/upscli_fd.txt, docs/man/upscli_get.txt, docs/man/upscli_list_next.txt, docs/man/upscli_list_start.txt, docs/man/upscli_readline.txt, docs/man/upscli_sendline.txt, docs/man/upscli_splitadd docs/man/upscli_splitname.txt, docs/man/upscli_ssl.txt, docs/man/upscli_strerror.txt, docs/man/upscli_upserror.txt, docs/man/upsclient.txt, man/upscmd.8 ⇒ docs/man/upscmd.txt, docs/man/upscode2.txt, man/upsd.conf.5 ⇒ docs/man/upsd.conf.txt, docs/man/upsd.txt, man/upsd.users.5 ⇒ docs/man/upsd.users.txt, man/upsdrvctl.8 ⇒ docs/man/upsdrvctl.txt, docs/man/upsimage.cgi.txt, docs/man/upslog.txt, man/upsmon.conf.5 ⇒ docs/man/upsmon.conf.txt, man/upsmon.8 ⇒ docs/man/upsmon.txt, man/upsrw.8 ⇒ docs/man/upsrw.txt, docs/man/upssched.conf.txt, man/upssched.8 ⇒ docs/man/upssched.txt, man/upsset.cgi.8 ⇒ docs/man/upsset.cgi.txt, man/upsset.conf.5 ⇒ docs/man/upsset.conf.txt, man/upsstats.cgi.8 ⇒ docs/man/upsstats.cgi.txt, docs/man/upsstats.html.txt, man/usbhid-ups.8 ⇒ docs/man/usbhid-ups.txt, docs/man/victronups.txt, docs/megatec.txt, docs/netprotocol.txt, docs/new-clients.txt, docs/new-drivers.txt, docs/new-names.txt, docs/nut-names.txt, docs/nut-qa.txt, docs/osd-notify.txt, docs/outlets.txt, docs/packager-guide.txt, docs/pager.txt, docs/powersaving.txt, docs/protocol.txt, docs/{upssched.txt ⇒ scheduling.txt}, docs/security.txt, docs/shutdown.txt, docs/sock-protocol.txt, docs/ssl.txt, docs/support.txt, docs/suspend-to-disk.txt, docs/user-manual.txt, docs/website/Makefile.am, docs/website/css/ie-overrides.css, docs/website/css/web-layout.css, docs/website/css/xhtml11-quirks.css, docs/website/css/xhtml11.css, docs/website/faviconut.ico, docs/website/faviconut.png, docs/website/news.txt, docs/website/projects.txt, docs/website/scripts/filter_png.js, docs/website/scripts/jquery.js, docs/website/scripts/nut_jquery.js, docs/website/scripts/toc.js, docs/website/stable-hcl.txt, docs/website/ups-protocols.txt, docs/website/web-layout.conf, docs/website/website.txt, drivers/apc-hid.c, drivers/belkin.c, drivers/belkin.h, drivers/ietf-mib.c, drivers/libhid.c, drivers/mge-utalk.c, drivers/powerp-bin.c, drivers/powerware-mib.c, drivers/skel.c, drivers/snmp-ups.c, drivers/snmp-ups.h, m4/ax_compare_version.m4, m4/nut_check_asciidoc.m4, m4/nut_check_libnss.m4, m4/nut_check_libopenssl.m4, m4/nut_check_lib m4/nut_report_feature.m4, man/Makefile.am, man/bcmxcp.8, man/belkinunv.8, man/bestfortress.8, man/bestuferrups.8, man/etapro.8, man/everups.8, man/isbmex.8, man/ivtscd.8, man/libupsclient-config.1, man/liebert-esp2.8, man/liebert.8, man/masterguard.8, man/megatec_usb.8, man/mge-shut.8, man/mge-utalk.8, man/microdowell.8, man/netxml-ups.8, man/nutupsdrv.8, man/optiups.8, man/powercom.8, man/powerman-pdu.8, man/rhino.8, man/richcomm_usb.8, man/safenet.8, man/skel.8, man/solis.8, man/tripplite_usb.8, man/tripplitesu.8, man/ups.conf.5, man/upsc.8, man/upscli_connect.3, man/upscli_disconnect.3, man/upscli_fd.3, man/upscli_get.3, man/upscli_list_next.3, man/upscli_list_start.3, man/upscli_readline.3, man/upscli_sendline.3, man/upscli_splitaddr.3, man/upscli_splitname.3, man/upscli_ssl.3, man/upscli_strerror.3, man/upscli_upserror.3, man/upsclient.3, man/upscode2.8, man/upsd.8, man/upsimage.cgi.8, man/upslog.8, man/upssched.conf.5, man/upsstats.html.5, man/victronups.8, scripts/upower/95-upower-hid.rules, server/Makefile.am, server/conf.c, server/ctype.h, server/netcmds.h, server/{netssl.c ⇒ ssl.c}, server/{netssl.h ⇒ ssl.h}, server/upsd.c, tools/Makefile.am, tools/nut-hclinfo.py, tools/nut-usbinfo.pl, tools/svn2cl.authors: Merge from trunk ([SVN:2761])

2.2491 2010-12-20 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/wincompat.c, configure.ac, include/common.h: Add usleep() implementation for systems that lack it (patch from Paul Fertser) This is needed e.g. on Debian which ships a really ancient version of mingw runtime.
- common/common.c, include/common.h: Use paths relative to the .exe file's binary for configuration and PID files.

2.2492 2010-12-17 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsclient.c, common/common.c, common/wincompat.c, drivers/belkinunv.c, drivers/bestfcom.c, drivers/bestuferrups.c, drivers/blazer_ser.c, drivers/ivtscd.c, drivers/mge-utalk.c, drivers/powercom.c, drivers/safenet.c, drivers/serial.c, drivers/serial.h, drivers/upscode2.c, include/common.h, include/wincompat.h, server/upsd.c: First implementation of termios functions
- configure.ac: forgot this for automatic winevent.h and winevent.dll generation
- common/common.c: Simplify timeout calculation

2.2493 2010-12-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/Makefile.am: Automatic generation of winevent.h and winevent.dll
- scripts/Windows/Makefile, scripts/Windows/Makefile.am: Update halt.c compilation

2.2494 2010-12-10 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/common.c: Fix timeout calculation
- clients/upsrw.c: upsrw is now working
- clients/upscmd.c: upscmd is now working

2.2495 2010-12-09 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/common.c, drivers/belkinunv.c, drivers/bestfcom.c, drivers/bestfortress.c, drivers/bestuferrups.c, drivers/blazer_ser.c, drivers/clone-outlet.c, drivers/clone.c, drivers/dummy-ups.c, drivers/genericups.c, drivers/genericups.h, drivers/ivtscd.c, drivers/mge-utalk.c, drivers/microdowell.c, drivers/powercom.c, drivers/powercom.h, drivers/safenet.c, drivers/serial.c, drivers/serial.h, drivers/upscode2.c, include/common.h: More work on serial drivers. Still some TODOs to address but all drivers are compiling now. Successfully tested mge-shut driver.

2.2496 2010-12-01 Frederic Bohe <fbohe-guest@alioth.debian.org>

- scripts/Windows/wininit.c: Start upsmon as a single process.
- clients/upsmon.c: upsmon uses a message box instead of wall
- server/nut_ctype.h, server/upsd.c: Fix upsd clients read

2.2497 2010-11-30 Arnaud Quette <arnaud.quette@free.fr>

- configure.in, docs/configure.txt: Change the default SSL implementation to OpenSSL, ...if both OpenSSL and Mozilla NSS are present

2.2498 2010-11-29 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/Makefile.am: Reverting useless previous commit: [SVN:2705]

2.2499 2010-11-29 Arjen de Korte <adkorte-guest@alioth.debian.org>

- server/Makefile.am, server/conf.c, server/netcmds.h, server/{ssl.c ⇒ netssl.c}, server/{ssl.h ⇒ netssl.h}, server/upsd.c: Resolve namespace conflict with nss_compat_ossl

2.2500 2010-11-28 Arjen de Korte <adkorte-guest@alioth.debian.org>

- clients/upsclient.h, m4/nut_check_libnss.m4, server/ctype.h, server/ssl.c, server/ssl.h: Use the *nss_compat_ossl* compatibility layer... ...to use the Mozilla NSS library instead of OpenSSL (we might want to include native support in the future, but this will at least allow a quick migration for testing purposes)

2.2501 2010-11-26 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/Makefile.am: Add regex library for drivers (by Arnaud Quette)
- common/common.c, common/wincompat.c, configure.ac, drivers/dstate.c, drivers/dstate.h, drivers/main.c, drivers/upsdrvctl.c, include/common.h, include/wincompat.h, scripts/Makefile.am, scripts/Windows/Makefile.am, {common ⇒ scripts/Windows}/wineve scripts/Windows/wininit.c, server/sstate.c, server/upsd.c, server/upstype.h: Change the "full services" approach to a more POSIX one. We now have only one Windows service in charge of starting/stopping the relevant NUT processes. It's a Windows replacement for the init script. This service is also a proxy for processes to write to Windows event log. So only one service has to be registered to be able to log event.

2.2502 2010-11-26 Arnaud Quette <arnaud.quette@free.fr>

- clients/upsclient.c, clients/upsclient.h, configure.in, docs/configure.txt, docs/macros.txt, m4/nut_check_libnss.m4, m4/nut_check_libo m4/nut_check_libssl.m4, server/ctype.h, server/ssl.c, server/ssl.h: Implement and document detection and activation of SSL support, ...using either Mozilla NSS or OpenSSL

2.2503 2010-11-19 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/upsclient.c: Remove useless header

2.2504 2010-11-16 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/common.c, drivers/main.c: Better use of NUT framework for previous commit
- common/common.c, drivers/main.c, include/common.h, server/upsd.c: We need to register one driver service per ups in upsd.conf. So these drivers need to have different names and command line arguments.

2.2505 2010-11-05 Frederic Bohe <fbohe-guest@alioth.debian.org>

- common/common.c, drivers/dstate.c, drivers/main.c, include/common.h, server/upsd.c: More factorization and fix a bug in drivers services stop
- configure.ac: This 3 lines has been duplicated instead of being removed.
- clients/Makefile.am, common/Makefile.am, configure.ac, m4/nut_check_socketlib.m4, m4/nut_type_socklen_t.m4: Correct integration of WinSock library (by Arnaud Quette)

2.2506 2010-11-05 Charles Lepple <clepple+nut@gmail.com>

- server/Makefile.am: Finish removing hard-coded paths to winsock2 library (as in [SVN:2674])

2.2507 2010-11-04 Arnaud Quette <arnaud.quette@free.fr>

- configure.ac, drivers/Makefile.am, drivers/megatec.c, drivers/megatec_usb.c: Add regex library check and flags

2.2508 2010-11-04 Arjen de Korte <adkorte-guest@alioth.debian.org>

- configure.ac, drivers/Makefile.am, m4/nut_check_libusb.m4: Checking whether or not we should use the *regex* library... ...should be done for all USB connected devices (since we use this in the matcher function). In that case it is much cleaner to add this check in nut_check_libusb.m4. This also fixes the wrong use of AC_SEARCH_LIBS, that already adds *-lregex* to LIBS (which means all binaries are linked against this library).

2.2509 2010-11-03 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/dstate.c, drivers/main.c: Make drivers run as service by default
- m4/nut_type_socklen_t.m4: MinGW socklen detection (by Arnaud Quette)
- common/common.c, include/common.h, server/upsd.c: Factorization of service code

2.2510 2010-10-29 Frederic Bohe <fbohe-guest@alioth.debian.org>

- server/upsd.c: Add Uninstall facility to upsd

2.2511 2010-10-28 Frederic Bohe <fbohe-guest@alioth.debian.org>

- server/upsd.c: upsd behaves like a service by default now
- common/common.c, common/wincompat.c: Remove C+\+ style comments
- common/common.c, common/wincompat.c, common/winevent.mc, include/common.h, include/wincompat.h: Map syslog to Windows's event log.

2.2512 2010-10-21 Chetan Agarwal <chetanagarwal-guest@alioth.debian.org>

- drivers/bcmxcp.c: No functional changes Removed redundant initialization for character buffer and replaced hardcoded value for sprintf with sizeof(buffer)

2.2513 2010-10-20 Frederic Bohe <fbohe-guest@alioth.debian.org>

- drivers/dstate.c: Better handling of multiple connection on drivers
- server/sstate.c, server/upsd.c: Remove unneeded debug printf
- common/common.c: Remove hack from confpath function. You have to declare a NUT_CONFPATH environnement variable in your Windows settings
- common/wincompat.c, include/wincompat.h: Set again eol property to native
- common/inet_aton.c, drivers/dstate.c, include/common.h, server/upsd.c: Fix errors appeared when merging from regular 2.4.3 to svn trunk
- drivers/Makefile.am: Remove hard coded path to libws2_32
- clients/Makefile.am, common/Makefile.am, {clients ⇒ common}/wincompat.c, {clients ⇒ include}/wincompat.h, server/-Makefile.am: Move wincompat.[ch] to common

2.2514 2010-10-20 Chetan Agarwal <chetanagarwal-guest@alioth.debian.org>

- drivers/bcmxcp.c: - Add Device Part number reading from config block. - fix a few typo errors in comments, - Change driver version to 0.25.
- drivers/bcmxcp.h: define and use BCMXCP_CONFIG_BLOCK_PART_NUMBER constant . . . . . for reading the Device Part Number from Config Block
- docs/new-names.txt: Add *device.part* to list of supported variables
- data/cmdvartab: Add description for new variable added - *device.part*

2.2515 2010-10-20 Charles Lepple <clepple+nut@gmail.com>

- clients/wincompat.c, clients/wincompat.h: Fix executable bits

2.2516 2010-10-20 Arnaud Quette <arnaud.quette@free.fr>

- clients/upsc.c, clients/upsclient.c, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, clients/upssched.c, common/common.c, common/inet_aton.c, common/wincompat.c, configure.ac, drivers/dstate.h, drivers/libusb0.c, drivers/libusb1.c, drivers/serial.h, drivers/usb-common.c, include/common.h, server/ssl.c, server/sstate.c, server/upsd.c, server/upsd.h, server/user.c: Rename DATADIR to NUT_DATADIR to avoid conflict with MinGW objidl.h header

2.2517 2010-10-18 Frederic Bohe <fbohe-guest@alioth.debian.org>

- clients/wincompat.c, clients/wincompat.h: Set eol-style to native
- clients/Makefile.am, clients/upsc.c, clients/upsclient.c, clients/upscmd.c, clients/upslog.c, clients/upsmon.c, clients/upsrw.c, clients/upssched.c, clients/wincompat.c, clients/wincompat.h, common/common.c, common/state.c, drivers/Makefile.am, drivers/apcsmart.h, drivers/bcmxcp_usb.c, drivers/belkin.h, drivers/blazer_usb.c, drivers/dstate.c, drivers/dstate.h, drivers/dummy-ups.c, drivers/libhid.c, drivers/libusb0.c, drivers/libusb1.c, drivers/main.c, drivers/main.h, drivers/megatec.c, drivers/megatec_usb.c, drivers/mge-xml.c, drivers/netxml-ups.c, drivers/richcomm_usb.c, drivers/serial.c, drivers/serial.h, drivers/upsdrvctl.c, drivers/usb-common.c, drivers/usbhid-ups.c, include/common.h, server/Makefile.am, server/conf.c, server/ssl.c, server/sstate.c, server/sstate.h, server/stype.h, server/upsd.c, server/upsd.h, server/upstype.h, server/user.c: Initial commit (preliminary investigation)

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