

# **Network UPS Tools Change Log**

NUT project community contributors

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME
2.8.4.817 2.8.4.856-856+g130826c72	2025-11-24	Current release snapshot of Network UPS Tools (NUT).	
2.8.4	2025-08-07	Fixed a few regressions introduced by release v2.8.3. Some changes to docs and recipes, especially for parallel builds. Updated NUT SEMVER definition some more. Some rounds of code-hardening project. Numerous driver updates, some new ones introduced.	JK
2.8.3	2025-04-07	Some changes to docs and recipes, libupsclient API and functionality. Updated NUT SEMVER definition and added scripting around it. Groundwork for vendor-defined status and INSTCMD buzzwords like "ECO". Fixed some regressions and added improvements for certain new device series.	JK
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

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2.8.0	2022-04-26	<p>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.</p>	JK
2.7.4	2016-03-09	<p>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.</p>	AQ
2.7.3	2015-04-22	<p>Documentation revised, including some API changes. Added NUT DDL links. NUT variables namespace updated.</p>	AQ
2.7.2	2014-04-17	<p>The nut-website project was offloaded into a separate repository. FreeDesktop HAL support was removed (obsoleted in GNOME consumer). Introduced nutdrv_atcl_usb driver.</p>	AQ
2.7.1	2013-11-19	<p>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.</p>	CL

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NUMBER	DATE	DESCRIPTION	NAME
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

## Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Very detailed Change Log</b>	<b>1</b>
2.1	2025-11-22 Jim Klimov <jimklimov+nut@gmail.com>	1
2.2	2025-11-21 Jim Klimov <jimklimov+nut@gmail.com>	1
2.3	2025-11-20 rewssiestedbo <48805403+rewssiestedbo@users.noreply.github.com>	1
2.4	2025-11-20 Jim Klimov <jimklimov+nut@gmail.com>	1
2.5	2025-11-19 Jim Klimov <jimklimov+nut@gmail.com>	1
2.6	2025-11-17 Jim Klimov <jimklimov+nut@gmail.com>	1
2.7	2025-11-12 atanass-vladimirov <34871743+atanass-vladimirov@users.noreply.github.com>	2
2.8	2025-11-12 Jim Klimov <jimklimov+nut@gmail.com>	2
2.9	2025-11-12 Atanas Vladimirov <vladimirov.atanass@gmail.com>	2
2.10	2025-11-11 Jim Klimov <jimklimov+nut@gmail.com>	2
2.11	2025-11-11 Atanas Vladimirov <vladimirov.atanass@gmail.com>	3
2.12	2025-11-11 Andrew J. Kroll <xxxajk@gmail.com>	3
2.13	2025-11-10 Jim Klimov <jimklimov+nut@gmail.com>	3
2.14	2025-11-10 Atanas Vladimirov <vladimirov.atanass@gmail.com>	3
2.15	2025-11-09 Jim Klimov <jimklimov+nut@gmail.com>	3
2.16	2025-11-09 Atanas Vladimirov <vladimirov.atanass@gmail.com>	3
2.17	2025-11-08 Jim Klimov <jimklimov+nut@gmail.com>	4
2.18	2025-11-08 Atanas Vladimirov <vladimirov.atanass@gmail.com>	4
2.19	2025-11-07 Jim Klimov <jimklimov+nut@gmail.com>	4
2.20	2025-11-06 Jim Klimov <jimklimov+nut@gmail.com>	5
2.21	2025-11-05 Jim Klimov <jimklimov+nut@gmail.com>	6
2.22	2025-11-03 Jim Klimov <jimklimov+nut@gmail.com>	7
2.23	2025-10-31 Jim Klimov <jimklimov+nut@gmail.com>	7
2.24	2025-10-30 NOV <149171388+NohanV@users.noreply.github.com>	7
2.25	2025-10-30 Jim Klimov <jimklimov+nut@gmail.com>	7
2.26	2025-10-29 Atanas Vladimirov <vladimirov.atanass@gmail.com>	7
2.27	2025-10-27 Jim Klimov <jimklimov+nut@gmail.com>	7
2.28	2025-10-26 Jim Klimov <jimklimov+nut@gmail.com>	8
2.29	2025-10-25 Jim Klimov <jimklimov+nut@gmail.com>	8
2.30	2025-10-24 Jim Klimov <jimklimov+nut@gmail.com>	8
2.31	2025-10-23 Jim Klimov <jimklimov+nut@gmail.com>	8
2.32	2025-10-22 Jim Klimov <jimklimov+nut@gmail.com>	9
2.33	2025-10-22 Atanas Vladimirov <vladimirov.atanass@gmail.com>	9
2.34	2025-10-21 Viktor Drobot <linux776@gmail.com>	9

2.35	2025-10-21 Jim Klimov <jimklimov+nut@gmail.com>	10
2.36	2025-10-21 Atanas Vladimirov <vladimirov.atanas@gmail.com>	10
2.37	2025-10-20 Viktor Drobot <linux776@gmail.com>	11
2.38	2025-10-20 Jim Klimov <jimklimov+nut@gmail.com>	11
2.39	2025-10-19 Jim Klimov <jimklimov+nut@gmail.com>	12
2.40	2025-10-18 Atanas Vladimirov <vladimirov.atanas@gmail.com>	12
2.41	2025-10-17 Jim Klimov <jimklimov+nut@gmail.com>	12
2.42	2025-10-16 Jim Klimov <jimklimov+nut@gmail.com>	12
2.43	2025-10-15 Jim Klimov <jimklimov+nut@gmail.com>	13
2.44	2025-10-14 Jim Klimov <jimklimov+nut@gmail.com>	13
2.45	2025-10-13 Jim Klimov <jimklimov+nut@gmail.com>	13
2.46	2025-10-12 Jim Klimov <jimklimov+nut@gmail.com>	14
2.47	2025-10-11 Jim Klimov <jimklimov+nut@gmail.com>	15
2.48	2025-10-10 Jim Klimov <jimklimov+nut@gmail.com>	15
2.49	2025-10-09 Jim Klimov <jimklimov+nut@gmail.com>	16
2.50	2025-10-08 Jim Klimov <jimklimov+nut@gmail.com>	18
2.51	2025-10-07 Jim Klimov <jimklimov+nut@gmail.com>	19
2.52	2025-10-06 Jim Klimov <jimklimov+nut@gmail.com>	20
2.53	2025-10-04 Jim Klimov <jimklimov+nut@gmail.com>	20
2.54	2025-10-02 Jim Klimov <jimklimov+nut@gmail.com>	21
2.55	2025-10-01 Jim Klimov <jimklimov+nut@gmail.com>	21
2.56	2025-09-30 Jim Klimov <jimklimov+nut@gmail.com>	23
2.57	2025-09-29 Jim Klimov <jimklimov+nut@gmail.com>	23
2.58	2025-09-28 Nick Briggs <nicholas.h.briggs@gmail.com>	24
2.59	2025-09-25 Jim Klimov <jimklimov+nut@gmail.com>	24
2.60	2025-09-24 Jim Klimov <jimklimov+nut@gmail.com>	25
2.61	2025-09-23 Jim Klimov <jimklimov+nut@gmail.com>	25
2.62	2025-09-22 Jim Klimov <jimklimov+nut@gmail.com>	25
2.63	2025-09-21 Jim Klimov <jimklimov+nut@gmail.com>	26
2.64	2025-09-19 Jim Klimov <jimklimov+nut@gmail.com>	26
2.65	2025-09-18 Jim Klimov <jimklimov+nut@gmail.com>	26
2.66	2025-09-12 Jim Klimov <jimklimov+nut@gmail.com>	26
2.67	2025-09-11 Jim Klimov <jimklimov+nut@gmail.com>	27
2.68	2025-09-10 Jim Klimov <jimklimov+nut@gmail.com>	27
2.69	2025-09-08 Jim Klimov <jimklimov+nut@gmail.com>	27
2.70	2025-09-07 Jim Klimov <jimklimov+nut@gmail.com>	28
2.71	2025-09-06 desertwitch <24509509+desertwitch@users.noreply.github.com>	28
2.72	2025-09-05 Jim Klimov <jimklimov+nut@gmail.com>	28
2.73	2025-09-04 Jim Klimov <jimklimov+nut@gmail.com>	28

2.74 2025-09-03 Laurent Bigonville <bigon@bigon.be>	29
2.75 2025-09-03 Jim Klimov <jimklimov+nut@gmail.com>	29
2.76 2025-09-02 Jim Klimov <jimklimov+nut@gmail.com>	29
2.77 2025-09-02 Hector Martin <marcan@marcan.st>	29
2.78 2025-08-31 Jim Klimov <jimklimov+nut@gmail.com>	29
2.79 2025-08-09 Colin Dean <colin dean@users.noreply.github.com>	29
2.80 2025-08-08 Jim Klimov <jimklimov+nut@gmail.com>	30
2.81 2025-07-30 Jim Klimov <jimklimov+nut@gmail.com>	30
2.82 2025-07-08 Jim Klimov <jimklimov+nut@gmail.com>	30
2.83 2024-01-31 Charles Lepple <clepple+nut@gmail.com>	30
2.84 2024-01-25 Charles Lepple <clepple+nut@gmail.com>	31
2.85 2023-02-28 Jim Klimov <jimklimov+nut@gmail.com>	31
2.86 2022-02-10 Jim Klimov <jim@jimklimov.com>	31
2.87 2022-02-09 Jim Klimov <jim@jimklimov.com>	31
2.88 2021-08-13 Clément <perrettecl@users.noreply.github.com>	31
2.89 2021-08-12 Clément <perrettecl@users.noreply.github.com>	31
2.90 2021-05-18 Clappier, Eric <EricClappier@Eaton.com>	31
2.91 2021-05-17 Clément <clementperrette@eaton.com>	31
2.92 2021-05-04 Jim Klimov <jim@jimklimov.com>	31
2.93 2021-02-10 Jim Klimov <jim@jimklimov.com>	31
2.94 2021-01-21 Jim Klimov <jim@jimklimov.com>	32
2.95 2021-01-20 Jim Klimov <jim@jimklimov.com>	32
2.96 2020-03-14 Jim Klimov <jim@jimklimov.com>	32
2.97 2019-12-06 Jim Klimov <jim@jimklimov.com>	32
2.98 2019-04-12 Jim Klimov <jim@jimklimov.com>	32
2.99 2019-04-03 Jim Klimov <jim@jimklimov.com>	32
2.100 2019-02-20 Jim Klimov <jim@jimklimov.com>	32
2.101 2018-12-06 Jim Klimov <jim@jimklimov.com>	32
2.102 2018-10-05 Jim Klimov <jim@jimklimov.com>	33
2.103 2018-09-28 Jim Klimov <jim@jimklimov.com>	33
2.104 2018-09-27 Jim Klimov <jim@jimklimov.com>	33
2.105 2018-09-26 Jim Klimov <jim@jimklimov.com>	33
2.106 2018-09-06 Jim Klimov <jim@jimklimov.com>	33
2.107 2018-09-05 Jim Klimov <jim@jimklimov.com>	34
2.108 2018-09-03 Jim Klimov <jim@jimklimov.com>	34
2.109 2018-01-15 Jim Klimov <jim@jimklimov.com>	34
2.110 2018-01-03 Jim Klimov <jim@jimklimov.com>	34
2.111 2018-01-02 Jim Klimov <jim@jimklimov.com>	34
2.112 2017-12-31 Jim Klimov <jim@jimklimov.com>	34

2.113	2017-10-19 Jim Klimov <jim@jimklimov.com>	34
2.114	2017-10-13 Jim Klimov <jim@jimklimov.com>	34
2.115	2017-04-12 Jim Klimov <jim@jimklimov.com>	34
2.116	2016-10-06 Arnaud Quette <arnaud.quette@free.fr>	35
2.117	2016-09-22 Jim Klimov <jim@jimklimov.com>	35
2.118	2016-09-14 Jim Klimov <jim@jimklimov.com>	35
2.119	2016-08-19 Jim Klimov <jim@jimklimov.com>	35
2.120	2016-08-18 Jim Klimov <jim@jimklimov.com>	36

## 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).

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**Note**

This change log section represents git commits in range *v2.8.4..HEAD* (commits *434cb36a3..130826c72*).

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### 2.1 2025-11-22 Jim Klimov <jimklimov+nut@gmail.com>

- Makefile.am: shellcheck-nde: be sure to test freshly generated script text
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, NEWS.adoc: revise message logging in the script [[#3194](#)]

### 2.2 2025-11-21 Jim Klimov <jimklimov+nut@gmail.com>

- docs/man/nut.txt: update sentence markup; expand on built-in vs configurable use of user/group accounts at run-time
- docs/common.xsl, docs/man/asciidoc.conf.in: inherit style of anchorjs permalinks from the (heading) element they are in [[#3185](#)]
- drivers/tripplite\_usb.c, NEWS.adoc: bump the version and add news entry for PR [#3192](#)

### 2.3 2025-11-20 rewsssiestedbo <48805403+rewsssiestedbo@users.noreply.github.com>

- drivers/tripplite\_usb.c: Update tripplite\_usb.c to fix issue 3191 Use correct value (DEFAULT\_UPSID) for the actual unit\_id default value instead of a 32-bit -1 value. DEFAULT\_UPSID is 65535, or a 16-bit -1 value.

### 2.4 2025-11-20 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/nutdrv\_qx\_masterguard.c: driver/nutdrv\_qx\_masterguard.c: bump version [[#3181](#)]

### 2.5 2025-11-19 Jim Klimov <jimklimov+nut@gmail.com>

- docs/Makefile.am, Makefile.am, NEWS.adoc: introduce SPELLCHECK\_QUICK=true toggle for interactive mode to not re-check documents that passed with older nut.dict Follow-up to [#2871](#)
- docs/common.xsl, docs/man/asciidoc.conf.in, COPYING, NEWS.adoc, docs/nut.dict: stash a copy of "AnchorJS - v5.0.0 - 2023-01-18" to add permalinks to HTML sections [[#3185](#)] One for docbook ⇒ large HTML (single and chunked docs, technically also PDF but it will likely ignore the JavaScript or not see the tags where it goes), another for manpages via xhtml. Closes: [#3185](#)

### 2.6 2025-11-17 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: add British "ageing" for the keyword on the progress in getting old [[#3181](#)]
- docs/new-drivers.txt, docs/nut.dict: docs/new-drivers.txt: document addvar, getval and testvar, and nut\_usb\_addvars (and planned ser/modbus siblings) [[#2419](#), [#2748](#)] Documentation addition triggered by discussion in [#3181](#)

## 2.7 2025-11-12 **atanas-vladimirov <34871743+atanas-vladimirov@users.noreply.github.com>**

- NEWS.adoc: Update the PR number.

## 2.8 2025-11-12 **Jim Klimov <jimklimov+nut@gmail.com>**

- NEWS.adoc: formatting and typo fixes for masterguard QX updates [[#3181](#)]
- UPGRADING.adoc: new \*.html.sample templates to consider [[#3180](#)]
- clients/upsclient.c: upscli\_splitaddr(): highlight that currently a "port" must be numeric
- clients/upsc.c: return valid JSON documents also in case of error [[#3178](#)]
- clients/Makefile.am, common/Makefile.am, include/Makefile.am, {common => include}/strjson.h: includes/strjson.h: keep common headers in one place [[#3178](#)]
- clients/Makefile.am: limit use of libcommonstrjson.la to upsc and upsstats.cgi [[#3178](#)]
- .github/workflows/01-make-dist.yml: shorten workflow name, move details into job name [[#1400](#)] The workflow name is a shared prefix now for the job itself and for final "URL" entry that poses as a GHA check result. A prefix too long hides valuable data, especially in the latter case.

## 2.9 2025-11-12 **Atanas Vladimirov <vladimirov.atanas@gmail.com>**

- NEWS.adoc, data/cmdvartab, docs/man/nutdrv\_qx.txt, docs/nut-names.txt, docs/nut.dict, drivers/nutdrv\_qx\_masterguard.c: nutdrv\_qx\_masterguard: Adds a clear.fault.record instant command Also adds two experimental variables: - battery.ageing.factor ("Battery ageing factor in promille) and - battery.calibration.factor (Battery calibration factor in percent). Tested on A1000 and A2000 units
- NEWS.adoc: Update the PR number.
- NEWS.adoc, conf/upsstats-single.html.sample, conf/upsstats.html.sample: upsstats\*.html.sample: Enhance model detection in upsstats HTML templates. Some devices lack ups.model, causing the CGI to incorrectly report "Not supported".
- clients/Makefile.am: Make sure libcommonstrjson.la dependencies exist

## 2.10 2025-11-11 **Jim Klimov <jimklimov+nut@gmail.com>**

- .github/workflows/01-make-dist.yml: Create new GH Check report via shell/cURL [[#1400](#)]
- .github/workflows/01-make-dist.yml, NEWS.adoc, docs/download.txt: drop experiments with updates of GH Check reports, and noise with PR/commit comments - leave just a new GH Check entry with text of the URL (and link to details page with clickable URL) [[#1400](#)]
- clients/upsmon.c, scripts/systemd/nutshutdown.in: comments to clarify that POWERDOWNFLAG can happen on both NUT servers and pure client machines
- configure.ac, NEWS.adoc: align British vs Americanish English spelling [[#1400](#)]
- clients/upsstats.c: json\_escape(): reduce the char value range-check [[#3171](#)] Avoid comparison is always true due to limited range of data type warning.

**2.11 2025-11-11 Atanas Vladimirov <vladimirov.atanas@gmail.com>**

- common/strjson.c, common/strjson.h: strjson.c, strjson.h: Add newline at end of files
- NEWS.adoc: Update the PR number.
- Makefile.am, NEWS.adoc, clients/Makefile.am, clients/upsc.c, clients/upsstats.c, common/Makefile.am, common/strjson.c, common/strjson.h, docs/man/upsc.txt: upsc: Add -j option for JSON output This commit introduces a new -j command-line flag to upsc to provide machine-readable JSON output for all operating modes. To support this and share logic with upsstats, the JSON string escaping logic has been refactored into a new, reusable module: - A new helper function json\_print\_esc() now lives in common/strjson.c - common/Makefile.am builds this as a new libcommonstrjson library. - clients/Makefile.am links both upsc and upsstats against this new library and adds the common/ include path. - upsstats.c is updated to use the shared json\_print\_esc() function.

**2.12 2025-11-11 Andrew J. Kroll <xxxajk@gmail.com>**

- scripts/python/app/NUT-Monitor-py2gtk2.in, scripts/python/app/NUT-Monitor-py3qt5.in: fix notification spamming

**2.13 2025-11-10 Jim Klimov <jimklimov+nut@gmail.com>**

- .github/workflows/01-make-dist.yml: PoC with LouisBrunner/checks-action to change the action/check entry itself (as alternative to PR/commit comments) [#1400]
- clients/upsstats.c: printf("%x") requires an UNSIGNED int argument [#3171]
- UPGRADING.adoc: configure script would now probe the OS for more user and group account names [#3173]
- configure.ac, NEWS.adoc: warn if nobody or nogroup end up being used for a build [#3173]
- configure.ac, NEWS.adoc, docs/configure.txt: support more default user/group account names that may be defined in the OS [#3173]
- NEWS.adoc: rephrase the upsstats+JSON entry [#3171]

**2.14 2025-11-10 Atanas Vladimirov <vladimirov.atanas@gmail.com>**

- docs/man/upsstats.cgi.txt: Use devices instead of upses.

**2.15 2025-11-09 Jim Klimov <jimklimov+nut@gmail.com>**

- server/sstate.c, NEWS.adoc: wait a second before declaring UPS data stale [#661]
- docs/download.txt: align British vs Americanish English spelling [#1400]
- .github/workflows/01-make-dist.yml: drop MAKE\_DIST\_TOKEN [#1400]
- .github/workflows/01-make-dist.yml: drop commented-away permissions [#1400]
- docs/download.txt: revise notes on snapshots (not only GitHub now) and build types (git/dist) [#1400]

**2.16 2025-11-09 Atanas Vladimirov <vladimirov.atanas@gmail.com>**

- NEWS.adoc, clients/upsstats.c, docs/man/upsstats.cgi.txt: upsstats: Add JSON output mode via ?json parameter When the ?json (or &json) parameter is added to the URL, upsstats.cgi will now bypass all HTML template processing. Instead, it returns a "Content-Type: application/json" response containing the full data for the requested UPS(es), including all variables, raw status, and parsed status. This provides a modern API for external monitoring tools without affecting the existing HTML template functionality.

**2.17 2025-11-08 Jim Klimov <jimklimov+nut@gmail.com>**

- docs/download.txt: move notes about building from source upwards [#1400]
- docs/download.txt: add intro for development sources chapter [#1400]
- NEWS.adoc: update about links to automatic dist tarballs [#1400]
- .github/workflows/01-make-dist.yml: drop superfluous comment-posting action [#1400]
- .github/workflows/01-make-dist.yml: update comments [#1400]
- .github/workflows/01-make-dist.yml: extend to contents:write permission for commit comments [#1400]
- .github/workflows/01-make-dist.yml: add links for running a custom container inside GHA worker [#1400]
- .github/workflows/01-make-dist.yml: expand criteria for comment posting [#1400]
- .github/workflows/01-make-dist.yml: debug-print inputs for substitution [#1400]
- .github/workflows/01-make-dist.yml: try to blend in the github.event.pull\_request.number to subst-github-ref-name [#1400]
- .github/workflows/01-make-dist.yml: do not fail if we can not post the commit comment [#1400]
- .github/workflows/01-make-dist.yml: rephrase initial sticky note for the PR [#1400]
- .github/workflows/01-make-dist.yml: attempt to post a comment for commit itself [#1400]
- .github/workflows/01-make-dist.yml: uncomment attempts to post comments with PR context only [#1400]
- .github/workflows/01-make-dist.yml: drop the list of wider permissions we experimented with [#1400]
- .github/workflows/01-make-dist.yml: comment away one of the ways to post a sticky comment; both seem to work well [#1400]
- .github/workflows/01-make-dist.yml: try to report the more correct Git SHA with the tarball link [#1400]
- NEWS.adoc: fix asciidoc markup for upsset improvement [#3164]
- .github/workflows/01-make-dist.yml: subst-github-ref-name prefer github.head\_ref (if set) since github.ref\_name for pull\_request\_target reports the target branch [#1400]
- drivers/nhs\_ser.c, NEWS.adoc: limit the use of baud rates by what the OS does declare [#3163]

**2.18 2025-11-08 Atanas Vladimirov <vladimirov.atanas@gmail.com>**

- NEWS.adoc, clients/upsset.c: upsset.c: Recognize RANGE NUMBER and NUMBER types. Tested on Masterguard A1000 and A2000 units.

**2.19 2025-11-07 Jim Klimov <jimklimov+nut@gmail.com>**

- docs/qa-guide.adoc: expand chapter on OBS [#1209]
- .github/workflows/01-make-dist.yml: fix message [#1400]
- .github/workflows/01-make-dist.yml: introduce "make distcheck-completeness" to verify that our dist archives exactly reproduce themselves [#2829]
- Makefile.am, NEWS.adoc: introduce "make distcheck-completeness" to verify that our dist archives exactly reproduce themselves [#2829]

- .github/workflows/01-make-dist.yml: refer to links from GH checks entry title [[#1400](#)] We have hit some snags about changing the artifact history or adding PR comments, at least before initially merging the first PR that adds this workflow (so pull\_request\_target has something to run from the master branch at all). Even if this turns out to be the end of the road, at least this way we can let people know where to find those generated tarballs :)
- .github/workflows/01-make-dist.yml: try pull\_request\_target again, to use context of the main repo for actions [[#1400](#)]
- .github/workflows/01-make-dist.yml: Revert ".github/workflows/01-make-dist.yml: add permissions for delete artifact [[#1400](#)]" This reverts commit 621e0e71aed71da21521ecf7784ece4b892720d0.
- .github/workflows/01-make-dist.yml: try using a custom MAKE\_DIST\_TOKEN [[#1400](#)]
- .github/workflows/01-make-dist.yml: add permissions for delete artifact [[#1400](#)]
- scripts/obs/debian.control: Revert "scripts/obs/debian.control: dumb down the libmodbus requirement [[#1209](#)]" This reverts commit 21e5d7a79d8e3432c6382252c667eae3fb9e6223. Dropped NUT CI OBS support for platforms it still refuses to build instead.
- scripts/obs/debian.control: Revert "scripts/obs/debian.control: dumb down the libi2c requirement [[#1209](#)]" This reverts commit 313e13e8fcae4f59d74ed20da7709d286dee14b7. Dropped NUT CI OBS support for platforms it still refuses to build instead.
- scripts/obs/nut.spec: Revert "scripts/obs/nut.spec: try to constrain udev to non-RHEL [[#1209](#)]" This reverts commit 2b1a596f364ab172. Dropped NUT CI OBS support for platforms it still refuses to build instead.
- scripts/obs/nut.spec: try to constrain udev to non-RHEL [[#1209](#)]
- scripts/obs/debian.control: dumb down the libi2c requirement [[#1209](#)]
- scripts/obs/debian.control: dumb down the libmodbus requirement [[#1209](#)] Do not constrain the versions so it can build on Debian 9 and 10; Note that for USB support we would need our fork anyway (until it gets merged to upstream, which may take years at their pace).
- scripts/obs/nut.spec: more constraints about what is available in what distro versions [[#1209](#)]
- scripts/obs/nut.spec: libltdl-devel (nut-scanner and consumers) and libgd-devel (cgi) are not ubiquitous [[#1209](#)]
- scripts/obs/nut.spec: fix "distro\_version" numbers (some have extra digits for sub-releases) [[#1209](#)]
- scripts/obs/\_config: no ccache in RHEL\_7 it seems [[#1209](#)]
- scripts/obs/\_config: CentOS 10 depends on "either of" util-linux(-core), so we must pick one [[#1209](#)]
- scripts/obs/nut.spec: define NUTPKG\_WITH\_<DEPNAME> when we require the deps or not, based on distro/release [[#1209](#)]
- scripts/obs/nut.spec: turn package availability/requirement for NUTPKG\_WITH\_\* upside down [[#1209](#)]
- .github/workflows/01-make-dist.yml: comment about substitute-string-action [[#1400](#)]
- .github/workflows/01-make-dist.yml: try "issues: write" into permissions [[#1400](#)]
- .github/workflows/01-make-dist.yml: try more ways to post a PR comment [[#1400](#)]

## 2.20 2025-11-06 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- .github/workflows/01-make-dist.yml: try to use GITHUB\_TOKEN when posting a PR comment - v2 [[#1400](#)]
- .github/workflows/01-make-dist.yml: define permissions for auto-generated GITHUB\_TOKEN differently [[#1400](#)]
- .github/workflows/01-make-dist.yml: no fatal problem if we can not delete an older tarball [[#1400](#)]
- .github/workflows/01-make-dist.yml: try to use GITHUB\_TOKEN when posting a PR comment [[#1400](#)]
- .github/workflows/01-make-dist.yml: do not immediately fail the CI job if we can not post actions-comment-pull-request (e.g. in a NUT fork build) [[#1400](#)]

- .github/workflows/01-make-dist.yml: after all use pull\_request not pull\_request\_target so there is an attached PR to comment into [#1400]
- .github/workflows/01-make-dist.yml: allow to fire on more branches [#1400]
- .github/workflows/01-make-dist.yml: try to fix permissions for PR commenter [#1400]
- .github/workflows/01-make-dist.yml: fix step IDs [#1400]
- .github/workflows/01-make-dist.yml: "Try to get more Git metadata" only if "git describe" is initially useless [#1400]
- .github/workflows/01-make-dist.yml: tell actions/checkout to fetch more git history right away [#1400]
- .github/workflows/01-make-dist.yml: "Try to get more Git metadata" earlier so we can debug it better [#1400]
- .github/workflows/01-make-dist.yml: typo fix (renamed subst-github-ref-name step) [#1400]
- .github/workflows/01-make-dist.yml: flip TEST\_REF for branches and commits (prNNNN/merge) alike [#1400]
- .github/workflows/01-make-dist.yml: different var for built SHA [#1400]
- .github/workflows/01-make-dist.yml: more trickery to make git-describe work [#1400]
- .github/workflows/01-make-dist.yml: debug subst-github-ref-name [#1400]
- .github/workflows/01-make-dist.yml: try to post a link to tarballs on build page - v2 (message/comment in PRs) [#1400]
- .github/workflows/01-make-dist.yml: there is no env.GITHUB\_HEAD\_REF [#1400]
- .github/workflows/01-make-dist.yml: act on tags too [#1400]
- .github/workflows/01-make-dist.yml: pull whole repo if git describe fails [#1400]
- .github/workflows/01-make-dist.yml: try to post a link to tarballs on build page [#1400]
- .github/workflows/01-make-dist.yml: fix GHA scripting syntax; update comments [#1400]
- .github/workflows/01-make-dist.yml: more debugging of git workspace [#1400]
- .github/workflows/01-make-dist.yml: do not make dist-sig (via dist-files) in the CI job [#1400]
- .github/workflows/01-make-dist.yml, NEWS.adoc: introduce a CI job to maintain dist tarballs of recent iterations [#1400, #2829]
- .github/workflows/{codeql.yml ⇒ 05-codeql.yml}, .github/workflows/{PyNUTClient.yml ⇒ 08-PyNUTClient.yml}: .github/-workflows: re-number the jobs to hopefully impact processing order on GHA farm [#1400]
- Makefile.am, NEWS.adoc, docs/maintainer-guide.txt: introduce make dist-docs [#1400]
- Makefile.am: dist-hook: report if DISTing VERSION\_FORCED\* files
- .github/workflows/codeql.yml: fix typo for ccache key name

## 2.21 2025-11-05 Jim Klimov <jimklimov+nut@gmail.com>

- common/common.c: do not track upsnotify\_reported\_extend\_timeout\_systemd, we do not limit by it anyway [#3003] ... and in the few cases this systemd notification is used, we do want to see it all
- common/common.c, NEWS.adoc: do not comment on "watchdog situation logged once" if we do not actually log it before (visibly) [#3157]

**2.22 2025-11-03 Jim Klimov <jimklimov+nut@gmail.com>**

- NEWS.adoc, drivers/dstate.c, drivers/dstate.h, drivers/main.c, drivers/main.h: drivers/main.{c,h}, drivers/dstate.{c,h}, NEWS.adoc: track CHRG/DISCHRG reality in all drivers, verify against what the device/protocol says [#3146]
- drivers/usbhid-ups.c: only consider current\_charge > 0 to rule out a conversion error [#3156]
- drivers/usbhid-ups.c: fix indentations
- NEWS.adoc, common/state.c, docs/nut.dict, include/state.h: common/state.c, include/state.h, NEWS.adoc: refactor with diff-time\_st\_tree\_timespec() [#3156]
- NEWS.adoc, drivers/dstate.c, drivers/dstate.h, drivers/main.c, drivers/main.h: drivers/main.{c,h}, drivers/dstate.{c,h}, NEWS.adoc: track previous\_battery\_charge\_value and previous\_battery\_charge\_timestamp [#3146]
- clients/upsmon.c, include/common.h: tone down definition of "infinity" by a notch [#3003]

**2.23 2025-10-31 Jim Klimov <jimklimov+nut@gmail.com>**

- NEWS.adoc, drivers/usbhid-ups.c, drivers/usbhid-ups.h: drivers/usbhid-ups.{c,h}, NEWS.adoc: consider FULLYCHARGED and NOTFULLYCHARGED separately, because many subdrivers report neither; fall back to checking battery.charge=?100 to set CHRG flag [#3146]

**2.24 2025-10-30 NOV <149171388+NohanV@users.noreply.github.com>**

- drivers/cyberpower-mib.c: Add SNMP info for ups.realpower

**2.25 2025-10-30 Jim Klimov <jimklimov+nut@gmail.com>**

- drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c: nut\_libusb\_open(): drop commented-away "goto next\_device" now that we have a loop and "continue" to try another rdlens [#3136]
- drivers/cyberpower-mib.c: bump CYBERPOWER\_MIB\_VERSION for added ups.realpower [#3154]
- configure.ac, scripts/systemd/nut-monitor.service.in: introduce SYSTEMD\_DAEMON\_TIMEOUT\_STOP\_UPSMON substitution [#3003]
- clients/upsmon.c: use upsnotify(NOTIFY\_STATE\_EXTEND\_TIMEOUT, ...) to protect from systemd or similar framework killing us by timeout [#3033]
- common/common.c, include/common.h, NEWS.adoc: Introduced NOTIFY\_STATE\_EXTEND\_TIMEOUT option and relevant variables [#3003]
- common/common.c: upsnotify(): comment since which systemd versions different features are supported

**2.26 2025-10-29 Atanas Vladimirov <vladimirov.atanas@gmail.com>**

- docs/man/nutdrv\_qx.txt: Fix the formatting of VOLTRONIC-AXPERT UNITS

**2.27 2025-10-27 Jim Klimov <jimklimov+nut@gmail.com>**

- clients/upsmon.c, NEWS.adoc: doshutdown() etc: tickle (systemd) watchdog instead of long quietness when shutting down [#3003]
- NEWS.adoc, drivers/libusb0.c, drivers/libusb1.c: drivers/libusb{0,1}.c, NEWS.adoc: if the tried "rdlen" did not succeed, fall back to the other value we had in mind [#3136] In libusb1.c also fix printout of rdlen variables from %d to %PRIi32

## 2.28 2025-10-26 Jim Klimov <jimklimov+nut@gmail.com>

- .obs/workflows.yml: retarget to "home:networkupstools:\*" OBS project for now, and expand workflows for PRs, master iterations and tag releases [#1209]
- .obs/workflows.yml: extend workflow definition [#1209] Revised docs at [https://openbuildservice.org/help/manuals/obs-user-guide/cha-obs-scm-ci-workflow-integration#sec.obs.obs\\_scm\\_ci\\_workflow\\_integration.setup.token\\_authentication.how\\_to\\_authentication](https://openbuildservice.org/help/manuals/obs-user-guide/cha-obs-scm-ci-workflow-integration#sec.obs.obs_scm_ci_workflow_integration.setup.token_authentication.how_to_authentication)
- .obs/workflows.yml: Introduce an OBS workflow [#1209] Follow <https://openbuildservice.org/2021/05/31/scm-integration/instructions>

## 2.29 2025-10-25 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/obs/Makefile.am: fix EXTRA\_DIST list

## 2.30 2025-10-24 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, docs/nut.dict: NEWS.adoc: announce upstreamed OBS packaging recipes [#1209, #1316, #3144]
- tests/NIT/nit.sh: detect PYTHON from caller-provided PYTHON\_DEFAULT as fallback interpreter [#3130]
- configure.ac: on MacOS, also pass PYTHON\_DEFAULT via /usr/bin/env [#3130]
- tests/NIT/nit.sh: detect PYTHON from PY\_SHEBANG (or use a caller-provided one) as explicit interpreter [#3130] CircleCI does see the correct shebang and the script as executable, but apparently tries to call it as a shell script and fails. Maybe /Users/distiller/.pyenv/shims/python3.13 is broken though?.. Or we hit <https://github.com/NixOS/nixpkgs/issues/65351>?
- .circleci/config.yml: set DEBUG\_NIT=true to troubleshoot python test client runs [#3130]
- tests/NIT/nit.sh: shouldDebug(): extend with a variable that can be set specifically for this script
- .circleci/config.yml: opt out of blobless checkouts
- .circleci/config.yml: update from XCode-13.4.1 to XCode-16.4 Older releases are deprecated and to be removed in November:  
\* <https://circleci.com/changelog/deprecation-of-eol-xcode-versions/> \* <https://circleci.com/changelog/images/#filtered>
- tests/NIT/nit.sh: revise isTestablePython() possible outcomes [#3130]
- .github/workflows/PyNUTClient.yml: update to use PYTHON\_DEFAULT varname now expected by scripts/python/module-/Makefile.am [#3130]
- NEWS.adoc, UPGRADING.adoc: warn about renamed data/html{,cgi} source dir [#3049]
- lib/.gitignore, lib/libupsclient-config.in: lib//libupsclient-config.in, lib/.gitignore: README⇒README.adoc renamed a while ago
- NEWS.adoc, UPGRADING.adoc: warn about renamed data/html{,cgi} source dir [#3049]
- scripts/obs/debian.nut-cgi.docs: align with renaming of data/html ⇒ data/htmlcgi

## 2.31 2025-10-23 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, drivers/apc-hid.c, drivers/apc\_modbus.c, drivers/arduino-hid.c, drivers/bcmxcp\_usb.c, drivers/blazer\_usb.c, drivers/cps-hid.c, drivers/delta\_ups-hid.c, drivers/legrand-hid.c, drivers/liebert-hid.c, drivers/mge-hid.c, drivers/nutdrv\_atcl\_usb.c, drivers/richcomm\_usb.c: drivers/\*.c, NEWS.adoc: revised use of NUT macros for USB Vendor IDs [#3139]
- drivers/usb-common.h: update comment about USB\_DEVICE() macro
- drivers/nutdrv\_qx.c: use symbolic names for USB Vendor IDs [#3139]
- data/driver.list.in: add Ippon Innova TAE 1000 [#3137, #3139]

- NEWS.adoc, UPGRADING.adoc, drivers/nutdrv\_qx.c: nutdrv\_qx.c: add USB ID based detection for innovatae protocol [#3137, #3139]
- NEWS.adoc, UPGRADING.adoc, docs/nut.dict: list new nutdrv\_qx\_innovatae protocol support [#issue 3137, PR #3139]

## 2.32 2025-10-22 Jim Klimov <jimklimov+nut@gmail.com>

- docs/nut.dict: update for NEWS of PR #3141
- m4/nut\_check\_libregex.m4, NEWS.adoc: Added configure script options for libregex tuning [#3140, #3049]
- NEWS.adoc, docs/nut.dict: update about logging the source of CFLAGS/LIBS/LDFLAGS values [#3049, #3140]
- m4/nut\_check\_libsystemd.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libpowerman.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libopenssl.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libnss.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libgpiod.m4: fix the var names we "unset" in the end [#3049]
- m4/nut\_check\_libneon.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libmodbus.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libnetsnmp.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libltdl.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libgpiod.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libavahi.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libusb.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libgd.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libfreeipmi.m4: track and report depCFLAGS\_SOURCE/depLIBS\_SOURCE consistently [#3049]
- m4/nut\_check\_libfreeipmi.m4: comment a reminder about numerous libs that we can resolve here (with one being correct) [#3049]
- m4/nut\_arg\_with.m4: revise brackets to pass arguments with commas in the value correctly [#3049]
- m4/nut\_arg\_with.m4: Revert "m4/nut\_arg\_with.m4: simplify with use of m4\_default() [#3049]" This reverts commit 9eba1eb885e9d2 seems autoconf (or myself) gets lost in the maze of m4\_default with or without brackets, especially when arguments with commas are involved.

## 2.33 2025-10-22 Atanas Vladimirov <vladimirov.atanas@gmail.com>

- NEWS.adoc, drivers/nutdrv\_qx\_masterguard.c: nutdrv\_qx\_masterguard: Bump MASTERGUARD\_VERSION to 0.04 And updates the NEWS.adoc in regards of PR [#3141] Tested on Masterguard A1000 and A2000 units.
- drivers/nutdrv\_qx\_masterguard.c: nutdrv\_qx\_masterguard: Makes the deep battery test command works The test.battery.start.deep (TUD) command requires the slave address as a parameter to function. Following the fix to masterguard\_add\_slaveaddr in the previous commit, this command can now be properly enabled. Tested on Masterguard A1000 and A2000 units.

## 2.34 2025-10-21 Viktor Drobot <linux776@gmail.com>

- drivers/nutdrv\_qx\_innovatae.c: More info about firmware version in bogus reply

## 2.35 2025-10-21 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc: update notes for #3049 and #3140
- ci\_build.sh: check more ARCH and BITS sources for illumos/Solaris pkgconfig path guessing
- m4/nut\_check\_libnetsnmp.m4: fix new --with-net-snmp-config=auto mode [#3049]
- NEWS.adoc: update entry with PR number
- m4/nut\_arg\_with.m4: NUT\_ARG\_WITH\_LIBOPTS\_CONFIGSCRIPT\_IMPLEMENT: drop extra brackets [#3049]
- m4/nut\_check\_libusb.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_check\_libnetsnmp.m4, m4/nut\_check\_libsystemd.m4: m4/nut\_check\_libnetsnmp.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_check\_libpowerman.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_check\_libopenssl.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_check\_pkgconfig.m4: refactor NUT\_ARG\_\* help and determination of --with-pkg-config [#3049]
- m4/nut\_check\_libnss.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_check\_libneon.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_check\_libmodbus.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_check\_libltdl.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- configure.ac, NEWS.adoc: there was never a scripts/devd/nut-usbups.rules.in (probably a copy-paste typo in NUT v2.8.0)
- configure.ac, scripts/devd/README.adoc: revise help and doc regarding FreeBSD devd snippet file installation
- m4/nut\_arg\_with.m4: simplify with use of m4\_default() [#3049]
- m4/nut\_check\_libgpiod.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_arg\_with.m4: extend NUT\_ARG\_WITH\_LIBOPTS\* with optional alternate spelling of project name for help text [#3049]
- configure.ac: rephrase help for (alt)pidpath [#3049]
- m4/nut\_check\_libgd.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_arg\_with.m4: add NUT\_ARG\_WITH\_LIBOPTS\_LIBS\_AS\_LDFLAGS and NUT\_ARG\_WITH\_LIBOPTS\_LDFLAGS for cosmetic completeness [#3049]
- m4/nut\_arg\_with.m4: rearrange NUT\_ARG\_WITH\_LIBOPTS\_INCLUDES and NUT\_ARG\_WITH\_LIBOPTS\_LIBS using renamed NUT\_ARG\_WITH\_LIBOPTS\_INVALID\_YESNO; use simpler NUT\_ARG\_WITH\_LIBOPTS for new NUT\_ARG\_WITH\_ methods [#3049]
- m4/nut\_check\_libfreeipmi.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]

## 2.36 2025-10-21 Atanas Vladimirov <vladimirov.atanas@gmail.com>

- drivers/nutdrv\_qx\_masterguard.c: nutdrv\_qx\_masterguard: Fix masterguard\_add\_slaveaddr return value. The masterguard\_add\_slaveaddr function, defined as a preprocess\_command handler, must return the length of the command string it has processed. It was incorrectly returning 0. This caused the main qx\_process function to see a 0-byte command length, resulting in a send: timeout (0) debug log and a failure to send the command to the UPS. This commit fixes the function to return the correct command length (which was already stored in the local variable l), resolving the bug for all commands that use the ,XX slave address placeholder. Tested on Masterguard A1000 and A2000 units.

**2.37 2025-10-20 Viktor Drobot <[linux776@gmail.com](mailto:linux776@gmail.com)>**

- docs/nut.dict: Forgot to add to dict
- 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\_innovatae.c, drivers/nutdrv\_qx\_innovatae.h: Basic Ippon Innova TAE support

**2.38 2025-10-20 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>**

- m4/nut\_check\_libavahi.m4: refactor to word the help and determine options via NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- m4/nut\_arg\_with.m4: introduce NUT\_ARG\_WITH\_LIBOPTS\* [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --with-CCACHE\_NAMESPACE [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --enable-extapi-enphase [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --with-user and --with-group (reword the latter) [#3049, #3120]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --with-valgrind [#3049]
- configure.ac: move SYSTEM\_AIX and CPU\_TYPE determination way up, to where we detect other aspects of the build target
- configure.ac: refactor NUT\_ARG\_\* help and determination of udev, hotplug, devd, freebsdquirksdir paths [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --with-augeas-lenses-dir [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --enable-cppunit [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of systemd paths [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of Solaris/illumos packaging options, fix a few logical mismatches [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of PKGCONFIGDIR [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --enable-strip (and actually fix a missed compiler family dependency) [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --enable-force-nut-version-header (and actually fix default report vs. setting) [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --with-logfacility [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --with-port [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --enable-check-NIT [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of --with-doc(s) and --with-docs-changelog\* tunables [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of DEFAULT\_MAN\_\* tunables [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of CGIDATAPATH [#3049]

**2.39 2025-10-19 Jim Klimov <jimklimov+nut@gmail.com>**

- Makefile.am, configure.ac, data/Makefile.am, data/{html ⇒ htmlcgi}/.gitignore, data/{html ⇒ htmlcgi}/Makefile.am, data/{html ⇒ htmlcgi}/README.adoc, data/{html ⇒ htmlcgi}/bottom.html, data/{html ⇒ htmlcgi}/header.html.in, data/{html ⇒ htmlcgi}/index.html, data/{html ⇒ htmlcgi}/nut-banner.png, docs/configure.txt, docs/nut.dict: configure.ac, \*.am: rename "htmldir" to "htmlcgidir", "data/html" to "data/htmlcgi", CGIPATH to CGIEXEC PATH, and tentatively HTMLPATH to CGIDATAPATH (and actually expose the latter two from configure script) [#3049]
- data/html/Makefile.am: ensure that HTML files for CGI are in dist tarball
- configure.ac: add separators between unrelated subjects, revise comments
- configure.ac: refactor NUT\_ARG\_\* help and determination of CGIPATH [#3049]
- NEWS.adoc, docs/man/nutdrv\_qx.txt: update regarding test.battery.start.low [#3135]

**2.40 2025-10-18 Atanas Vladimirov <vladimirov.atanas@gmail.com>**

- data/cmdvartab, docs/nut-names.txt, drivers/nutdrv\_qx\_masterguard.c: nutdrv\_qx\_masterguard: Adds battery test until battery low. The difference between the battery test until battery low and deep battery test is that the latter is actually a battery calibration test and needs some preconditions to be met, i.e. the load must be between 30% and 100% and the battery capacity is greater than 99%. Battery test until battery low can be started anytime. Tested on Masterguard A1000 and A2000 units.

**2.41 2025-10-17 Jim Klimov <jimklimov+nut@gmail.com>**

- configure.ac: refactor NUT\_ARG\_\* help and determination of DRVPATH [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of POWERDOWNFLAG [#3049]
- configure.ac: refactor NUT\_ARG\_\* help and determination of STATEPATH, PIDPATH and ALTPIDPATH [#3049]
- configure.ac: define "confdir-suffix" via 4-arg syntax of NUT\_ARG\_WITH; rephrase other confdir options to say =PATH ⇒ =DIRPATH [#3049]
- m4/nut\_arg\_with.m4: clarify that parentheses mean "default:" and \*\_SINGLEQUOTE values are "resolved from" [#3049]
- m4/nut\_arg\_with.m4: extend NUT\_ARG\_ENABLE and NUT\_ARG\_WITH to optionally accept one more (second) argument for "...=VALUES" [#3049]
- m4/nut\_arg\_with.m4: extend NUT\_ARG\_ENABLE\_CUSTOM\_DEFAULT\_HELP and NUT\_ARG\_WITH\_CUSTOM\_DEFAULT\_HELP to short-circuit \$5==\\$4 if \$5 is not specified [#3049]
- m4/nut\_arg\_with.m4: more uniquely name the conftemp variables [#3049]
- m4/nut\_arg\_with.m4: update comments [#3049]

**2.42 2025-10-16 Jim Klimov <jimklimov+nut@gmail.com>**

- configure.ac, m4/nut\_arg\_with.m4: extend newer NUT\_ARG\_WITH\_CUSTOM\_DEFAULT\_HELP, NUT\_ARG\_WITH\_EXPAND\_etc. methods to optionally print "--with-VARNAME=VALUES" formatted messages [#3049]
- m4/nut\_arg\_with.m4: fix passing of conftemp (non-verbatim per se) [#3049]
- configure.ac, m4/nut\_arg\_with.m4: m4/nut\_arg\_with.m4, configure.ac, NEWS.adoc: refactor with ability to provide custom representation for default value in AS\_HELP\_STRING message [#3049]
- configure.ac: fix typo in help message for --with-CCACHE\_NAMESPACE
- Makefile.am: install-as-root: fix typo after replacement of @VAR@ to \$(VAR) [#3131]

- Makefile.am, NEWS.adoc, UPGRADING.adoc, ci\_build.sh, conf/Makefile.am, configure.ac, docs/configure.txt, docs/man/apc\_modbu...  
docs/nut.dict, docs/packager-guide.txt, lib/libnutclient.pc.in, lib/libnutclientstub.pc.in, lib/libnutconf.pc.in, lib/libnutscan.pc.in, lib/libupsclient-config.in, lib/libupsclient.pc.in, scripts/Aix/nut-aix.spec.in, scripts/upsdrvsvctl/nut-driver-enumerator.sh.in: configure.ac, docs/configure.txt, lib/.pc.in, \*.am et al: introduce --with-confdir= options, separate delivery of sample configs [#3131]
- Makefile.am: install-as-root: use make variables for paths and package version [#3131]
- m4/nut\_check\_python.m4, scripts/Solaris/Makefile.am, scripts/Solaris/precheck.py.in, scripts/augeas/Makefile.am, scripts/augeas/gen...  
nutupsconf-aug.py.in, scripts/python/module/Makefile.am, scripts/python/module/PyNUT.py.in, scripts/python/module/test\_nutclient...  
tools/Makefile.am, tools/gitlog2changelog.py.in, tools/nut-snmpinfo.py.in: m4/nut\_check\_python.m4, \*.am, \*.py.in: introduce  
PYTHON\_DEFAULT to track the implementation to substitute into shebangs or use as tool calls [#1792]

#### 2.43 2025-10-15 Jim Klimov <jimklimov+nut@gmail.com>

- m4/nut\_check\_python.m4: separate NUT\_CHECK PYTHON\_DEFAULT\_BEST and NUT\_CHECK PYTHON\_INTERIM\_RESULT and implement discarding of "auto-prio" hits if another hit exists (yes, explicit, auto) [#1792] It seems AC\_REQUIRE() calls have priority over other code lines in a method, and get executed first - so using extra methods (also for clearer code base).
- docs/configure.txt: clarify --with-python\*=yes; fix markup [#1792]
- m4/nut\_check\_python.m4: separate NUT\_CHECK PYTHON\*\_SITE\_PACKAGES into dedicated methods, to honour forgetting of interpreters due to auto-prio [#1792]
- m4/nut\_check\_python.m4, NEWS.adoc, UPGRADING.adoc, INSTALL.nut.adoc, docs/configure.txt, docs/nut.dict: change default to auto-prioritize some one available python interpreter [#1792]

#### 2.44 2025-10-14 Jim Klimov <jimklimov+nut@gmail.com>

- ci\_build.sh: pkg-rpm\|pkg-spec: fix rpmbuild callout
- ci\_build.sh, scripts/obs/\_service, scripts/obs/{debian.nut.changes => nut.changes}: scripts/obs/nut.changes: isn't it a placeholder for RPM changelog?
- INSTALL.nut.adoc: mention some surprising configure options, like the many --with-python\* settings, and a --sysconfdir override [#1792]
- docs/configure.txt, docs/nut.dict: revise the section on --with-python\* settings [#1792]
- NEWS.adoc, configure.ac: configure.ac: warn if several python versions were AUTO-detected and configured [#1792]

#### 2.45 2025-10-13 Jim Klimov <jimklimov+nut@gmail.com>

- scripts/obs/debian.rules: make list-missing optional (absent in new cdbs)
- scripts/obs/debian.rules: do not mislead about lack of dh\_python2 due to our own tests
- scripts/obs/debian.rules: update for bleeding-edge CDBS that lacks many scripts
- docs/configure.txt: clarify that --with-group is barely used directly by daemons [#3120]
- Makefile.am: spellcheck-interactive: follow-up with a spellcheck-quick to soak up timestamp changes of the dictionary file
- drivers/snmp-ups.c: comment about us not parsing the port from device\_path
- configure.ac: when we suggest to "make" after "configure" is done, have a fallback if MAKE was not defined/exported
- NEWS.adoc: Revert "NEWS.adoc: Fallout of the refactoring of drivers to use shutdown.\* commands consistently [#1962]" This reverts commit 15bc72b0ae7952fe30b013b48eef7a6c9bf0a7 prepared problem log was not a problem after all.

- drivers/victronups.c: fix whitespace markup; translate comments
- drivers/victronups.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/usbhid-ups.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/powervar\_cx\_ser.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/powercom.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/pijuice.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/phoenixcontact\_modbus.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/oneac.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/mge-utalk.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/metasyss.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/masterguard.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/gamatronic.c: updrv\_initups(): update comments [[#1962](#)]
- drivers/everups.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/bicker\_ser.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/bestuferrups.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/bestfortress.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]

## 2.46 2025-10-12 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- drivers/asem.c, NEWS.adoc: reshuffle code — updrv\_initups() is for preparing comms; updrv\_initinfo() is for first using them [[#1962](#)]
- drivers/upscode2.c: fix indentation
- drivers/powervar\_cx.c, drivers/powervar\_cx.h: drivers/powervar\_cx.{c,h}: fix setcmd()→setvar() for consistency [[#1962](#)]
- NEWS.adoc, docs/nut.dict, drivers/powerp-bin.c, drivers/powerp-txt.c: drivers/powerp-{txt,bin}.c: install instcmd and setvar handlers [[#1962](#)]
- drivers/optiups.c: fix indentation broken in white-space refactoring of early NUT v2.8.x evolution [[#1962](#)]
- drivers/oneac.c: fix setcmd()→setvar() for consistency [[#1962](#)]
- drivers/metasyss.c: avoid spurious void return at end of updrv\_initinfo() [[#1962](#)]

- drivers/main.c: better log the progress for killpower via running driver instance
- drivers/riello\_ser.c: relocate methods to match structure of riello\_usb.c to ease the comparisons
- NEWS.adoc, drivers/riello\_ser.c, drivers/riello\_usb.c: drivers/riello\_{ser,usb}.c: refactor parse\_ups\_status() and do not constrain "shutdown.return" and "load.\*" INSTCMD with whether the UPS is known to be on battery or not [[#1962](#)]
- scripts/Solaris/Makefile.am: "target\_cpu=sparc" is inconclusive about binary bitness [[#3099](#)]
- NEWS.adoc: Fallout of the refactoring of drivers to use `shutdown . *` commands consistently [[#1962](#)]
- configure.ac: refactor echo of NUT\_SOURCE\_VERSION\_REPORT, and suggest to "make" after "configure" is done Many projects do this latter convenience for beginner users. Seems nice.

## 2.47 2025-10-11 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- NEWS.adoc, docs/man/apcupsd-ups.txt, docs/nut.dict, drivers/apcupsd-ups.c: drivers/apcupsd-ups.c, docs: migrate from `gethostbyname()` to `getaddrinfo()`; become IPv6 capable [[#1209](#)]
- drivers/apcupsd-ups.c: revise comments and markup
- drivers/apcupsd-ups.c: use `strrchr(device_path, :)` to look for LAST colon, since bare IPv6 addresses contain colons too [[#1209](#)]
- drivers/apcupsd-ups.c: update comments about default port 3551
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: avoid logging bogus-looking "OK" confirming undeclared activities [[#3099](#)]
- docs/config-notes.txt, docs/configure.txt, docs/man/nut.txt, docs/man/upsmon.conf.txt: clarify `/run` vs. `/var/run` [[#3099](#)]
- configure.ac, NEWS.adoc, UPGRADING.adoc: `PIDPATH` is now more strictly `/var/run`, unless `/run` is more preferable for good reason [[#3099](#)]

## 2.48 2025-10-10 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- scripts/obs/nut.spec: update comment about python locations
- scripts/obs/nut.spec: hide `%dir /var/log` (we do not own it), suffice to `mkdir` it in build area to match our logrotate configuration
- scripts/obs/nut.spec: nut-monitor requires python-base
- scripts/obs/\_config: track a copy of prjconf data
- scripts/obs/README.adoc: update notes on OBS prjconf
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: fix svccfg setprop for multiple DEPSVC FMRI [[#3099](#)] Co-authored-by: Nick Briggs <[nicholas.h.briggs@gmail.com](mailto:nicholas.h.briggs@gmail.com)>
- NEWS.adoc, UPGRADING.adoc, docs/nut.dict, m4/nut\_check\_python.m4: m4/nut\_check\_python.m4: try harder to report the "purelib" location as `PYTHON*_SITE_PACKAGES` [[#1209](#)]
- NEWS.adoc, docs/nut.dict, tests/NIT/Makefile.am, tests/NIT/nit.sh: tests/NIT/nit.sh, tests/NIT/Makefile.am, NEWS.adoc: let test runs started as root in under-provisioned environments tweak user/group to what is available [[#1209](#)]
- NEWS.adoc: one more Eaton USB ID supported [[#2380](#)]

2.49 2025-10-09 Jim Klimov <jimklimov+nut@gmail.com>

{obs ⇒ scripts/obs}/debian.libnutclientstub1.lintian-overrides, {obs ⇒ scripts/obs}/debian.libnutscan-dev.install, {obs ⇒ scripts/obs}/debian.libnutscan1.install, {obs ⇒ scripts/obs}/debian.libups-nut-perl.install, {obs ⇒ scripts/obs}/debian.libupsclient-dev.install, {obs ⇒ scripts/obs}/debian.libupsclient-dev.manpages, {obs ⇒ scripts/obs}/debian.libupsclient4.install, {obs ⇒ scripts/obs}/debian.nut-cgi.README.Debian, {obs ⇒ scripts/obs}/debian.nut-cgi.docs, {obs ⇒ scripts/obs}/debian.nut-cgi.install, {obs ⇒ scripts/obs}/debian.nut-cgi.manpages, {obs ⇒ scripts/obs}/debian.nut-cgi.postinst, {obs ⇒ scripts/obs}/debian.nut-cgi.postrm, {obs ⇒ scripts/obs}/debian.nut-client.init.in, {obs ⇒ scripts/obs}/debian.nut-client.install, {obs ⇒ scripts/obs}/debian.nu-client.links, {obs ⇒ scripts/obs}/debian.nut-client.lintian-overrides, {obs ⇒ scripts/obs}/debian.nut-client.maintscript, {obs ⇒ scripts/obs}/debian.nut-client.manpages, {obs ⇒ scripts/obs}/debian.nut-client.postinst, {obs ⇒ scripts/obs}/debian.nut-client.preinst, {obs ⇒ scripts/obs}/debian.nut-client.prerm, {obs ⇒ scripts/obs}/debian.nut-common.install, {obs ⇒ scripts/obs}/debian.common.postinst.in, {obs ⇒ scripts/obs}/debian.nut-common.prerm.in, {obs ⇒ scripts/obs}/debian.nut-common.tmpfiles.in, {obs ⇒ scripts/obs}/debian.nut-doc.doc-base.nut-developer-guide, {obs ⇒ scripts/obs}/debian.nut-doc.doc-base.nut-faq, {obs ⇒ scripts/obs}/debian.nut-doc.doc-base.nut-packager-guide, {obs ⇒ scripts/obs}/debian.nut-doc.doc-base.nut-user-manual, {obs ⇒ scripts/obs}/debian.nut-doc.install, {obs ⇒ scripts/obs}/debian.nut-ipmi.install, {obs ⇒ scripts/obs}/debian.nut-ipmi.manpag{obs ⇒ scripts/obs}/debian.nut-linux-i2c.install, {obs ⇒ scripts/obs}/debian.nut-linux-i2c.manpages, {obs ⇒ scripts/obs}/debian.nutmodbus.install, {obs ⇒ scripts/obs}/debian.nut-modbus.manpages, {obs ⇒ scripts/obs}/debian.nut-monitor.install, {obs ⇒ scripts/obs}/debian.nut-monitor.menu, {obs ⇒ scripts/obs}/debian.nut-monitor.xpm, {obs ⇒ scripts/obs}/debian.nut-powerman-pdu.install, {obs ⇒ scripts/obs}/debian.nut-powerman-pdu.manpages, {obs ⇒ scripts/obs}/debian.nut-server.dirs, {obs ⇒ scripts/obs}/debian.nut-server.init.in, {obs ⇒ scripts/obs}/debian.nut-server.install, {obs ⇒ scripts/obs}/debian.nut-server.manpages, {obs ⇒ scripts/obs}/debian.nut-server.postinst, {obs ⇒ scripts/obs}/debian.nut-server.postrm, {obs ⇒ scripts/obs}/debian.nut-server.preinst, {obs ⇒ scripts/obs}/debian.nut-server.prerm.in, {obs ⇒ scripts/obs}/debian.nut-snmp.docs, {obs ⇒ scripts/obs}/debian.snmp.install, {obs ⇒ scripts/obs}/debian.nut-snmp.manpages, {obs ⇒ scripts/obs}/debian.nut-xml.install, {obs ⇒ scripts/obs}/debian.xml.manpages, {obs ⇒ scripts/obs}/debian.nut.README.Debian, {obs ⇒ scripts/obs}/debian.nut.TODO.Debian, {obs ⇒ scripts/obs}/debian.nut.changes, {obs ⇒ scripts/obs}/debian.nut.docs, {obs ⇒ scripts/obs}/debian.python-nut.install, {obs ⇒ scripts/obs}/debian.rules, {obs ⇒ scripts/obs}/debian.series, {obs ⇒ scripts/obs}/debian.watch, {obs ⇒ scripts/obs}/nut.dsc, {obs ⇒ scripts/obs}/nut.spec, {obs ⇒ scripts/obs}/pkgsrc.obs: Move obs/ to scripts/obs/ for consistency with other helper code

- obs/nut.spec: shebangs: fix shell and sed syntax
- obs/nut.spec: abstract the DOCPATH as a spec-var
- obs/nut.spec: do not mention man1
- obs/nut.spec: abstract the LIBEXECPATH as a spec-var
- obs/nut.spec: reject found apache\_serverroot that is under /usr/share
- obs/nut.spec: announce where and how we rewrite shebangs
- obs/nut.spec: seems there is no "%if X != Y" syntax
- obs/nut.spec: comment about alias man pages seen as duplicate files in package
- obs/nut.spec: specify system locations we use via %dir
- obs/nut.spec: do not dump sockdebug and NDE script into /usr/libexec directly
- obs/nut.spec: avoid what looks like spec-var expansion in comments
- obs/debian.rules: try harder to detect python2/3 helper
- ci\_build.sh: pkg\*: pre-cleanup more
- ci\_build.sh: pkg-deb: clean away cbds temp leftovers
- ci\_build.sh: pkg-deb: install prereqs (TBD; optional?)
- ci\_build.sh: pkg-deb: force debuikd differently
- ci\_build.sh: pkg-deb: fix shell and sed syntax
- obs/Makefile.am, obs/control: obs/\*: drop "control" symlink

- ci\_build.sh, obs/Makefile.am, obs/{nut-linux-i2c.install ⇒ debian.nut-linux-i2c.install}, obs/{nut-linux-i2c.manpages ⇒ debian.nut-linux-i2c.manpages}, obs/{nut-modbus.install ⇒ debian.nut-modbus.install}, obs/{nut-modbus.manpages ⇒ debian.nut-modbus.manpages}: obs.\*.ci\_build.sh: rename debiam recipe files to standard pattern
- ci\_build.sh: wrap pkg-rpm and pkg-deb (PoC)
- obs/debian.rules: convince cdbs about dh\_python3 when it is the only viable option
- obs/nut.dsc, obs/debian.control: do not require "python-is-..." which confuses cdbs
- NEWS.adoc, UPGRADING.adoc: Drop git-tracked compile script
- Makefile.am: EXTRA\_DIST the autotools compile script
- .gitignore, compile: Drop git-tracked compile script

## 2.50 2025-10-08 Jim Klimov <jimklimov+nut@gmail.com>

- obs/nut.spec: reshuffle NUT\_SYSTEMD\_UNITS\_SERVICE\_TARGET definition
- obs/debian.rules: fix pkg-config search for systemd vars
- obs/debian.rules: fix iteration for debian \*.install fixup (DMF)
- obs/debian.rules: fix check for NUTPKG\_WITH\_DMF
- obs/debian.rules: search for systemd configs also in libsystemd
- obs/nut.spec: udev rules no longer under /etc - not a %config (hopefully)
- obs/nut.spec: fix rpm-var expansion for conditionals
- obs/debian.rules: fix sed with parentheses
- obs/nut.spec: only package docs/cables/\*.txt, not the whole builddir
- obs/nut.spec: address some concerns from rpmlint
- obs/nut.spec: %pre: try to groupadd to be sure
- obs/debian.rules: make NUTPKG\_WITH\_DMF optional (based on the branch we build)
- obs/debian.nut-cgi.docs: README renamed to \*.adoc
- obs/README.adoc, docs/nut.dict: update info about OBS recipes [[#1209](#)]
- obs/nut.spec: require basic tooling used in rpmlint checks
- obs/nut.spec: try another way of checking that apache\_serverroot is defined and not empty
- obs/debian.rules: bump SO\_MAJOR\_LIB\* vars and add libnutconf installation
- obs/nut.spec: comment about %(cmd) definitions
- obs/debian.rules: binary-install/nut-monitor: use dh\_python\* more clearly
- obs/debian.rules: fix a shell/make typo
- obs/nut.spec: try another way of checking that apache\_serverroot is defined and not empty
- obs/nut.spec: exclude in root package whatever we put into sub-packages (rpmbuild seems to duplicate this)
- obs/nut.spec: post: neuter faults of chown/chgrp/chmod (some rpmbuilds fail self-check due to lack of accounts)
- obs/nut.spec: update comments
- obs/nut.spec: actually detect ability to build NUTPKG\_WITH\_DMF (sources available or not in this branch)

- obs/nut.spec: only use apache\_serverroot if we can detect it; otherwise dump NUT CGI artifacts under our \_libexecdir and \_datadir
- NEWS.adoc, UPGRADING.adoc, docs/man/Makefile.am, .../{nutdrv\_siemens\_sitop.txt ⇒ nutdrv\_siemens-sitop.txt}: docs/man/nut sitop.txt, docs/man/Makefile.am, UPGRADING.adoc: Fixed man page naming for nutdrv\_siemens-sitop(.8) (dash vs. underscore) to match the driver program name [[#1209](#), [#545](#)]
- configure.ac, scripts/python/Makefile.am: Avoid "make install" writing PyNUT.py and test\_nutclient.py to same location twice
- drivers/mge-hid.c: add Eaton Ellipse PRO 5S1600 [[#2380](#)]

## 2.51 2025-10-07 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- obs/nut.spec: fix sub-package name for NUT-Monitor (GUI)
- obs/debian.nut-monitor.install: GUI glade files have moved
- obs/nut.spec: avoid "chown USER:GROUP" syntax
- obs/debian.nut.docs: update file name lists
- obs/nut.spec: only run udevadm where available
- obs/nut.spec: rename "GROUP" which tends to pull in package type string
- obs/nut.spec: deliver files that are built and installed but were not listed
- obs/debian.control: support several libusb implementations
- obs/debian.rules: do not run python directly anymore
- obs/debian.changelog, obs/nut.dsc: bump formal versioning
- obs/nut.spec: many docs files were renamed to \*.adoc
- obs/nut.spec: exclude DMF artifacts from main pkg only if NUTPKG\_WITH\_DMF in the first place
- obs/nut.spec: reword comment
- obs/nut.spec: hide dblatex
- obs/nut.spec: explicitly "Prefer" something when OBS sees we "have choice for (X or Y)"
- obs/nut.spec: do not call "python" directly
- obs/nut.spec: revise neon dependency
- obs/nut.spec: LUA only needed for DMF builds
- obs/nut.spec: fix typos; make cppunit-devel optional (not in RHEL7)
- obs/nut.spec: make TCP\_WRAPPERS builds optional (if package seems available to be installed - was obsoleted in many distros)
- obs/nut.spec: refactor BuildRequires to avoid catering to distro-specific macro names
- obs/nut.spec: make IPMI, AVAHI and POWERMAN builds optional (if package seems available to be installed)
- obs/nut.spec: make DMF builds and deliveries optional (currently off by default)
- obs/nut.spec: accept either httpd-devel or apache2-devel
- obs/nut.spec: accept either libusb-0.1 or 1.0
- obs/nut.spec: update heading metadata

- obs/nut.spec: expand python requirements
- clients/upssched.c: start\_timer(): drop unneeded NULLness checks [[#3105](#)]
- conf/upsmon.conf.sample.in: align NOTIFYFLAG samples with NOTIFYMSG definitions [[#3084](#)] Also helps NIT generate an upsmon.conf to report those events in tests.
- tests/NIT/upssched.conf.in: add handling for SHUTDOWN\_HOSTSYNC [[#3084](#)]
- docs/man/upsmon.txt, docs/nut.dict: introduce SHUTDOWN ACTIVITY WORKFLOW section [[#3003](#), [#3110](#)]
- docs/man/upsmon.txt: in SIMULATING POWER FAILURES section, refer to NIT scripts as a source of inspiration
- docs/man/upsmon.txt: from UPS CONNECTION TYPES AND UPSMON ROLES section, refer to TIMED SHUTDOWNS section
- docs/man/upsmon.txt: reword intro (and name) of UPS CONNECTION TYPES AND UPSMON ROLES section

## 2.52 2025-10-06 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- docs/man/upssched.txt: suggest using FSD notification for early shutdown activity on the upsmon primary system [[#3003](#)]
- docs/man/upssched.conf.txt, docs/man/upssched.txt: note that command execution is not async in upssched
- NEWS.adoc, clients/upsmon.c, clients/upsmon.h: clients/upsmon.{c,h}, NEWS.adoc: Make sure FSD notifications are always issued at latest when shutdown handling just starts (or earlier) [[#3003](#), [#3110](#)]
- ci\_build.sh: consider\_cleanup\_shortcut(): better react to changes of sources for configure script ... even if there is no Makefile yet
- scripts/misc/nut.bash\_completion.in: fix indentations
- configure.ac, scripts/Makefile.am, scripts/misc/.gitignore, scripts/misc/{nut.bash\_completion ⇒ nut.bash\_completion.in}: scripts/misc/nut.bash\_completion: convert to .in template to use TAIL\_ARGS\_FROM\_NTH\_LINE [[#3099](#)]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: use TAIL\_ARGS\_FROM\_NTH\_LINE [[#3099](#)]
- configure.ac: detect TAIL\_ARGS\_FROM\_NTH\_LINE [[#3099](#)]
- configure.ac: fix indent

## 2.53 2025-10-04 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- scripts/Solaris/postinstall.in: Update comments/messages for legacy init script usage on Solaris older than 10 [[#3099](#)]
- scripts/Solaris/preremove.in, scripts/Solaris/postinstall.in: quiesce upsdrvctl activity; add tweak-ability for debugging NUT programs in the install script context (possibly with custom package builds) [[#3099](#)]
- scripts/misc/nut.bash\_completion, scripts/Solaris/reset-ups-usb-solaris.sh.sample, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: avoid "tail -n \+/-NUM" syntax as unportable [[#3099](#)]
- .github/workflows/codeql.yml: disable ccache use for actual compilation, for CodeQL analysis to hook into compiler correctly

**2.54 2025-10-02 Jim Klimov <jimklimov+nut@gmail.com>**

- ci\_build.sh: fix typo in message
- ci\_build.sh: USE\_CONFIG\_SHELL at least from explicit caller envvar [#3099]
- ci\_build.sh: revise indentation
- clients/upssched.c: simplify loop processing [#3097]
- tests/NIT/upssched.conf.in: rename parameters passed to "EXECUTE" methods, for less confusing dev-testing logs [#3105]
- clients/upsmon.c: add debug logging to NOTIFYCMD (WIN32) [#3097]
- docs/man/upssched.txt: list common and unique options
- NEWS.adoc, clients/upssched-cmd, clients/upssched.c, conf/upssched.conf.sample.in, docs/man/upssched.conf.txt, docs/man/upssched.txt, scripts/misc/notifyme-debug: upssched: introduce passing of NOTIFYMSG to CMDSCRIPT [#3105]

**2.55 2025-10-01 Jim Klimov <jimklimov+nut@gmail.com>**

- Makefile.am: work around lack of "id -u" [#3099]
- ci\_build.sh: detect\_platform\_PKG\_CONFIG\_PATH\_and\_FLAGS(): fix use of PKG\_CONFIG variable [#3099]
- ci\_build.sh: work around NCPUS prefixed with white-space [#3099]
- ci\_build.sh: work around lack of "find -maxdepth" [#3099]
- scripts/python/Makefile.am: add a fallback TOUPPER/TOLOWER implementation [#3099]
- ci\_build.sh, scripts/subdriver/gen-snmp-subdriver.sh, scripts/subdriver/gen-usbhid-subdriver.sh: add a fallback TOUPPER/TOLOWER implementation [#3099]
- configure.ac, m4/ax\_realpath.m4: introduce a fallback "mktemp" [#3099]
- scripts/subdriver/gen-usbhid-subdriver.sh: quote calls to mktemp [#3099]
- scripts/subdriver/gen-snmp-subdriver.sh, scripts/subdriver/gen-usbhid-subdriver.sh: add a fallback mktemp implementation [#3099]
- scripts/subdriver/gen-snmp-subdriver.sh: avoid grep for char classes, it is also not ubiquitous [#3099]
- scripts/subdriver/gen-snmp-subdriver.sh: avoid "GREP -e", it is also not ubiquitous [#3099]
- ci\_build.sh: avoid "GREP -e", it is also not ubiquitous [#3099]
- ci\_build.sh: fix GREP detection [#3099]
- tools/driver-list-format.sh: revise reaction to "diff" problems or successes [#3099]
- tools/driver-list-format.sh: sed class [:blank:] is not portable [#3099]
- tools/driver-list-format.sh, docs/docinfo.xml.sh.in: fallback for absent "diff -u" feature in pretty reporting [#3099]
- Makefile.am, tests/nut-driver-enumerator-test.sh: fallback for absent "diff -u" feature; use detected or passed EGREP [#3099]
- NEWS.adoc: update about portability fixes [#3099]
- tests/NIT/nit.sh: "id -u" is not ubiquitous, find fallback ways to check that I\_AM\_ROOT [#3099]
- ci\_build.sh, configure.ac, docs/Makefile.am, docs/man/Makefile.am, m4/ax\_realpath\_lib.m4, m4/nut\_check\_libnetsnmp.m4, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: Portability: in some shells, "if" only accepts the list of commands to run (there is no "if ! condition" support) - some better hidden cases [#3099]

- scripts/installer/common/aix\_init, scripts/installer/common/ipp-host-shutdown.sample, scripts/installer/common/ipp-os-shutdown: scripts/installer/\*: fix syntax to pass on old Solaris 8 /bin/sh [[#3099](#)]
- Makefile.am, ci\_build.sh, configure.ac, docs/Makefile.am, docs/man/Makefile.am, scripts/Windows/build-mingw-prereqs.sh, scripts/python/app/NUT-Monitor, scripts/python/module/Makefile.am, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in, tests/NIT/nit.sh, tools/Makefile.am, tools/gitlog2version.sh: Portability: in some shells, "if" only accepts the list of commands to run (there is no "if ! condition" support) [[#3099](#)]
- autogen.sh: do fail if configure script did not get generated [[#3099](#)]
- configure.ac, m4/ax\_check\_compile\_flag.m4, m4/ax\_realpath\_lib.m4, m4/nut\_check\_asciidoc.m4, m4/nut\_check\_aspell.m4, m4/nut\_check\_libmodbus.m4, m4/nut\_check\_libsystemd.m4, m4/nut\_check\_os.m4, m4/nut\_check\_pkgconfig.m4, m4/nut\_check\_python.m4/nut\_compiler\_family.m4: configure.ac, m4/\*.m4: try to use the detected GREP and EGREP tools [[#3099](#)]
- NEWS.adoc: add historic reference from [#3099](#) to [#1660](#)
- ci\_build.sh: handle a couple more "test -e" cases [[#3099](#)]
- docs/Makefile.am, docs/man/Makefile.am: handle a couple more "test -e" cases [[#3099](#)]
- scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: substitute plain GREP too [[#3099](#)]
- docs/man/Makefile.am: substitute plain GREP too [[#3099](#)]
- docs/Makefile.am: substitute plain GREP too [[#3099](#)]
- data/Makefile.am: export GREP or EGREP detected by configure, so further called scripts do not have to re-detect [[#3099](#)]
- tools/gitlog2version.sh: use or discover GREP to avoid literal "grep" [[#3099](#)]
- tools/driver-list-format.sh: use or discover EGREP to avoid literal "grep -E" [[#3099](#)]
- configure.ac: detect and export (E)GREP as early as possible [[#3099](#)]
- configure.ac: avoid "[ -e" or "test -e" which some older shells lack [[#3099](#)]
- tests/NIT/Makefile.am: nut\_version.h: export GREP or EGREP detected by configure, so further called scripts do not have to re-detect [[#3099](#)]
- include/Makefile.am: nut\_version.h: export GREP or EGREP detected by configure, so further called scripts do not have to re-detect [[#3099](#)]
- autogen.sh, ci\_build.sh: export GREP or EGREP if we detect them, so further called scripts do not have to re-detect [[#3099](#)]
- NEWS.adoc: summarize fixes for "grep" and "test" callouts [issue [#3099](#)]
- scripts/Solaris/postinstall.in: avoid "[ -e" or "test -e" which some older shells lack [[#3099](#)]
- m4/ax\_realpath.m4: protect against lack of "test -e" even better (some shells do crash trying) [[#3099](#)]
- docs/man/Makefile.am: avoid "[ -e" or "test -e" which some older shells lack [[#3099](#)]
- tests/NIT/nit.sh: use or discover EGREP to avoid literal "grep -E"; also GREP [[#3099](#)]
- tools/nut-dumpdiff.sh: use or discover EGREP to avoid literal "grep -E" [[#3099](#)]
- scripts/subdriver/gen-usbhid-subdriver.sh: use or discover EGREP to avoid literal "grep -E"; also GREP; avoid "grep -q" [[#3099](#)]
- scripts/subdriver/gen-snmp-subdriver.sh: use or discover EGREP to avoid literal "grep -E"; also GREP; avoid "grep -q" [[#3099](#)]
- scripts/Solaris/reset-ups-usb-solaris.sh.sample: roll back "grep -E" requirement [[#3099](#), [#1660](#)]
- ci\_build.sh: use or discover EGREP to avoid literal "grep -E" [[#3099](#)]
- drivers/nutdrv\_hashx.c: do not directly require "stdint.h" [[#3099](#)]

- drivers/Makefile.am: fix library search order for upsdrvctl build [#3099]
- autogen.sh: avoid "find -not ..." [#3099]
- autogen.sh: use or discover EGREP to avoid literal "grep -E" [#3099]
- autogen.sh: report about testing generated script syntax [#3099]
- tools/gitlog2version.sh: avoid shell substitution missing in older shells [#3099]
- tools/gitlog2version.sh: use or discover EGREP to avoid literal "grep -E" [#3099]
- tools/gitlog2version.sh: avoid "[ -e" or "test -e" which some older shells lack and do crash trying [#3099]
- docs/Makefile.am: avoid "[ -e" or "test -e" which some older shells lack [#3099]
- Makefile.am: avoid "[ -e" or "test -e" which some older shells lack [#3099]
- tests/NIT/README.adoc, tests/NIT/nit.sh: tests/NIT/nit.sh: avoid "[ -e" or "test -e" which some older shells lack [#3099]
- ci\_build.sh: avoid "[ -e" or "test -e" which some older shells lack [#3099]
- Makefile.am: EXTRA\_DIST some more useful files

## 2.56 2025-09-30 Jim Klimov <jimklimov+nut@gmail.com>

- docs/net-protocol.txt: log the TODO idea for "Logout pending" of some sort [#3086]
- docs/net-protocol.txt: cross-link LIST CLIENT and GET NUMLOGINS
- docs/net-protocol.txt: clarify intro about client libraries and other bindings, in-tree or third-party

## 2.57 2025-09-29 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/snmp-ups.c: allow to actually abort stuck init [#3101]
- drivers/snmp-ups.c: implement a non-trivial upsdrv\_tweak\_prognames() to allow aliasing with "snmp-ups-old" [#3101]
- NEWS.adoc, UPGRADING.adoc, docs/new-drivers.txt, docs/nut.dict, 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/bestferrups.c, drivers/bestups.c, drivers/bicker\_ser.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/failover.c, drivers/gamatronic.c, drivers/generic\_gpio\_common.c, drivers/generic\_gpio\_libgpiod.c, drivers/generic\_modbus.c, drivers/genericups.c, drivers/huawei-ups2000.c, drivers/hwmon\_ina219.c, drivers/isbmx.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/micsosol-apc.c, drivers/micsosol-common.c, drivers/netxml-ups.c, drivers/nhs\_ser.c, drivers/nut-ipmipsu.c, drivers/nutdrv\_atcl\_usb.c, drivers/nutdrv\_hashx.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/powervar(cx)\_ser.c, drivers/powervar(cx)\_usb.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/vedirect.c, drivers/victronups.c: drivers/\*, docs/new-drivers.txt, UPGRADING.adoc, NEWS.adoc: implement (no-op) upsdrv\_tweak\_prognames() and bump DRIVER\_VERSION numbers [#3101]
- drivers/main.c, drivers/main.h: drivers/\*: introduce upsdrv\_tweak\_prognames() hook [#3101]
- common/common.c, drivers/main.c: drivers/main.c: main(): use new sendsignalfnaliases() and sendsignalpidaliases() with prognames[] [#3101]
- NEWS.adoc, common/common.c, docs/nut.dict, include/common.h: common/common.c, include/common.h, NEWS.adoc: extend with plural sendsignalpidaliases() and sendsignalfnaliases() [#3101]

- drivers/main.c, drivers/main.h: drivers/main.{c,h}: allow to track several progrnames[] for acceptable driver program aliases [[#3101](#)]
- drivers/upsdrvctl.c: help(): fix global vs local arg name
- NEWS.adoc, common/common.c, docs/nut.dict, include/common.h: common/common.c, include/common.h, NEWS.adoc: extend with plural checkprocnames() and compareprocnames() [[#3101](#)]
- clients/upsmon.c: add comments to methods involved in shutdown to clarify who normally runs as root or not [[#3084](#)]

## 2.58 2025-09-28 Nick Briggs <[nicholas.h.briggs@gmail.com](mailto:nicholas.h.briggs@gmail.com)>

- Makefile.am, clients/Makefile.am, docs/Makefile.am, docs/docinfo.xml.sh.in, docs/man/Makefile.am, scripts/python/Makefile.am, scripts/systemd/nut-server.service.in, scripts/upsdrvsvcctl/nut-driver-enumerator.sh.in: Modifies Makefile.am files and some script ".in" files to use \$EGREP The standard Solaris 10/11 "/usr/bin/grep" does not accept the "-E" option. The autotools will set EGREP to the best available tool. Makefile.am that need EGREP functionality should use \$(EGREP) rather than directly calling "grep -E". Additionally, scripts that are generated to be installed as part of the package that need EGREP functionality should use the same tool that was located during configuration (assuming no cross-compilation with different EGREP tool availability). Closes [#3099](#)

## 2.59 2025-09-25 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- clients/upsmon.c: main loop: avoid sleep if FSD signal was raised during the long work cycle [[#3084](#)]
- clients/upsmon.c: user\_fsd(), main loop: try to ensure immediate reaction to FSD signals (interrupt a sleep() if needed) [[#3084](#)]
- docs/config-notes.txt: clarify that upsmon exit is now subject to SHUTDOWNEXIT setting [[#3084](#), [#2133](#)]
- NEWS.adoc, clients/upsmon.c, clients/upsmon.h, common/nutconf.cpp, common/nutwriter.cpp, conf/upsmon.conf.sample.in, docs/config-notes.txt, docs/man/upsmon.conf.txt, include/nutconf.hpp: clients/upsmon.h, conf/upsmon.conf.sample.in, etc: Introduced a SHUTDOWN\_HOSTSYNC notification message [[#3084](#)]
- conf/upsmon.conf.sample.in, docs/man/upsmon.conf.txt: revise documentation of FINALDELAY [[#3084](#)] Notably, both primary and secondary upsmon doshutdown() to handle FSD.
- clients/upsmon.c: doshutdown(), runparent(): debug-log just before executing shutdowncmd [[#3084](#)]
- clients/upsmon.c: runparent(): when waiting for a child to exit, and we know its PID, react to the end of specifically that process [[#3084](#)]
- clients/upsmon.c: doshutdown(), runparent(): Take note of start timestamp before calling SHUTDOWNCMD [[#3084](#)]
- clients/upsmon.c: doshutdown(): debug-log about waiting for FINALDELAY [[#3084](#)]
- clients/upsmon.c: set\_pdfflag(): log if POWERDOWNFLAG is not configured or is being written now [[#3084](#)]
- clients/upsmon.c: doshutdown(), runparent(): initialize "time(&start)" always [[#3084](#)] Avoid (semi-bogus) warnings from clang that variable 'start' may be uninitialized when used here in difftime() later on.
- clients/upsmon.c: truly deal with SHUTDOWNEXIT timeout as such, not a countdown [[#3084](#)]
- clients/upsmon.c: revise tracking pid\_pipechild when parent exits [[#3084](#)]
- clients/upsmon.c: fix whitespace markup in decls

**2.60 2025-09-24 Jim Klimov <jimklimov+nut@gmail.com>**

- clients/upsmon.c: add interaction between upsmon parent and child if SHUTDOWNEXIT is non-trivial [#3084]
- clients/upsmon.c: revise comments and log messages in forceshutdown(), doshutdown(), start\_pipe() [#3084]
- clients/upsmon.c: start\_pipe(), notify(): revise parent/child logging around the fork() [#3084]
- clients/upsmon.c, clients/upssched.c, drivers/upsdrvctl.c: call first setproctag() after setting up nut\_debug\_level [#3084]
- common/common.c, include/common.h: refactor and optimize getprocname(getpid()) calls with caching getmyprocname() and getmyprocbasename() [#3084]
- common/common.c, include/common.h, clients/upsmon.c, clients/upssched.c, drivers/upsdrvctl.c: move proctag\_cleanup() into common code and auto-register during first use of setproctag() [#3084]
- drivers/upsdrvctl.c, NEWS.adoc: introduce logging of self-assigned forked process tags [#3084]
- clients/upssched.c, NEWS.adoc: introduce logging of self-assigned forked process tags [#3084]
- clients/upsmon.c: improve debugging messages of forceshutdown() [#3084]
- clients/upsmon.c, NEWS.adoc: introduce logging of self-assigned forked process tags [#3084]
- common/common.c, include/common.h, NEWS.adoc, docs/nut.dict: introduce logging of self-assigned forked process tags [#3084]

**2.61 2025-09-23 Jim Klimov <jimklimov+nut@gmail.com>**

- ci\_build.sh: honour CI\_CCACHE\_USE=no more diligently
- NEWS.adoc, clients/upssched.c, conf/upssched.conf.sample.in, docs/man/upssched.conf.txt: clients/upssched.c: revise CANCEL-TIMER, introduce CANCEL-TIMER-MATCHED [#3097]
- scripts/misc/notifyme-debug: fix shell typo
- clients/upssched.c: fix START-TIMER-SHARED [#3097]
- clients/upssched.c: revise logging of timer events [#3097]

**2.62 2025-09-22 Jim Klimov <jimklimov+nut@gmail.com>**

- clients/upssched.c: start\_timer(): revise START-TIMER-SHARED behavior [#3097]
- clients/upssched.c: fix CI suggestions [#3097]
- clients/upssched.c: log-trace through, and fix, removetimers() and connection loss due to a recent bug there [#3097]
- clients/upssched.c: send\_to\_one(): improve debugging [#3097]
- clients/upssched.c: collect\_string(): fix the iteration logic [#3097]
- clients/upssched.c, docs/man/upssched.txt, NEWS.adoc: introduce upssched -l mode [#3097]
- docs/man/upssched.conf.txt: PIPEFN: chain the paragraphs of one description (indent them correctly) [#3097]
- NEWS.adoc, clients/upssched.c, conf/upssched.conf.sample.in, docs/man/upssched.conf.txt, tests/NIT/upssched.conf.in: clients/upssched.c, conf/upssched.conf.sample.in, docs/man/upssched.conf.txt, NEWS.adoc: introduce support for DEBUG\_MIN in upssched.conf [#3097]
- clients/upssched.c: update © header with major contributors
- clients/upssched.c: in messages that refer to upsmon, append its man page section
- clients/upssched.c, NEWS.adoc, conf/upssched.conf.sample.in, docs/man/upssched.conf.txt: let timers pass forward the UPSNAME and NOTIFYTYPE again - now with relevant values; introduce START-TIMER-SHARED [#3092, #3097]

**2.63 2025-09-21 Jim Klimov <jimklimov+nut@gmail.com>**

- clients/upssched.c: update comments [#3092]
- clients/upssched.c: rename global upsname ⇒ ups\_name to be on par with global notify\_type [#3092]
- docs/man/nut.txt, docs/nut.dict: describe NUT layer 3.5 - role of the drivers during shutdown
- docs/man/nut.txt: suggest more packaged user-names for NUT daemons
- NEWS.adoc, drivers/nutdrv\_qx.c, drivers/nutdrv\_qx.h: drivers/nutdrv\_qx.{c,h}, NEWS.adoc: define an internal QX\_FLAG\_MAPPING introduce analyze\_mapping\_usage() method [#3095]
- drivers/nutdrv\_qx.c: fix whitespace
- drivers/usbhid-ups.c: analyze\_mapping\_usage(): rephrase last suggestion with also checking and building recent NUT code [#3082, #3095]

**2.64 2025-09-19 Jim Klimov <jimklimov+nut@gmail.com>**

- drivers/snmp-ups.c, drivers/usbhid-ups.c: drivers/snmp-ups.c: account SU\_FLAG\_MAPPING\_HANDLED and do analyze\_mapping [#3095]
- NEWS.adoc, drivers/snmp-ups.h: drivers/snmp-ups.{c,h}, NEWS.adoc: define an internal SU\_FLAG\_MAPPING\_HANDLED [#3095]
- drivers/snmp-ups.c: fix markup
- drivers/snmp-ups.h: modernize a few comments
- drivers/snmp-ups.c: suggest in log how to improve a driver where only IETF auto-matched [#3095]
- drivers/hidtypes.h: update a comment [#3082]
- drivers/usbhid-ups.c: fix whitespace
- drivers/usbhid-ups.c: offload analyze\_mapping\_usage() to a method [#3082, #3095] Note the activity is now still limited to when debug logging is enabled.

**2.65 2025-09-18 Jim Klimov <jimklimov+nut@gmail.com>**

- drivers/usbhid-ups.c, NEWS.adoc: suggest in log how to improve a driver with too few mappings defined/used [#3082]
- NEWS.adoc, docs/ci-farm-do-setup.adoc, docs/ci-farm-lxc-setup.txt, docs/config-notes.txt, docs/config-prereqs.txt, docs/configure.txt, docs/daisychain.txt, docs/design.txt, docs/documentation.txt, docs/download.txt, docs/features.txt, docs/hid-subdrivers.txt, docs/net-protocol.txt, docs/new-clients.txt, docs/new-drivers.txt, docs/nut-names.txt, docs/nut-versioning.adoc, docs/nutdrv\_qx-subdrivers.txt, docs/outlets.txt, docs/scheduling.txt, docs/security.txt, docs/snmp-subdrivers.txt, docs/sock-protocol.txt, docs/support.txt: docs/\*:txt: add asciidoc comments with links to nut-website rendered contents of most interesting pages
- docs/maintainer-guide.txt: avoid pushing final release tags to upstream more than once, really!
- scripts/Makefile.am: do not EXTRA\_DIST the generated scripts/Windows/Makefile — the .in template suffices Thanks to @gdt for the heads-up.

**2.66 2025-09-12 Jim Klimov <jimklimov+nut@gmail.com>**

- clients/upsmon.c: doshutdown(): log more loudly that exit\_flag is raised, so shutdownexitdelay does not apply currently [#3084]

**2.67 2025-09-11 Jim Klimov <jimklimov+nut@gmail.com>**

- clients/upsmon.c, NEWS.adoc: dosshutdown(): collapse non-zero shutdownexitdelay handling into one clause, and ping the data server(s) while in the loop [[#3084](#)]
- clients/upsmon.c: more logging about ways to exit() the program, and why/when it happened [[#3084](#)]

**2.68 2025-09-10 Jim Klimov <jimklimov+nut@gmail.com>**

- scripts/python/module/Makefile.am: emit log note that .pypi-dist-pip-wheel goal does not produce sdist archives [[#3056](#)]
- scripts/python/module/Makefile.am: fix typo in comment
- NEWS.adoc: fixed PyPI publication to include sdist tarball [[#3056](#)]
- .github/workflows/PyNUTClient.yml: fix shell markup [[#3056](#)]
- .github/workflows/PyNUTClient.yml: actually install "setuptools" module with "pip" [[#3056](#)]
- .github/workflows/PyNUTClient.yml: allow manually running the GHA task

**2.69 2025-09-08 Jim Klimov <jimklimov+nut@gmail.com>**

- docs/hid-subdrivers.txt, docs/nut.dict: docs/hid-subdrivers.txt: updating existing drivers: suggest newly logged discrepancies of "seen vs. used" data [[#3082](#)]
- drivers/nutdrv\_atcl\_usb.c: when suggesting other drivers and configs, refer to build-aware man page sections
- docs/hid-subdrivers.txt: fix a bit of markup
- clients/upslog.c, NEWS.adoc: update help() and failure messages to suggest -m \*, -
- drivers/usbhid-ups.c: process\_boolean\_info(): handle OB!=OL and OL!=OB here (when the bit is being set) [[#3080](#)]
- drivers/usbhid-ups.c: upsdrv\_initups(): upsdebugx() at verbosity 0 (always) if there are too few mappings known or used via USB HID [[#3082](#)]
- drivers/apc-hid.c, NEWS.adoc, scripts/upower/95-upower-hid.hwdb: declare support for APC 0x051d:0x0005 as a USB HID device [[#3047](#)]
- drivers/nutdrv\_atcl\_usb.c: upsdrv\_initups() failure mode: suggest using nutdrv\_qx(8) or blazer\_usb(8) driver instead [[#1021](#), [#2152](#) follow-up]
- data/driver.list.in: add Voltronic Power USB ID 0665:5161 as nutdrv\_qx supported (per driver source comments)
- data/driver.list.in: add "Various" USB interface chip names or IDs 0665:5161 and 0001:0000 as nutdrv\_qx or rarely nutdrv\_atcl\_usb supported
- data/driver.list.in: add Salicru SPS 500 ONE USB ID 0665:5161 as nutdrv\_qx supported [[#3079](#)]
- data/driver.list.in: add Belkin USB ID 0665:5161 as nutdrv\_qx supported (per driver source comments)
- drivers/usbhid-ups.c: upsdrv\_initups(): fix variable name for the snprintf() return value [[#3083](#)]
- drivers/usbhid-ups.c: upsdrv\_initups(): also report how many hid2nut mappings are known vs. how many were used using USB HID [[#3082](#)]
- drivers/usbhid-ups.c: upsdrv\_initups(): generalize the report of unused report descriptor entries to "completely unused" vs. "partially unused" (e.g. Feature vs Input) [[#3082](#)]
- drivers/usbhid-ups.c, drivers/hidtypes.h, NEWS.adoc: check if the subdriver code (mappings) and the device report sit together well [[#3082](#)]

- drivers/usbhid-ups.c: callback(): update logged message that not only Manufacturer, but possibly an explicit Model, may be not-supported
- NEWS.adoc: update about usbhid-ups suggestion to iterate "subdriver" values
- drivers/usbhid-ups.c: upsdrv\_initups(): check that if no ups\_status bit was set, suggest that wrong "subdriver" is used then [[#3080](#), [#3061](#), [#2058](#)]
- drivers/usbhid-ups.c: callback(): add log messages to stress that the dump of Report Descriptor actually seen, and its later hid\_ups\_walk() with a particular subdriver, may not match up well [[#3061](#)]
- drivers/usbhid-ups.c: upsdrv\_initups(): add log messages to help trace logical progress through the code [[#3061](#)]
- drivers/usbhid-ups.c: possibly\_supported(): suggest iterating "subdriver" values [[#2058](#)]
- NEWS.adoc, drivers/usbhid-ups.c, drivers/usbhid-ups.h: drivers/usbhid-ups.c: do not assume that "!online"=="offline" [[#3080](#)]
- drivers/usbhid-ups.c: fix indentation (cosmetic)
- drivers/usbhid-ups.c: ups\_status\_set(): revise code markup/style

## 2.70 2025-09-07 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- drivers/mge-hid.c, NEWS.adoc: Improved support for Eaton 5S1500LCD (US version). [[#2380](#)]
- NEWS.adoc, docs/config-prereqs.txt, docs/configure.txt, docs/developers.txt, docs/download.txt, docs/maintainer-guide.txt, docs/man/apcsmart.txt, docs/man/belkin.txt, docs/man/genericups.txt, docs/man/mge-shut.txt, docs/man/upsdrvsvctl.txt, docs/man/upsmon.conf.txt, docs/man/upssched.conf.txt, docs/man/upset.cgi.txt, docs/man/usbhid-ups.txt, docs/new-drivers.txt, docs/outlets.txt, docs/packager-guide.txt, docs/scheduling.txt, scripts/Windows/README.adoc, scripts/external\_apis/enphase/README.adoc: Rework multiple docs to avoid admonition blocks with invalid sentences
- docs/Makefile.am: spellcheck: help avoid admonition blocks with invalid sentences (after rendering as a box)
- docs/download.txt: revise markup for Windows downloads
- docs/download.txt: revise info about/from Repology
- docs/download.txt: revise note about official releases
- docs/download.txt: revise part about source archives from github

## 2.71 2025-09-06 desertwitch <[24509509+desertwitch@users.noreply.github.com](mailto:24509509+desertwitch@users.noreply.github.com)>

- drivers/nutdrv\_qx\_megatec.c: trim battery.runtime variable

## 2.72 2025-09-05 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- .github/workflows/codeql.yml: fix syntax for codeql queries

## 2.73 2025-09-04 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- .github/workflows/codeql.yml: Revert ".github/workflows/codeql.yml": use modern "language" ID "c-cpp"" This reverts commit 972358ec7663007419f0b1926d30f9f5a494d910.
- .github/workflows/codeql.yml: enable ccache per scenario, follow experience from [wmnut#24](#)
- .github/workflows/codeql.yml: enable more codeql queries
- .github/workflows/codeql.yml: relocate comments, drop dead code

- .github/workflows/codeql.yml: avoid man-db update in APT actions
- .github/workflows/codeql.yml: report the location and version of compiler used
- .github/workflows/codeql.yml: add a way to vary matrix.build-mode for codeql
- .github/workflows/codeql.yml: only init CodeQL just before the actual build, not before other filesystem changes
- .github/workflows/codeql.yml: use modern "language" ID "c-cpp" "c" and "cpp" are older names, now aliases to this one
- .github/workflows/codeql.yml: revise markup and comments of the matrix definition
- .github/workflows/codeql.yml: Allow manually running the action, e.g. if disabled after some quietness in the source

## 2.74 2025-09-03 Laurent Bigonville <[bigon@bigon.be](mailto:bigon@bigon.be)>

- docs/Makefile.am: Fix installation of the pdf files

## 2.75 2025-09-03 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- docs/developers.txt: clarify use of "void" argument lists

## 2.76 2025-09-02 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- tools/nut-usbinfo.pl: update comment
- tools/nut-usbinfo.pl: use binmode for written files to have same markup regardless of builder OS
- ci\_build.sh: when reporting host envvars, use backslashes to facilitate copy-paste reproduction of CI builds
- ci\_build.sh: when reporting CONFIGURING NUT, use backslashes to facilitate copy-paste reproduction of CI builds
- configure.ac, docs/configure.txt, m4/nut\_check\_python.m4, NEWS.adoc: allow to configure Python module install location more generally [[#3062](#)]
- scripts/python/app/NUT-Monitor-py2gtk2.in, scripts/python/app/NUT-Monitor-py3qt5.in, scripts/python/app/NUT-Monitor-py3qt6.in, scripts/python/app/NUT-Monitor-py\*.in: try to honour a customized PyNUT(Client) module path [[#3062](#)]

## 2.77 2025-09-02 Hector Martin <[marcan@marcan.st](mailto:marcan@marcan.st)>

- drivers/apc\_modbus.c: apc\_modbus: Fix invalid memory access for USB vendor/product/serial

## 2.78 2025-08-31 Jim Klimov <[jimklimov+nut@gmail.com](mailto:jimklimov+nut@gmail.com)>

- configure.ac, docs/configure.txt, m4/nut\_check\_python.m4, NEWS.adoc: allow to configure PyNUT(Client) install location [[#3062](#)]

## 2.79 2025-08-09 Colin Dean <[colindean@users.noreply.github.com](mailto:colindean@users.noreply.github.com)>

- docs/download.txt, docs/nut.dict: Include macOS with Mac OS X Apple shortened the name to "OS X" in 2011 and then changed it to "macOS" in 2016 to align with the branding of Apple's other operating systems. <https://en.wikipedia.org/w/index.php?title=MacOS&oldid=1304698699>
- docs/download.txt: Update download.txt with link to Homebrew formula for macOS nut has been in Homebrew since 2014.

## 2.80 2025-08-08 Jim Klimov <jimklimov+nut@gmail.com>

- NEWS.adoc, UPGRADING.adoc: prepare for v2.8.5.x iterations
- NEWS.adoc, UPGRADING.adoc, docs/docinfo.xml.in: Revert "NEWS.adoc, UPGRADING.adoc, docs/docinfo.xml.in: finalize text before NUT v2.8.4 release" This reverts commit 8f14140bbc395baa108bd06a9f664bd0a6f00bc8.
- tools/gitlog2version.sh: for development, set fallback NUT\_VERSION\_DEFAULT=2.8.4.1
- configure.ac: for now do not require (pre-)release tagged commits to build changelog by default - keep doing it on systems where we can though
- configure.ac: rephrase the message about --enable-docs-changelog [[#3019](#), [#3053](#)]
- ci\_build.sh: limit default "configure --enable-docs-changelog=no" for CI builds on systems where CANBUILD\_DOCS\_ALL!=yes
- ci\_build.sh: add support for WITH\_CHANGELOG envvar to pass down as configure --enable-docs-changelog=...
- .github/workflows/codeql.yml: configure --disable-docs-changelog in CI builds
- configure.ac: for (pre-)release builds we default nut\_enable\_docs\_changelog auto⇒yes - do so loudly, and default --with-doc man⇒auto as well for all builds to have a chance to try this
- docs/maintainer-guide.txt: update the guide
- docs/maintainer-guide.txt: commit that in tools/gitlog2version.sh: for development, set fallback NUT\_VERSION\_DEFAULT=X.Y.Z.1
- docs/maintainer-guide.txt: remind to double-check that release NUT\_VERSION\_DEFAULT in tools/gitlog2version.sh must be a triplet

## 2.81 2025-07-30 Jim Klimov <jimklimov+nut@gmail.com>

- docs/qa-guide.adoc: mention OBS [[#1209](#)]
- obs/README.adoc, obs/Makefile.am, Makefile.am, configure.ac: document the "obs" directory and cover it with scripting [[#1209](#)]
- docs/qa-guide.adoc: move CodeQL up (alphabetically, and before semi-defunct Travis)
- docs/nut-versioning.adoc, docs/developers.txt: rename to "NUT Semantic Versioning" consistently

## 2.82 2025-07-08 Jim Klimov <jimklimov+nut@gmail.com>

- drivers/usbhid-ups.c, drivers/powercom-hid.c, docs/man/usbhid-ups.txt, NEWS.adoc: introduce powercom\_sdcmcmd\_discrete\_delay flag for Powercom Raptor and Smart KING Pro series [[#3000](#)]
- drivers/powercom-hid.c: WIP fixes for discrete shutdown timings (per RAPTOR RPT-1500AP LCD practice) - fix messages [[#3000](#)]
- NEWS.adoc, drivers/powercom-hid.c: fix shutdown delays for Powercom HID [[#3000](#)]
- drivers/powercom-hid.c: WIP fixes for discrete shutdown timings (per RAPTOR RPT-1500AP LCD practice) [[#3000](#)] Authored-by: <https://github.com/aleka204>

## 2.83 2024-01-31 Charles Lepple <clepple+nut@gmail.com>

- drivers/tripplite\_usb.c: add battery.charge for Protocol 3017 Reference: [#2258](#)

**2.84 2024-01-25 Charles Lepple <clepple+nut@gmail.com>**

- drivers/tripplite\_usb.c: Protocol 3017 adjustments Reference: #2258 SMX1200XLHG is 230V / 50 Hz

**2.85 2023-02-28 Jim Klimov <jimklimov+nut@gmail.com>**

- common/str.c: str\_ends\_with(): update origin attribution

**2.86 2022-02-10 Jim Klimov <jim@jimklimov.com>**

- obs/debian.rules: packaging/debian/rules: define a systemdtmpfilesdir
- obs/debian.rules: packaging/debian/rules: report PKG\_CONFIG\_PATH default
- obs/debian.control: packaging/debian/control: update "libmodbus5" dependency name for Debian 11

**2.87 2022-02-09 Jim Klimov <jim@jimklimov.com>**

- obs/debian.changelog, obs/debian.control, obs/debian.nut-server.install, obs/debian.nut-server.manpages, obs/nut-linux-i2c.install, obs/nut-linux-i2c.manpages, obs/nut-modbus.install, obs/nut-modbus.manpages, obs/nut.dsc: packaging/debian: update for nut-modbus and nut-linux-i2c driver packages

**2.88 2021-08-13 Clément <perrettecl@users.noreply.github.com>**

- obs/nut.dsc: Update nut.dsc

**2.89 2021-08-12 Clément <perrettecl@users.noreply.github.com>**

- obs/debian.control: Update debian.control

**2.90 2021-05-18 Clappier, Eric <EricClappier@Eaton.com>**

- obs/debian.libnutclientstub-dev.install: Remove lib static for libnutclientstub dev install
- obs/debian.rules: Fix issue in debian rules for libnutclientstub

**2.91 2021-05-17 Clément <clementperrette@eaton.com>**

- obs/debian.control, obs/debian.libnutclientstub-dev.install, obs/debian.libnutclientstub1.install, obs/debian.libnutclientstub1.lintian-overrides: Add new package for nut client stub

**2.92 2021-05-04 Jim Klimov <jim@jimklimov.com>**

- obs/pkgsrc.obs: pkgsrc.obs: tell OBS pusher to append gitdate to version (first line must be from a specific range of values)
- obs/pkgsrc.obs: pkgsrc.obs: tell OBS pusher to append gitdate to version

**2.93 2021-02-10 Jim Klimov <jim@jimklimov.com>**

- obs/debian.nut-client.links, obs/debian.rules: obs packaging: avoid warnings from systemd-sysv about legacy init scripts without a service unit

**2.94 2021-01-21 Jim Klimov <jim@jimklimov.com>**

- obs/debian.control, obs/nut.dsc: debian.rules, nut.dsc: rather ask for dh-python | dh-python2 | dh-python3 \| dh-pypy
- obs/debian.control, obs/nut.dsc: debian.rules, nut.dsc: ask for dh\_python2 | dh\_python3 \| dh\_pypy
- obs/debian.rules: debian.rules: clarify that any python 2/3 is okay, but we need an interpreter called "python" to be generic
- obs/debian.control: debian.control: clarify that any python 2/3 is okay, but we need an interpreter called "python" to be generic
- obs/nut.dsc: nut.dsc: clarify that any python 2/3 is okay, but we need an interpreter called "python" to be generic

**2.95 2021-01-20 Jim Klimov <jim@jimklimov.com>**

- obs/debian.control, obs/nut.dsc: FTY OBS packaging: require libsystemd-dev in the build root (to use pkgconfig systemd queries)

**2.96 2020-03-14 Jim Klimov <jim@jimklimov.com>**

- obs/debian.nut-monitor.install: Fix formal 42ity packaging for nut-monitor.png icon (recent master branch added different resolutions)

**2.97 2019-12-06 Jim Klimov <jim@jimklimov.com>**

- obs/debian.rules: debian.rules : fix away debian. prefix for \*.in templates
- obs/debian.Makefile.in, ... n.nut-client.init ⇒ debian.nut-client.init.in }, ... mmon.postinst ⇒ debian.nut-common.postinst.in }, ... nut-common.prerm ⇒ debian.nut-common.prerm.in }, obs/debian.nut-common.tmpfiles, obs/debian.nut-common.tmpfiles.in, ... n.nut-server.init ⇒ debian.nut-server.init.in }, ... nut-server.prerm ⇒ debian.nut-server.prerm.in }, obs/debian.rules: Introduce "runbasedir" in debian packaging on OBS to use /run or /var/run as appropriate

**2.98 2019-04-12 Jim Klimov <jim@jimklimov.com>**

- obs/debian.control, obs/nut.dsc: Debian packaging: explicitly request libssl\*-dev so OBS is not confused for Debian 9 options
- obs/nut.spec: nut.spec : do not fail making build dir trees
- obs/debian.control, obs/nut.dsc: Debian packaging: explicitly request libjpeg-dev so OBS is not confused for Debian 9 options

**2.99 2019-04-03 Jim Klimov <jim@jimklimov.com>**

- obs/debian.rules: debian.rules : update SO\_MAJOR\_LIBUPSCLIENT for 42ity packaging

**2.100 2019-02-20 Jim Klimov <jim@jimklimov.com>**

- obs/debian.rules: debian.rules : make sure wanted SONAMES exist (numbers remained unchanged)
- obs/debian.control, obs/debian.libnutclient0.lintian-overrides, ... bnutclient0.install ⇒ debian.libnutclient1.install }, obs/debian.libnut overrides, obs/debian.rules, obs/nut.dsc: Problem: libnutclient not found in consumer packaged builds Solution: update the hardcoded pathnames in recipes, leave some comments for improvement

**2.101 2018-12-06 Jim Klimov <jim@jimklimov.com>**

- obs/debian.control: debian.control : nut-ipmi should have run-time deps on IPMI libs
- obs/debian.control: debian.control : rephrase nut-server description

**2.102 2018-10-05 Jim Klimov <jim@jimklimov.com>**

- obs/debian.nut-server.postinst: debian.nut-server.postinst : REPORT\_RESTART\_42=no when reconfiguring
- obs/debian.nut-server.postinst: nut-driver-enumerator : use --reconfigure to remake units from scratch in Debian postinstall

**2.103 2018-09-28 Jim Klimov <jim@jimklimov.com>**

- obs/debian.nut-client.postinst, obs/debian.nut-common.postinst, obs/debian.nut-server.postinst: nut-(clientserver\lcommon).postinst : skip DEBHELPER in our case

**2.104 2018-09-27 Jim Klimov <jim@jimklimov.com>**

- obs/debian.control: debian.control : "nut-server" should have no business requiring "nut-client"
- obs/debian.control: debian.control : have "nut" metapackage explicitly depend on nut-common to pre-create things
- obs/debian.control: debian.control : new nut-common has no opinion about old nut-hal-drivers
- obs/debian.nut-client.postinst, obs/debian.nut-common.postinst, obs/debian.nut-server.postinst: debian.nut-\*.post/pre-inst/rm : do not fail package installation if could not start services
- obs/debian.nut-client.postinst, obs/debian.nut-client.prerm, obs/debian.nut-common.postinst, obs/debian.nut-common.prerm, obs/debian.nut-server.postinst, obs/debian.nut-server.prerm: debian.nut-\*.post/pre-inst/rm : call /bin/systemctl only on systems where it is available, and do not block on attempts to start the services

**2.105 2018-09-26 Jim Klimov <jim@jimklimov.com>**

- obs/debian.control: debian.control : reference nut-common
- obs/debian.rules: debian.rules : deliver one nut-common.conf tmpfiles config instead of two same files for client and server
- obs/debian.control: debian.control : update sub-driver packages to rely on just the nut-server package, not nut metapackage
- obs/debian.control: debian.control : clarify where packages provide clients for "a local or remote NUT server"
- obs/debian.nut-client.prerm, obs/debian.nut-common.prerm, obs/debian.nut-server.prerm: Add systemd shutdown of installed units during uninstallation of the packages
- obs/debian.nut-client.postinst, obs/debian.nut-common.postinst, obs/debian.nut-server.postinst: Add systemd startup of installed units
- obs/debian.nut-client.postinst, obs/debian.nut-common.postinst, obs/debian.nut-server.postinst: Add systemd registration of installed units
- obs/debian.control, obs/debian.nut-cgi.postinst, obs/debian.nut-client.postinst, obs/debian.nut-common.install, obs/debian.nut-common.postinst, obs/debian.nut-common.prerm, ... -client.tmpfiles ⇒ debian.nut-common.tmpfiles }, obs/debian.nut-server.postinst, obs/debian.nut-server.tmpfiles, obs/debian.rules: Introduce (debian) nut-common package for user account and shared FS objects

**2.106 2018-09-06 Jim Klimov <jim@jimklimov.com>**

- obs/nut.spec: nut.spec : do not use the configure macro
- obs/nut.spec: nut.spec : do not use the configure macro

**2.107 2018-09-05 Jim Klimov <jim@jimklimov.com>**

- obs/nut.spec: nut.spec : do not redefine (differently) paths set by %configure macro, try to set them directly
- obs/nut.spec: nut.spec : whitespace
- obs/nut.spec: nut.spec : remove commented-away references to private OBS patches that are not used anymore

**2.108 2018-09-03 Jim Klimov <jim@jimklimov.com>**

- obs/debian.nut-server.install, obs/nut.spec: nut.spec : fix RPM packaging for OBS

**2.109 2018-01-15 Jim Klimov <jim@jimklimov.com>**

- obs/nut.spec: nut.spec : avoid "nut" vs "nut-drivers-net" conflict over gen-snmp-subdriver.sh

**2.110 2018-01-03 Jim Klimov <jim@jimklimov.com>**

- obs/nut.spec: nut.spec : publish augoeas files

**2.111 2018-01-02 Jim Klimov <jim@jimklimov.com>**

- obs/debian.control, obs/debian.rules, obs/nut.dsc: Debian packaging : require pkg-config, and provide some fallbacks if sys-temd dirs are unknown
- obs/nut.spec: nut.spec : suse wants a package
- obs/nut.spec: nut.spec : dist augoeas files
- obs/debian.rules, obs/nut.spec: Packaging : pass the systemd\*dir arguments to configure script
- obs/nut.spec: nut.spec : use proper systemdshutdowndir relevant for current distro/arch
- obs/nut.spec: nut.spec : fix "bindir" macro to "\_bindir"

**2.112 2017-12-31 Jim Klimov <jim@jimklimov.com>**

- obs/debian.rules: debian.rules : avoid re-configuring before "make install" again
- obs/debian.rules, obs/nut.spec: packaging : use --with-docs=man=dist-auto

**2.113 2017-10-19 Jim Klimov <jim@jimklimov.com>**

- obs/debian.compat, obs/debian.rules: Use DH\_COMPAT=10 to enable parallel build support by default

**2.114 2017-10-13 Jim Klimov <jim@jimklimov.com>**

- obs/debian.rules: debian.rules : enable parallelized packaging

**2.115 2017-04-12 Jim Klimov <jim@jimklimov.com>**

- obs/debian.nut-server.install: Drop remaining references to oldmge-shut

**2.116 2016-10-06 Arnaud Quette <[arnaud.quette@free.fr](mailto:arnaud.quette@free.fr)>**

- obs/nut.spec: Distribute gen-snmp-subdriver.sh with nut-snmp for RPM
- obs/debian.nut-snmp.install, obs/debian.rules: Distribute gen-snmp-subdriver.sh with nut-snmp

**2.117 2016-09-22 Jim Klimov <[jim@jimklimov.com](mailto:jim@jimklimov.com)>**

- obs/debian.rules: debian.rules : skip even the manpages if the host cannot build them
- obs/debian.rules: debian.rules : whitespace fixes
- obs/debian.rules, obs/nut.dsc, obs/nut.spec: nut.dsc / nut.spec : do not request rebuild and revalidation of DMF files - they were tested in Jenkins NUT-master job (remove build dependency on pycparser and speed up the build)
- obs/nut.spec: nut.spec : try to fix inability to detect LUA on some RPM buildhosts

**2.118 2016-09-14 Jim Klimov <[jim@jimklimov.com](mailto:jim@jimklimov.com)>**

- obs/debian.libnutscan1.install, obs/debian.nut-snmp.install: debian.nut-snmp.install debian.libnutscan1.install : fix conflict for dmfnutscan resource dirs delivered by both packages
- obs/nut.spec: nut.spec : fix mixed spaces vs tabs
- obs/debian.nut-snmp.install, obs/nut.spec: RPM/DEB : deliver the sorted symlinks in packages

**2.119 2016-08-19 Jim Klimov <[jim@jimklimov.com](mailto:jim@jimklimov.com)>**

- obs/debian.control, obs/nut.dsc, obs/nut.spec: OBS: Try to rectify package numbering and dependencies of sub-packages for Debian
- obs/nut.dsc, obs/nut.spec: Build Requires python-pycparser
- obs/nut.spec: OBS nut.spec : make manpages optional
- obs/nut.spec: OBS nut.spec : fix LUA requirement at == 5.1 (not >= 5.1)
- obs/nut.spec: nut.spec : make asciidoc a common dependency
- obs/debian.rules, obs/nut.spec: OBS : try to call autogen.sh before configuring sources
- obs/nut.spec: OBS nut.spec : use common tarball filename pattern
- obs/nut.dsc: OBS nut.dsc : comment away DEBTRANSFORM of teh tarball
- obs/debian.nut-snmp.install, obs/nut.spec: Update OBS packaging to deliver bin/nut-scanner-reindex-dmfsnmp
- obs/debian.nut-snmp.install, obs/debian.rules, obs/nut.spec: Update packaging files to install DMF data files
- obs/control: Seems OBS mfpac.sh wants a file named "control" in any debian-pkg directory type (obs/ too)

**2.120 2016-08-18 Jim Klimov <[jim@jimklimov.com](mailto:jim@jimklimov.com)>**

- obs/debian.Makefile.am, obs/debian.Makefile.in, obs/debian.NEWS, obs/debian.changelog, obs/debian.compat, obs/debian.control, obs/debian.copyright, obs/debian.description.subst, obs/debian.gbp.conf, obs/debian.hotplug, obs/debian.libnutclient-dev.install, obs/debian.libnutclient-dev.manpages, obs/debian.libnutclient0.install, obs/debian.libnutclient0.lintian-overrides, obs/debian.libnutclient-dev.install, obs/debian.libnutclient1.install, obs/debian.libups-nut-perl.install, obs/debian.libupsclient-dev.install, obs/debian.libupsclient-dev.manpages, obs/debian.libupsclient4.install, obs/debian.nut-cgi.README.Debian, obs/debian.nut-cgi.docs, obs/debian.nut-cgi.install, obs/debian.nut-cgi.manpages, obs/debian.nut-cgi.postinst, obs/debian.nut-cgi.postrm, obs/debian.nut-client.init, obs/debian.client.install, obs/debian.nut-client.links, obs/debian.nut-client.lintian-overrides, obs/debian.nut-client.maintscript, obs/debian.nut-client.manpages, obs/debian.nut-client.postinst, obs/debian.nut-client.preinst, obs/debian.nut-client.tmpfiles, obs/debian.nut-doc.doc-base.nut-developer-guide, obs/debian.nut-doc.doc-base.nut-faq, obs/debian.nut-doc.doc-base.nut-packager-guide, obs/debian.doc.doc-base.nut-user-manual, obs/debian.nut-doc.install, obs/debian.nut-ipmi.install, obs/debian.nut-ipmi.manpages, obs/debian.nut-monitor.install, obs/debian.nut-monitor.menu, obs/debian.nut-monitor.xpm, obs/debian.nut-powerman-pdu.install, obs/debian.nut-powerman-pdu.manpages, obs/debian.nut-server.dirs, obs/debian.nut-server.init, obs/debian.nut-server.install, obs/debian.nut-server.manpages, obs/debian.nut-server.postinst, obs/debian.nut-server.postrm, obs/debian.nut-server.preinst, obs/debian.nut-server.prerm, obs/debian.nut-server.tmpfiles, obs/debian.nut-snmp.docs, obs/debian.nut-snmp.install, obs/debian.nut-snmp.manpages, obs/debian.nut-xml.install, obs/debian.nut-xml.manpages, obs/debian.nut.README.Debian, obs/debian.nut.TODO.Debian, obs/debian.nut.docs, obs/debian.python-nut.install, obs/debian.rules, obs/debian.series, obs/debian.watch, obs/nut.changes, obs/nut.dsc, obs/nut.spec: Added packaging metadata used by OBS as of 2016-08-18 (except debian.series)