

# DevOrSysAdminScripts

Laurent Frédéric Bernard François Lyaudet

<https://lyaudet.eu/laurent/>

Laurent.Lyaudet@gmail.com

February 3, 2026

## Abstract

Some “small” useful scripts for enhancing development or system-administrators tasks

Current version: 2026-02-03

Current number of commits: 274

Current git SHA1: 80901b9210adacc80890f23bb6a8d49c5093b13d

Code lines: 6894 total lines, 6215 not empty lines, 679 empty lines.

## Contents

<b>1</b>	<b>Files tree</b>	<b>4</b>
<b>2</b>	<b>Listing of files</b>	<b>7</b>
2.1	build_and_checks_dependencies/build_and_checks.exec.sh.tpl . . .	8
2.2	build_and_checks_dependencies/build_md_from_printable_md.exec.sh . . . . .	10
2.3	build_and_checks_dependencies/check_shell_scripts_beginnings.libr.sh . . . . .	12
2.4	build_and_checks_dependencies/check_URLs.libr.sh . . . . .	13
2.5	build_and_checks_dependencies/common_build_and_checks.exec.sh . . . . .	15
2.6	build_and_checks_dependencies/common_build_and_checks.exec.sh.tpl . . . . .	27
2.7	build_and_checks_dependencies/comparisons.libr.sh . . . . .	38
2.8	build_and_checks_dependencies/create_PDF.exec.sh . . . . .	40
2.9	build_and_checks_dependencies/generate_from_template.libr.sh . . . . .	49
2.10	build_and_checks_dependencies/get_common_text_glob_patterns.libr.sh . . . . .	52
2.11	build_and_checks_dependencies/grammar_and_spell_check.libr.sh . . . . .	54
2.12	build_and_checks_dependencies/licenses_templates/build_licenses_templates.exec.sh . . . . .	55
2.13	build_and_checks_dependencies/licenses_templates/license_file_header_AGPLv3+.c.tpl . . . . .	61

2.14	build_and_checks_dependencies/licenses_templates/license_file_header_AGPLv3+.py.tpl	61
2.15	build_and_checks_dependencies/licenses_templates/license_file_header_AGPLv3+.sh.tpl	62
2.16	build_and_checks_dependencies/licenses_templates/license_file_header_AGPLv3+.tex.tpl	63
2.17	build_and_checks_dependencies/licenses_templates/license_file_header_AGPLv3+.tpl	63
2.18	build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.c.tpl	64
2.19	build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.py.tpl	64
2.20	build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.sh.tpl	65
2.21	build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.tex.tpl	65
2.22	build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.tpl	66
2.23	build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.c.tpl	66
2.24	build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.py.tpl	67
2.25	build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.sh.tpl	68
2.26	build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.tex.tpl	68
2.27	build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.tpl	69
2.28	build_and_checks_dependencies/lines_counts.libr.sh	69
2.29	build_and_checks_dependencies/lines_filters.libr.sh	71
2.30	build_and_checks_dependencies/lines_maps.libr.sh	77
2.31	build_and_checks_dependencies/overwrite_if_not_equal.libr.sh	79
2.32	build_and_checks_dependencies/python_black_complement.libr.sh	80
2.33	build_and_checks_dependencies/python_isort_complement.libr.sh	81
2.34	build_and_checks_dependencies/split_score.exec.php	82
2.35	build_and_checks_dependencies/split_score.libr.php	84
2.36	build_and_checks_dependencies/strings_functions.libr.sh	85
2.37	build_and_checks_dependencies/too_long_code_lines.libr.sh	93
2.38	build_and_checks_dependencies/update_common_build_and_checks.exec.sh	94
2.39	build_and_checks_dependencies/update_or_check_files_names_listing.exec.sh	97
2.40	build_and_checks_variables/.gitignore	100
2.41	build_and_checks_variables/bandit.ini	100
2.42	build_and_checks_variables/bandit_baseline.json	100
2.43	build_and_checks_variables/DevOrSysAdminScripts.html.tpl	100

2.44	build_and_checks_variables/DevOrSysAdminScripts.tex.tpl . . . . .	105
2.45	build_and_checks_variables/files_listing.tex.tpl . . . . .	108
2.46	build_and_checks_variables/files_names_listing.txt . . . . .	125
2.47	build_and_checks_variables/licenses_notes.txt . . . . .	128
2.48	build_and_checks_variables/pylintrc.toml . . . . .	129
2.49	build_and_checks_variables/repository_data.txt . . . . .	129
2.50	build_and_checks.exec.sh . . . . .	131
2.51	COPYING . . . . .	134
2.52	COPYING.LESSER . . . . .	148
2.53	git_helpers/git_checks.libr.sh . . . . .	152
2.54	git_helpers/post-commit . . . . .	154
2.55	git_helpers/post_commit_renaming_comment.libr.sh . . . . .	155
2.56	git_helpers/pre-commit . . . . .	163
2.57	LiensUtiles.txt . . . . .	164
2.58	README.md.tpl . . . . .	164
2.59	unicode.libr.php . . . . .	166
2.60	upgrade_build_and_checks.exec.sh . . . . .	171
2.61	wget_sha512.libr.sh . . . . .	172

## 1 Files tree

```
. └── build_and_checks_dependencies
    ├── build_and_checks.exec.sh.tpl
    ├── build_md_from_printable_md.exec.sh
    ├── check_shell_scripts_beginnings.libr.sh
    ├── check_URLs.libr.sh
    ├── common_build_and_checks.exec.sh
    ├── common_build_and_checks.exec.sh.tpl
    ├── comparisons.libr.sh
    ├── create_PDF.exec.sh
    ├── generate_from_template.libr.sh
    ├── get_common_text_glob_patterns.libr.sh
    ├── grammar_and_spell_check.libr.sh
    └── licenses_templates
        ├── build_licenses_templates.exec.sh
        ├── license_file_header GPLv3+.c.tpl
        ├── license_file_header GPLv3+.py.tpl
        ├── license_file_header GPLv3+.sh.tpl
        ├── license_file_header GPLv3+.tex.tpl
        ├── license_file_header GPLv3+.tpl
        ├── license_file_header GPLv3+.c
        ├── license_file_header GPLv3+.c.tpl
        ├── license_file_header GPLv3+.py
        ├── license_file_header GPLv3+.py.tpl
        ├── license_file_header GPLv3+.sh
        ├── license_file_header GPLv3+.sh.tpl
        ├── license_file_header GPLv3+.tex
        ├── license_file_header GPLv3+.tex.tpl
        ├── license_file_header GPLv3+.tpl
        ├── license_file_header LGPLv3+.c
        ├── license_file_header LGPLv3+.c.tpl
        ├── license_file_header LGPLv3+.py
        ├── license_file_header LGPLv3+.py.tpl
        ├── license_file_header LGPLv3+.sh
        ├── license_file_header LGPLv3+.sh.tpl
        ├── license_file_header LGPLv3+.tex
        ├── license_file_header LGPLv3+.tex.tpl
        └── license_file_header LGPLv3+.tpl
        └── lines_counts.libr.sh
        └── lines_filters.libr.sh
        └── lines_maps.libr.sh
        └── overwrite_if_not_equal.libr.sh
        └── python_black_complement.libr.sh
        └── python_isort_complement.libr.sh
```

```
    └── split_score.exec.php
    └── split_score.libr.php
    └── strings_functions.libr.sh
    └── too_long_code_lines.libr.sh
    └── update_common_build_and_checks.exec.sh
    └── update_or_check_files_names_listing.exec.sh
    └── build_and_checks.exec.sh
    └── build_and_checks_variables
        ├── bandit_baseline.json
        ├── bandit.ini
        ├── DevOrSysAdminScripts.html.tpl
        ├── DevOrSysAdminScripts.tex
        ├── DevOrSysAdminScripts.tex.tpl
        ├── files_listing.tex.tpl
        ├── files_names_listing.txt
        ├── .gitignore
        ├── licenses_notes.txt
        ├── pylintrc.toml
        └── repository_data.txt
    └── COPYING
    └── COPYING.LESSER
    └── DevOrSysAdminScripts.html
    └── DevOrSysAdminScripts.pdf
    └── git_helpers
        ├── git_checks.libr.sh
        ├── post-commit
        ├── post_commit_renaming_comment.libr.sh
        └── pre-commit
    └── LiensUtiles.txt
    └── README.html
    └── README.md
    └── README.md.tpl
    └── unicode.libr.php
    └── upgrade_build_and_checks.exec.sh
    └── wget_sha512.libr.sh
```

5 directories, 74 files

```
[ 12K Feb  3 19:33]  ./
└── [4.0K Feb  3 19:33]  build_and_checks_dependencies/
    ├── [3.4K Feb  3 14:21]  build_and_checks.exec.sh.tpl*
    ├── [2.5K Jan  3 18:57]  build_md_from_printable_md.exec.sh*
    ├── [1.3K Jan  3 18:57]  check_shell_scripts_beginnings.libr.sh
    ├── [2.7K Jan  3 19:40]  check_URLs.libr.sh
    ├── [ 21K Feb  3 19:33]  common_build_and_checks.exec.sh*
    └── [ 16K Jan 30 19:24]  common_build_and_checks.exec.sh.tpl
```

```

[3.1K Jan  3 18:57]  comparisons.libr.sh
[ 15K Feb  3 12:38]  create_PDF.exec.sh*
[3.1K Feb  3 19:32]  generate_from_template.libr.sh
[1.9K Jan  3 18:57]  get_common_text_glob_patterns.libr.sh
[1.9K Jan  3 18:57]  grammar_and_spell_check.libr.sh
[4.0K Feb  3 19:33]  licenses_templates/
[ 9.1K Feb  3 19:31]  build_licenses_templates.exec.sh*
[ 734 Dec 30 19:34]  license_file_header_AGPLv3+.c.tpl
[ 736 Dec 30 19:34]  license_file_header_AGPLv3+.py.tpl
[ 788 Feb  3 19:33]  license_file_header_AGPLv3+.sh.tpl
[ 768 Jan  5 17:57]  license_file_header_AGPLv3+.tex.tpl
[ 728 Dec 30 19:32]  license_file_header_AGPLv3+.tpl
[ 761 Jan  3 18:40]  license_file_header_GPLv3+.c
[ 713 Dec 27 21:48]  license_file_header_GPLv3+.c.tpl
[ 763 Jan  3 18:40]  license_file_header_GPLv3+.py
[ 715 Dec 27 21:48]  license_file_header_GPLv3+.py.tpl
[ 815 Feb  3 19:33]  license_file_header_GPLv3+.sh
[ 767 Feb  3 19:33]  license_file_header_GPLv3+.sh.tpl
[ 795 Jan  5 17:57]  license_file_header_GPLv3+.tex
[ 747 Jan  5 17:57]  license_file_header_GPLv3+.tex.tpl
[ 707 Dec 27 21:48]  license_file_header_GPLv3+.tpl
[ 782 Jan  3 18:40]  license_file_header_LGPLv3+.c
[ 734 Dec 27 21:48]  license_file_header_LGPLv3+.c.tpl
[ 784 Jan  3 18:40]  license_file_header_LGPLv3+.py
[ 736 Dec 27 21:48]  license_file_header_LGPLv3+.py.tpl
[ 836 Feb  3 19:33]  license_file_header_LGPLv3+.sh
[ 788 Feb  3 19:33]  license_file_header_LGPLv3+.sh.tpl
[ 816 Jan  3 18:48]  license_file_header_LGPLv3+.tex
[ 768 Dec 27 21:48]  license_file_header_LGPLv3+.tex.tpl
[ 728 Dec 27 21:48]  license_file_header_LGPLv3+.tpl
[2.2K Jan  3 18:57]  lines_counts.libr.sh
[6.7K Jan  3 18:57]  lines_filters.libr.sh
[2.8K Jan  3 18:57]  lines_maps.libr.sh
[1.7K Feb  3 11:56]  overwrite_if_not_equal.libr.sh
[1.4K Jan 24 18:32]  python_black_complement.libr.sh
[1.7K Jan  3 18:57]  python_isort_complement.libr.sh
[1.6K Feb  3 17:57]  split_score.exec.php
[1.9K Jan  4 13:38]  split_score.libr.php
[ 12K Jan  4 15:39]  strings_functions.libr.sh
[2.3K Jan  3 18:57]  too_long_code_lines.libr.sh
[4.0K Feb  3 10:19]  update_common_build_and_checks.exec.sh*
[4.2K Jan  4 13:49]  *
| update_or_check_files_names_listing.exec.sh**
[3.6K Feb  3 19:33]  build_and_checks.exec.sh*
[4.0K Feb  3 19:33]  build_and_checks_variables/
| [ 15 Jan  5 20:00]  bandit_baseline.json

```

```

    [ 25 Jan  5 18:49] bandit.ini
    [5.1K Jan  7 16:45] DevOrSysAdminScripts.html.tpl
    [ 27K Feb  3 19:33] DevOrSysAdminScripts.tex
    [3.8K Jan  7 16:46] DevOrSysAdminScripts.tex.tpl
    [ 15K Jan 30 19:43] files_listing.tex.tpl
    [5.4K Jan 30 19:43] files_names_listing.txt
    [ 24 Jan 15 22:26] .gitignore
    [1.1K Jan  7 16:44] licenses_notes.txt
    [ 173 Jan 30 19:40] pylintrc.toml
    [3.5K Jan 15 22:24] repository_data.txt
[ 34K May  6 2024] COPYING
[7.5K Dec 27 21:48] COPYING.LESSER
[276K Feb  3 19:33] DevOrSysAdminScripts.html
[269K Feb  3 19:33] DevOrSysAdminScripts.pdf
[4.0K Jan  4 13:54] git_helpers/
    [3.4K Jan  3 18:57] git_checks.libr.sh
    [1.2K Dec 30 17:25] post-commit
    [ 13K Jan  4 13:54] post_commit_renaming_comment.libr.sh
    [1.3K Dec 30 17:03] pre-commit
[ 830 Dec 29 19:10] LiensUtiles.txt
[3.4K Jan  5 19:29] README.html
[3.3K Jan  5 19:29] README.md
[3.3K Jan  5 19:29] README.md.tpl
[ 6.5K Jan  3 18:57] unicode.libr.php
[1.4K Feb  3 14:19] upgrade_build_and_checks.exec.sh*
[1.5K Jan  3 18:57] wget_sha512.libr.sh

5 directories, 74 files

```

## 2 Listing of files

This repository is dual licensed. All the Bash scripts source code is covered by GPLv3+. All the PHP scripts source code is covered by GPLv3+.

The text of the licenses is available at: <https://www.gnu.org/licenses/>. The git repository of this source code is also available at: <https://github.com/LLyaudet/DevOrSysAdminScripts/>.

Here is a listing of the dependencies of the code in this repository:

- The following dependencies are GPLv3+ licensed:  
basename, bash (and its builtins), cat, chmod, cp, cut, date, diff, dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum, shellcheck, sort, tail, wc, wget, xargs
- The following dependencies are GPLv2+ licensed:  
more, pandoc, pdflatex, pdfflatex, tree

- The following dependencies are GPLv2 licensed:  
git, pylint
- The following dependencies are LGPLv2.1+ licensed:  
notify-send
- The following dependencies are MIT licensed:  
black, isort, mypy
- The following dependencies are Apache-2.0 licensed:  
bandit
- php is licensed under PHP License v3.01
- tex is licensed under Knuth license
- pcregrep has a custom license from Cambridge University

Remark: Some commands listed under GPLv3+ are POSIX and can have different implementations under another license; for example, uutils coreutils is MIT licensed, whilst GNU coreutils is GPLv3+ licensed.

## 2.1 build\_and\_checks\_dependencies/build\_and\_checks.exec.sh.tpl

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "build_and_checks.exec.sh.tpl" was renamed from

```

```

25 # "build_and_checks.sh.tpl" to "build_and_checks.exec.sh.tpl".
26 # The file "build_and_checks.exec.sh" generated from the file
27 # "build_and_checks.sh.tpl" or "build_and_checks.exec.sh.tpl"
28 # was renamed from
29 # "build_and_checks.sh" to "build_and_checks.exec.sh".
30
31 build_and_checks() {
32     local LFBFL_working_directory="."
33     if [[ -n "$1" ]]; then
34         LFBFL_working_directory="$1"
35     fi
36     readonly LFBFL_working_directory
37
38     local LFBFL_verbose=""
39     if [[ "$2" == "--verbose" ]]; then
40         echo "$0 $*"
41         LFBFL_verbose="--verbose"
42     fi
43     readonly LFBFL_verbose
44
45     # shellcheck disable=SC1091
46     source ./wget_sha512.libr.sh
47
48     LFBFL_subdir="build_and_checks_dependencies"
49     mkdir -p "${LFBFL_subdir}/licenses_templates"
50     mkdir -p "build_and_checks_variables/temp"
51     if ! [[ -f "build_and_checks_variables/.gitignore" ]]; then
52         echo "temp/" > "build_and_checks_variables/.gitignore"
53         echo "" >> "build_and_checks_variables/.gitignore"
54     fi
55
56     # LFBFL_dependencies_raw_content_download_URL
57     local LFBFL_dependencies_URL
58     LFBFL_dependencies_URL="https://raw.githubusercontent.com/LLyaudet/"
59     LFBFL_dependencies_URL+="DevOrSysAdminScripts/main/${LFBFL_subdir}"
60     readonly LFBFL_dependencies_URL
61
62     declare -r LFBFL_common_file_name="common_build_and_checks.exec.sh"
63     # LFBFL_script_download_URL
64     declare -r \
65         LFBFL_script="${LFBFL_dependencies_URL}/${LFBFL_common_file_name}"
66     declare -r \
67         LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_common_file_name}"
68     @sha512_common_build_and_checks.exec.sh@
69     wget_sha512 "${LFBFL_file_path}" "${LFBFL_script}" \
70         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

```

```

71 chmod +x "./${LFBFL_file_path}"
72
73 "${LFBFL_file_path}" "${LFBFL_working_directory}" \
74   "${LFBFL_dependencies_URL}" "${LFBFL_verbose}"
75 }
76
77 if [[ "$*" == "--fixed_point_build* ]]; then
78   echo "--fixed_point_build"
79   source "./build_and_checks_dependencies/lines_filters.libr.sh"
80   LFBFL_data_file_name="./build_and_checks_variables/"
81   LFBFL_data_file_name+="repository_data.txt"
82   grep_variable "${LFBFL_data_file_name}" repository_name
83   # Touching the 3 following files first let us iterate
84   # upgrade_build_and_checks 2 times instead of 3 to reach
85   # a fixed point.
86   touch "./build_and_checks_variables/${repository_name}.tex"
87   touch "./${repository_name}.pdf"
88   touch "./${repository_name}.html"
89   # The two iterations of build_and_checks needs to complete
90   # during the same minute to have a fixed point.
91   build_and_checks "$@"
92   # build_and_checks "$@" second iteration below
93   # Then calling this script without --fixed_point_build should not
94   # yield any new superficial modifications.
95 fi
96
97 build_and_checks "$@"

```

## 2.2 build\_and\_checks\_dependencies/build\_md\_from\_printable\_md.exec.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.

```

```

17  #
18  # You should have received a copy of
19  # the GNU General Public License
20  # along with DevOrSysAdminScripts.
21  # If not, see <https://www.gnu.org/licenses/>.
22  #
23  # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24  # This file was renamed from "build_md_from_printable_md.sh"
25  # to "build_md_from_printable_md.exec.sh".
26
27 LFBFL_verbose=""
28 if [ "$3" == "--verbose" ]; then
29   echo "$0 $*"
30   # shellcheck disable=SC2034
31   LFBFL_verbose="--verbose"
32 fi
33
34 LFBFL_subdir="build_and_checks_dependencies"
35 # shellcheck disable=SC1090
36 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
37
38 LFBFL_sed_expression='s/(\[[a-zA-Z0-9:-]*\]: [^\n\\]*)\\n/\1/Mg'
39 LFBFL_sed_expression+=';s/(<http[^\\n\\"]*)\\n/\1/Mg'
40 LFBFL_sed_expression+=';s/(- <http[^\\n\\"]*)\\n/\1/Mg'
41
42 declare -i LFBFL_cd_result
43 pushd .
44 if [ -n "$1" ];
45 then
46   cd "$1" || {
47     LFBFL_cd_result=$?;
48     echo "build_md_from_printable_md no such directory";
49     # shellcheck disable=SC2248,2250
50     exit $LFBFL_cd_result;
51   }
52 fi
53
54 file_name="README"
55 if [ -n "$2" ];
56 then
57   file_name="$2"
58 fi
59
60 if [ -f "${file_name}.md.tpl" ];
61 then
62   sed -Ez "${LFBFL_sed_expression}" "${file_name}.md.tpl" \

```

```

63      > "${file_name}_temp1.md"
64      sed -Ez "${LFBFL_sed_expression}" "${file_name}_temp1.md"\ \
65          > "${file_name}_temp2.md"
66      sed -Ez "${LFBFL_sed_expression}" "${file_name}_temp2.md"\ \
67          > "${file_name}_temp3.md"
68      sed -Ez "${LFBFL_sed_expression}" "${file_name}_temp3.md"\ \
69          > "${file_name}_temp4.md"
70      overwrite_if_not_equal "${file_name}.md" "${file_name}_temp4.md"
71      rm "${file_name}_temp1.md" "${file_name}_temp2.md"\ \
72          "${file_name}_temp3.md"
73  else
74      echo "No file ${file_name}.md.tpl"
75  fi
76
77  pandoc -f markdown "${file_name}.md" > "${file_name}.html.temp"
78  overwrite_if_not_equal "${file_name}.html" "${file_name}.html.temp"
79
80 declare -i LFBFL_popd_result
81 popd || {
82     LFBFL_popd_result=$?;
83     echo "build_md_from_printable_md no popd";
84     # shellcheck disable=SC2248,2250
85     exit $LFBFL_popd_result;
86 }

```

## 2.3 build\_and\_checks\_dependencies/check\_shell\_scripts\_beginnings.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License

```

```

20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "check_shell_scripts_beginnings.sh"
25 # to "check_shell_scripts_beginnings.libr.sh".
26
27 check_one_shell_script_beginning() {
28     declare -r LFBFL_file_name=$(basename "$1")
29     if [[ "${LFBFL_file_name}" =~ license_file_header_.*\.sh ]]; then
30         return 0
31     fi
32     # shellcheck disable=SC2312
33     diff <(head -n 1 "$1") <(echo '#!/usr/bin/env bash')
34 }
35
36
37 check_shell_scripts_beginnings() {
38     shopt -s globstar
39     local LFBFL_file_name
40     for LFBFL_file_name in **/*.sh; do
41         check_one_shell_script_beginning "${LFBFL_file_name}"
42     done
43 }

```

## 2.4 build\_and\_checks\_dependencies/check\_URLs.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License

```

```

20  # along with DevOrSysAdminScripts.
21  # If not, see <https://www.gnu.org/licenses/>.
22  #
23  # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24  # This file was renamed from "check_URLs.sh" to "check_URLs.libr.sh".
25
26  LFBFL_subdir="build_and_checks_dependencies"
27  # shellcheck disable=SC1090
28  source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
29  # shellcheck disable=SC1090
30  source "./${LFBFL_subdir}/lines_filters.libr.sh"
31
32  check_URLs() {
33      get_COMMON_TEXT_FILES_GLOB_PATTERNS
34
35      declare -A LFBFL_substitutions
36      LFBFL_substitutions=(\
37          ["http://www.gnu.org/licenses/"]="https://www.gnu.org/licenses/"\
38      )
39
40      local LFBFL_pattern
41      local LFBFL_file_name
42      local LFBFL_base_file_name
43      local LFBFL_substitution
44      local LFBFL_substitution2
45      # shellcheck disable=SC2154
46      for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
47          [[ "$1" != "-v" ]]\
48              || echo "Iterating on pattern: ${LFBFL_pattern}"
49  # shellcheck disable=SC2312
50      find . -type f -name "${LFBFL_pattern}" -printf '%P\n'\
51          | xargs grep -H 'http:'\
52          | grep -v "| xargs grep -H 'htt'"\
53          | grep -vP "[']http(:[^']*)['].*[']https\\1[']"
54  # Last grep just above will remove false positives from
55  # substitutions that fit on one line.
56  # shellcheck disable=SC2312
57      find . -type f -name "${LFBFL_pattern}" -printf '%P\n'\
58          | relevant_find | not_main_html_find\
59          | while read -r LFBFL_file_name;
60      do
61          [[ -f "${LFBFL_file_name}" ]] || continue
62          LFBFL_base_file_name=$(basename "${LFBFL_file_name}")
63          [[ "${LFBFL_base_file_name}" != "check_URLs.libr.sh" ]]\
64              || continue
65          [[ "$1" != "-v" ]]\

```

```

66         || echo "Handling the file: ${LFBFL_file_name}"
67         for LFBFL_substitution in "${!LFBFL_substitutions[@]}"; do
68             LFBFL_substitution2=\
69             ${LFBFL_substitutions[$LFBFL_substitution]}
70             if grep -q "${LFBFL_substitution}" "${LFBFL_file_name}"; then
71                 sed -i "s|${LFBFL_substitution}|${LFBFL_substitution2}|g"\ \
72                 "${LFBFL_file_name}"
73             fi
74         done
75     done
76 done
77 }

```

## 2.5 build\_and\_checks\_dependencies/common\_build\_and\_checks.exec.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "common_build_and_checks.exec.sh.tpl" was renamed from
25 # "common_build_and_checks.sh.tpl" to
26 # "common_build_and_checks.exec.sh.tpl".
27 # The file "common_build_and_checks.exec.sh" generated from the file
28 # "common_build_and_checks.sh.tpl"
29 # or "common_build_and_checks.exec.sh.tpl"
30 # was renamed from
31 # "common_build_and_checks.sh" to "common_build_and_checks.exec.sh".

```

```

32
33 common_build_and_checks() {
34     # $1 LFBFL_working_directory
35     # $2 LFBFL_dependencies_URL
36     # $3 optional --verbose
37     declare -r LFBFL_working_directory="$1"
38     # declare -r LFBFL_dependencies_URL="$2" too long
39     declare -r LFBFL_start_URL="$2"
40     local LFBFL_verbose=""
41     if [[ "$3" == "--verbose" ]]; then
42         echo "$0 $*"
43         LFBFL_verbose="--verbose"
44     fi
45     readonly LFBFL_verbose
46
47     # shellcheck disable=SC1091
48     source ./wget_sha512.libr.sh
49
50     LFBFL_subdir="build_and_checks_dependencies"
51     local LFBFL_file_name
52     local LFBFL_URL
53     local LFBFL_file_path
54
55     LFBFL_file_name="build_md_from_printable_md.exec.sh"
56     # LFBFL_script_download_URL
57     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
58     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
59     local LFBFL_correct_sha512
60     LFBFL_correct_sha512='38ae695f213ef1c7470a707eaf84d9377e6e636098851'
61     LFBFL_correct_sha512+='0878ec6bc7b8f1d37a104816723a2de0327758dec492'
62     LFBFL_correct_sha512+='09b2f2535671580d1146b8576cd78bc683c3f2c'
63     wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
64         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
65     chmod +x "./${LFBFL_file_path}"
66
67     LFBFL_file_name="check_shell_scripts_beginnings.libr.sh"
68     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
69     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
70     local LFBFL_correct_sha512
71     LFBFL_correct_sha512='c07397f927063fbe31e973461b77d7844ccab1a0db498'
72     LFBFL_correct_sha512+='ae9282114f65e6faf3fbe4eb1cd220a1b029334e4f3b'
73     LFBFL_correct_sha512+='9139721bb3123b83512df8817c06c00d4a4d559'
74     wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
75         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
76
77     LFBFL_file_name="check_URLs.libr.sh"

```

```

78 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
79 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
80 local LFBFL_correct_sha512
81 LFBFL_correct_sha512='d966792d05fd23375f5006b5446b9b747a28f1ef1fe9d'
82 LFBFL_correct_sha512+='b6f8ff45caa36564bb18ddc38ba91e076bb3abceced2'
83 LFBFL_correct_sha512+='b899c7e5987a231c5165d6dacc9ec52cbe665f5'
84 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
85     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
86
87 LFBFL_file_name="comparisons.libr.sh"
88 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
89 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
90 local LFBFL_correct_sha512
91 LFBFL_correct_sha512='ffed791dabbaelb841fab8b34a2f6d74ec2fa058a1dd5'
92 LFBFL_correct_sha512+='010a2cd222f76811f594659bd60ab18839b2aab7d74b'
93 LFBFL_correct_sha512+='19641fdaf7668524b079280d46da62d491b7f70'
94 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
95     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
96
97 LFBFL_file_name="create_PDF.exec.sh"
98 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
99 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
100 local LFBFL_correct_sha512
101 LFBFL_correct_sha512='a0ef6e5f02e891f996a43c48b4d903035d05b449a9fc5'
102 LFBFL_correct_sha512+='5c0f93f17fec969ea4df73a5952c83249485e50ce4a'
103 LFBFL_correct_sha512+='0279d8be02474d603fac0e064369ad4303e32cf'
104 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
105     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
106 chmod +x "./\${LFBFL_file_path}"
107
108 LFBFL_file_name="generate_from_template.libr.sh"
109 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
110 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
111 local LFBFL_correct_sha512
112 LFBFL_correct_sha512='0e929f8a0b8e4f3797c9870fe577ddb6b9e3b31fb512'
113 LFBFL_correct_sha512+='be57e7484a4ffb2fc2b9e391504d86e0cc3fc9fe7512'
114 LFBFL_correct_sha512+='ec0ae6b2f5624276f943de8761677b5c0a7e9fb'
115 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
116     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
117
118 LFBFL_file_name="get_common_text_glob_patterns.libr.sh"
119 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
120 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
121 local LFBFL_correct_sha512
122 LFBFL_correct_sha512='2b87067b4fb0b3ca6c107fdf76cb605a4e9311375cc0e'
123 LFBFL_correct_sha512+='7d0735d4b6a2c182cf738a2f0b91b7210bfa63452943'

```

```

124 LFBFL_correct_sha512+='89930f17bebad69c64389e47afe8d74ec462216'
125 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
126     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
127
128 LFBFL_file_name="grammar_and_spell_check.libr.sh"
129 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
130 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
131 local LFBFL_correct_sha512
132 LFBFL_correct_sha512='a76c188a7769a1d170d415034331b1ca8574482bc1484'
133 LFBFL_correct_sha512+='eccbbb4cadea825c0668caccaca7433fa1c476137fe9'
134 LFBFL_correct_sha512+='f2a71ad6e0ee5bfbfd180bee5a775c997d79865'
135 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
136     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
137
138 # /licenses_templates/ -----
139 declare -r LFBFL_subdir2="${LFBFL_subdir}/licenses_templates"
140 declare -r LFBFL_start_URL2="${LFBFL_start_URL}/licenses_templates"
141 LFBFL_file_name="build_licenses_templates.exec.sh"
142 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
143 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}"
144 local LFBFL_correct_sha512
145 LFBFL_correct_sha512='4ed2aae7e86dba0170c5c3120d060b8af879b2d6941'
146 LFBFL_correct_sha512+='4e0975d3d5bcf5a9efdee91819aab5817963aa5ccbcb'
147 LFBFL_correct_sha512+='ad2d40b64bdb8c5419bf55694e569cd1b9866f'
148 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
149     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
150 chmod +x "./${LFBFL_file_path}"
151
152 LFBFL_file_name="license_file_header GPLv3+.tpl"
153 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
154 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}"
155 local LFBFL_correct_sha512
156 LFBFL_correct_sha512='9f9aa56d9b90d5003a12c5ec3370ac31aab74fc4a2524'
157 LFBFL_correct_sha512+='2c5fbcb0197b0abbb8242f62dafc76eaf60faa5da173'
158 LFBFL_correct_sha512+='05924b31b64b037083532fcfd9f98445000e2d0'
159 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
160     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
161
162 LFBFL_file_name="license_file_header GPLv3+.tpl"
163 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
164 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}"
165 local LFBFL_correct_sha512
166 LFBFL_correct_sha512='2bdef9a729a5a9ca5ed87ef8a518877c5ee6b31b45336'
167 LFBFL_correct_sha512+='08660316a4e595fb31465a4847f4d53a2f7264118bd4'
168 LFBFL_correct_sha512+='eab7c1d1892e00bc1861455ed02898f194db067'
169 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \

```

```

170      "${LFBFL_correct_sha512}" "${LFBFL_verbose}""
171
172  LFBFL_file_name="license_file_header_LGPLv3+.tpl"
173  LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
174  LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}"
175  local LFBFL_correct_sha512
176  LFBFL_correct_sha512='265fd0d086b48ab798f35a072335a4976e4eda8c256fe'
177  LFBFL_correct_sha512+='bba6c77c98ca86cdd844c6ac150c3445c80debbb3fc2'
178  LFBFL_correct_sha512+='574b5fceeeaf79ec734a759bdef5fe798067c62'
179  wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
180      "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
181  # -----
182
183  LFBFL_file_name="lines_counts.libr.sh"
184  LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
185  LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
186  local LFBFL_correct_sha512
187  LFBFL_correct_sha512='3e34b8768b4356adf397f3ca1f47ef8f44da42808ca8b'
188  LFBFL_correct_sha512+='b95b830fa8bd9be46bb3cb1f012736b7a6d53549f8a9'
189  LFBFL_correct_sha512+='f60274d6db5d9699bc28270a7d42deaaa6d6d6f'
190  wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
191      "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
192
193  LFBFL_file_name="lines_filters.libr.sh"
194  LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
195  LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
196  local LFBFL_correct_sha512
197  LFBFL_correct_sha512='61af110e6d03c7f86dc79361c37896e7e3d4fdea18a6d'
198  LFBFL_correct_sha512+='b5ffe196ad314422e8479dfb4707c176b249a55509ff'
199  LFBFL_correct_sha512+='8413cdf44e130c691200c1e646ce59db14e9b35'
200  wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
201      "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
202
203  LFBFL_file_name="lines_maps.libr.sh"
204  LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
205  LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
206  local LFBFL_correct_sha512
207  LFBFL_correct_sha512='ca4fbcc93c407de6aa742b0d5e4ee767d341777d60b3e8'
208  LFBFL_correct_sha512+='e08e8582bab5ee6b305d47e385c1701810691c46ec6'
209  LFBFL_correct_sha512+='a34b5f740b8304114f96ee7052da095ee09c789'
210  wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
211      "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
212
213  LFBFL_file_name="overwrite_if_not_equal.libr.sh"
214  LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
215  LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"

```

```

216 local LFBFL_correct_sha512
217 LFBFL_correct_sha512='c42cc8ec7a5e18c122442ddc954d0736aad8db61610cd'
218 LFBFL_correct_sha512+='a09ec62693a0638157985bc7208c42b61f463da3852e'
219 LFBFL_correct_sha512+='85c422c0012cc80660ecee5d30c4d13bc8a118d'
220 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
221     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
222
223 LFBFL_file_name="python_black_complement.libr.sh"
224 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
225 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
226 local LFBFL_correct_sha512
227 LFBFL_correct_sha512='e28c6e0cfffe6b8eebef26bddfb440f0303d0dcc3987'
228 LFBFL_correct_sha512+='6d498d95b9d589e0800b8381124936e5103b372f509c'
229 LFBFL_correct_sha512+='aeb6213e909710a2ec1e345e076a44f0006fdbb'
230 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
231     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
232
233 LFBFL_file_name="python_isort_complement.libr.sh"
234 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
235 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
236 local LFBFL_correct_sha512
237 LFBFL_correct_sha512='637cddfb803fd8866fa2ab1c72bbcd5b55e2c0068a14d'
238 LFBFL_correct_sha512+='b6140ee00435a69990a6c5e08b6f0bf13ac9574a9ead'
239 LFBFL_correct_sha512+='c59d9b5adcc8f6d99d4d56ca1cc5785c7b22835'
240 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
241     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
242
243 LFBFL_file_name="split_score.exec.php"
244 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
245 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
246 local LFBFL_correct_sha512
247 LFBFL_correct_sha512='2f7ff107a43716109b1acbd7d89870d05577af00a981a'
248 LFBFL_correct_sha512+='05f162a054c96387fb99544f8225c333b1212f74326c'
249 LFBFL_correct_sha512+='f9ec6196e796f6257dfbba9347ac8c57b4f09db'
250 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
251     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
252
253 LFBFL_file_name="split_score.libr.php"
254 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
255 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
256 local LFBFL_correct_sha512
257 LFBFL_correct_sha512='83f3eda17203b34c656353883806d3b2154911cc4d4f7'
258 LFBFL_correct_sha512+='592a42413dc9f24bbd08f72bc51d20f9ca26d06d6861'
259 LFBFL_correct_sha512+='6c40a2b08517ae25bb3bd87c33c28ab4bd8fdf8'
260 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
261     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

```

```

262
263 LFBFL_file_name="strings_functions.libr.sh"
264 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
265 LFBFL_file_path=". /\${LFBFL_subdir}/\${LFBFL_file_name}"
266 local LFBFL_correct_sha512
267 LFBFL_correct_sha512='90569be3419610c3ebff08c98ae9dfb4bdbed722767ab'
268 LFBFL_correct_sha512+='4ab5dab201bb8f88f8354fe3b6bff7a7ea9bc5b04a9d'
269 LFBFL_correct_sha512+='23071fad903ffd8e91ec50d0d3b2e5e9b6545fa'
270 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
271     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
272
273 LFBFL_file_name="too_long_code_lines.libr.sh"
274 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
275 LFBFL_file_path=". /\${LFBFL_subdir}/\${LFBFL_file_name}"
276 local LFBFL_correct_sha512
277 LFBFL_correct_sha512='69d3b3750ee5e119b3ce4b9a6a3420056fae903a28787'
278 LFBFL_correct_sha512+='0c6047df0883cf623925cc2774d1843996b91093611f'
279 LFBFL_correct_sha512+='97785dc3087769904aeffe3084887e97a736aed'
280 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
281     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
282
283 LFBFL_file_name="update_or_check_files_names_listing.exec.sh"
284 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
285 LFBFL_file_path=". /\${LFBFL_subdir}/\${LFBFL_file_name}"
286 local LFBFL_correct_sha512
287 LFBFL_correct_sha512='a0ec8202dcc962e5cbaf7908f285c9a182e6298dedaab'
288 LFBFL_correct_sha512+='af3d7b04369cf4e8639920b13b1dcc78d97bf195a202'
289 LFBFL_correct_sha512+='884d02c0c6c38982cf82ddcb673617d624ad900'
290 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
291     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
292 chmod +x ". /\${LFBFL_file_path}"
293
294 shopt -s globstar
295 # shellcheck disable=SC1090
296 source ". /\${LFBFL_subdir}/check_shell_scripts_beginnings.libr.sh"
297 # shellcheck disable=SC1090
298 source ". /\${LFBFL_subdir}/check_URLs.libr.sh"
299 # shellcheck disable=SC1090
300 source ". /\${LFBFL_subdir}/comparisons.libr.sh"
301 # shellcheck disable=SC1090
302 source ". /\${LFBFL_subdir}/generate_from_template.libr.sh"
303 # shellcheck disable=SC1090
304 source ". /\${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
305 # shellcheck disable=SC1090
306 source ". /\${LFBFL_subdir}/grammar_and_spell_check.libr.sh"
307 # shellcheck disable=SC1090

```

```

308 source "./${LFBFL_subdir}/lines_counts.libr.sh"
309 # shellcheck disable=SC1090
310 source "./${LFBFL_subdir}/lines_filters.libr.sh"
311 # shellcheck disable=SC1090
312 source "./${LFBFL_subdir}/lines_maps.libr.sh"
313 # shellcheck disable=SC1090
314 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
315 # shellcheck disable=SC1090
316 source "./${LFBFL_subdir}/python_black_complement.libr.sh"
317 # shellcheck disable=SC1090
318 source "./${LFBFL_subdir}/python_isort_complement.libr.sh"
319 # shellcheck disable=SC1090
320 source "./${LFBFL_subdir}/strings_functions.libr.sh"
321 # shellcheck disable=SC1090
322 source "./${LFBFL_subdir}/too_long_code_lines.libr.sh"
323
324 local LFBFL_data_file_name=\
325 "build_and_checks_variables/repository_data.txt"
326
327 declare -i LFBFL_upgrade_venvs=0
328 declare -r LFBFL_upgrade_venvs_ts_file=\
329 "build_and_checks_variables/upgrade_venvs_ts"
330 declare -i LFBFL_upgrade_venvs_ts
331 declare -i LFBFL_current_ts
332 local LFBFL_upgrade_venvs_answer
333
334 upgrade_venvs_time_interval_in_seconds=""
335 grep_variable "${LFBFL_data_file_name}" \
336     upgrade_venvs_time_interval_in_seconds
337 if [[ "${upgrade_venvs_time_interval_in_seconds}" == "wat" ]]; then
338     upgrade_venvs_time_interval_in_seconds=$((RANDOM))
339 fi
340 if
341     [[ "${upgrade_venvs_time_interval_in_seconds}" == "watyouwant?" ]];
342 then
343     upgrade_venvs_time_interval_in_seconds=$((SRANDOM))
344 fi
345
346 if [[ -f "${LFBFL_upgrade_venvs_ts_file}" ]]; then
347     LFBFL_upgrade_venvs_ts=\
348 $(stat -c %Y "${LFBFL_upgrade_venvs_ts_file}")
349     LFBFL_current_ts=$((date +%s))
350     ((LFBFL_current_ts-=LFBFL_upgrade_venvs_ts))
351     ((LFBFL_current_ts-=upgrade_venvs_time_interval_in_seconds))
352     if [[ LFBFL_current_ts -gt 0 ]]; then
353         LFBFL_upgrade_venvs=1

```

```

354     fi
355   else
356     LFBFL_upgrade_venvs=1
357   fi
358   if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
359     upgrade_venvs=""
360     grep_variable "${LFBFL_data_file_name}" upgrade_venvs
361     if [[ "$upgrade_venvs" != "auto" ]]; then
362       read -r -n 1 -t 10 -p "Upgrade venvs? [Y/n]" \
363         LFBFL_upgrade_venvs_answer
364       if [[ "${LFBFL_upgrade_venvs_answer}" == "n" ]]; then
365         LFBFL_upgrade_venvs=0
366       fi
367     fi
368   fi
369
370   echo "Building license headers"
371   "./${LFBFL_subdir2}/build_licenses_templates.exec.sh" \
372     "${LFBFL_verbose}"
373
374   echo "Building README.md"
375   "./${LFBFL_subdir}/build_md_from_printable_md.exec.sh" \
376     "${LFBFL_working_directory}" "README" "${LFBFL_verbose}"
377
378   pushd .
379   # shellcheck disable=SC2164
380   cd "${LFBFL_working_directory}"
381
382   echo "Running shellcheck"
383   declare -i LFBFL_file_path_length
384   declare -i LFBFL_to_skip_number
385   local LFBFL_file_path_end
386   # shellcheck disable=SC2312
387   find . -name "*.sh" | relevant_find | while read -r LFBFL_file_path;
388   do
389     LFBFL_file_path_length=${#LFBFL_file_path}
390     LFBFL_to_skip_number=$((LFBFL_file_path_length - 9))
391     LFBFL_file_path_end="${LFBFL_file_path:${LFBFL_to_skip_number}}"
392     if [[ "${LFBFL_file_path_end}" == "GPLv3+.sh" ]]; then
393       continue
394     fi
395     shellcheck --check-sourced --enable=all --external-sources \
396       "${LFBFL_file_path}"
397   done
398
399   echo "---Python---"

```

```

400 echo "Running isort"
401 isort_venv=""
402 grep_variable "${LFBFL_data_file_name}" isort_venv
403 if [[ -n "${isort_venv}" ]]; then
404     if command -v deactivate
405     then
406         deactivate
407     fi
408     # shellcheck disable=SC1090,SC1091
409     source "${isort_venv}/bin/activate"
410 fi
411 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
412     pip install --upgrade isort
413 fi
414 isort .
415 if [[ -n "${isort_venv}" ]]; then
416     deactivate
417 fi
418 python_isort_complement
419
420 echo "Running black"
421 black_venv=""
422 grep_variable "${LFBFL_data_file_name}" black_venv
423 if [[ -n "${black_venv}" ]]; then
424     if command -v deactivate
425     then
426         deactivate
427     fi
428     # shellcheck disable=SC1090,SC1091
429     source "${black_venv}/bin/activate"
430 fi
431 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
432     pip install --upgrade black
433 fi
434 black .
435 if [[ -n "${black_venv}" ]]; then
436     deactivate
437 fi
438 python_black_complement
439
440 mypy_venv=""
441 grep_variable "${LFBFL_data_file_name}" mypy_venv
442 if [[ -n "${mypy_venv}" ]]; then
443     if command -v deactivate
444     then
445         deactivate

```

```

446     fi
447     # shellcheck disable=SC1090,SC1091
448     source "${mypy_venv}/bin/activate"
449   fi
450   if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
451     pip install --upgrade mypy
452   fi
453   shopt -s lastpipe
454   local LFBFL_directory_path
455   declare -i LFBFL_no_toml=1
456   # shellcheck disable=SC2312
457   find . -name "pyproject.toml" | relevant_find\
458     | while read -r LFBFL_file_path;
459   do
460     if grep -q "Typing :: Typed" "${LFBFL_file_path}"; then
461       echo "Running mypy"
462       LFBFL_directory_path=$(dirname "${LFBFL_file_path}")
463       mypy "${LFBFL_directory_path}"
464     fi
465     LFBFL_no_toml=0
466   done
467   if [[ LFBFL_no_toml -eq 1 ]]; then
468     echo "Running mypy"
469     mypy .
470   fi
471   if [[ -n "${mypy_venv}" ]]; then
472     deactivate
473   fi
474
475   echo "Running bandit"
476   bandit_venv=""
477   grep_variable "${LFBFL_data_file_name}" bandit_venv
478   if [[ -n "${bandit_venv}" ]]; then
479     if command -v deactivate
480     then
481       deactivate
482     fi
483     # shellcheck disable=SC1090,SC1091
484     source "${bandit_venv}/bin/activate"
485   fi
486   if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
487     pip install --upgrade bandit
488   fi
489   bandit --ini build_and_checks_variables/bandit.ini\
490     -b build_and_checks_variables/bandit_baseline.json\
491     -r .

```

```

492 # Saving new baseline in temp if necessary.
493 bandit --ini build_and_checks_variables/bandit.ini \
494     -f json -o build_and_checks_variables/temp/bandit_baseline.json \
495     -r .
496 if [[ -n "${bandit_venv}" ]]; then
497     deactivate
498 fi
499
500 echo "Running pylint"
501 pylint_venv=""
502 grep_variable "${LFBFL_data_file_name}" pylint_venv
503 if [[ -n "${pylint_venv}" ]]; then
504     if command -v deactivate
505     then
506         deactivate
507     fi
508     # shellcheck disable=SC1090,SC1091
509     source "${pylint_venv}/bin/activate"
510 fi
511 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
512     pip install --upgrade pylint
513 fi
514 pylint --rcfile build_and_checks_variables/pylintrc.toml \
515     --recursive=y .
516 if [[ -n "${pylint_venv}" ]]; then
517     deactivate
518 fi
519 echo "---Python end---"
520
521 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
522     touch "${LFBFL_upgrade_venvs_ts_file}"
523 fi
524
525 echo "Analyzing too long lines"
526 # shellcheck disable=SC2312
527 too_long_code_lines | relevant_grep | not_license_grep
528
529 echo "Analyzing shell scripts beginnings"
530 # shellcheck disable=SC2312
531 check_shell_scripts_beginnings | relevant_grep
532
533 echo "Analyzing URLs"
534 # shellcheck disable=SC2312
535 check_URLs | relevant_grep
536
537 echo "Analyzing strange characters: hover over in doubt"

```

```

538 # shellcheck disable=SC1111
539 LFBFL_usual_characters="\x00-\x7Fàâéèëïïôûç©“”└_|«»"
540 # shellcheck disable=SC2312
541 grep --exclude-dir .git --color=always\
542     -nPr "[^${LFBFL_usual_characters}]" .
543
544 echo "Checking listed files"
545 "./${LFBFL_subdir}/update_or_check_files_names_listing.exec.sh"
546
547 echo "Creating the PDF file of the listing of the source code"
548 "./${LFBFL_subdir}/create_PDF.exec.sh" "${LFBFL_verbose}"
549
550 # shellcheck disable=SC2164
551 popd
552 }
553 common_build_and_checks "$@"

```

## 2.6 build\_and\_checks\_dependencies/common\_build\_and\_checks.exec.sh.tpl

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "common_build_and_checks.exec.sh.tpl" was renamed from
25 # "common_build_and_checks.sh.tpl" to
26 # "common_build_and_checks.exec.sh.tpl".

```

```

27 # The file "common_build_and_checks.exec.sh" generated from the file
28 # "common_build_and_checks.sh.tpl"
29 # or "common_build_and_checks.exec.sh.tpl"
30 # was renamed from
31 # "common_build_and_checks.sh" to "common_build_and_checks.exec.sh".
32
33 common_build_and_checks() {
34     # $1 LFBFL_working_directory
35     # $2 LFBFL_dependencies_URL
36     # $3 optional --verbose
37     declare -r LFBFL_working_directory="$1"
38     # declare -r LFBFL_dependencies_URL="$2" too long
39     declare -r LFBFL_start_URL="$2"
40     local LFBFL_verbose=""
41     if [[ "$3" == "--verbose" ]]; then
42         echo "$0 $*"
43         LFBFL_verbose="--verbose"
44     fi
45     readonly LFBFL_verbose
46
47     # shellcheck disable=SC1091
48     source ./wget_sha512.libr.sh
49
50     LFBFL_subdir="build_and_checks_dependencies"
51     local LFBFL_file_name
52     local LFBFL_URL
53     local LFBFL_file_path
54
55     LFBFL_file_name="build_md_from_printable_md.exec.sh"
56     # LFBFL_script_download_URL
57     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
58     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
59     @sha512_build_md_from_printable_md.exec.sh@
60     wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
61         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
62     chmod +x "./${LFBFL_file_path}"
63
64     LFBFL_file_name="check_shell_scripts_beginnings.libr.sh"
65     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
66     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
67     @sha512_check_shell_scripts_beginnings.libr.sh@
68     wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
69         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
70
71     LFBFL_file_name="check_URLs.libr.sh"
72     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"

```

```

73 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
74 @sha512_check_URLs.libr.sh@
75 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
76   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
77
78 LFBFL_file_name="comparisons.libr.sh"
79 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
80 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
81 @sha512_comparisons.libr.sh@
82 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
83   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
84
85 LFBFL_file_name="create_PDF.exec.sh"
86 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
87 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
88 @sha512_create_PDF.exec.sh@
89 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
90   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
91 chmod +x "./${LFBFL_file_path}"
92
93 LFBFL_file_name="generate_from_template.libr.sh"
94 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
95 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
96 @sha512_generate_from_template.libr.sh@
97 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
98   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
99
100 LFBFL_file_name="get_common_text_glob_patterns.libr.sh"
101 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
102 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
103 @sha512_get_common_text_glob_patterns.libr.sh@
104 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
105   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
106
107 LFBFL_file_name="grammar_and_spell_check.libr.sh"
108 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
109 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
110 @sha512_grammar_and_spell_check.libr.sh@
111 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
112   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
113
114 # /licenses_templates/ -----
115 declare -r LFBFL_subdir2="${LFBFL_subdir}/licenses_templates"
116 declare -r LFBFL_start_URL2="${LFBFL_start_URL}/licenses_templates"
117 LFBFL_file_name="build_licenses_templates.exec.sh"
118 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"

```

```

119 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}""
120 @sha512_build_licenses_templates.exec.sh@
121 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
122     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
123 chmod +x "${LFBFL_file_path}"

124
125 LFBFL_file_name="license_file_header GPLv3+.tpl"
126 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
127 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}""
128 @sha512_license_file_header GPLv3+.tpl@
129 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
130     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

131
132 LFBFL_file_name="license_file_header GPLv3+.tpl"
133 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
134 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}""
135 @sha512_license_file_header GPLv3+.tpl@
136 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
137     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

138
139 LFBFL_file_name="license_file_header LGPLv3+.tpl"
140 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
141 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}""
142 @sha512_license_file_header LGPLv3+.tpl@
143 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
144     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
145 # -----
146
147 LFBFL_file_name="lines_counts.libr.sh"
148 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
149 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
150 @sha512_lines_counts.libr.sh@
151 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
152     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

153
154 LFBFL_file_name="lines_filters.libr.sh"
155 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
156 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
157 @sha512_lines_filters.libr.sh@
158 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
159     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

160
161 LFBFL_file_name="lines_maps.libr.sh"
162 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
163 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
164 @sha512_lines_maps.libr.sh@
```

```

165 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
166     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
167
168 LFBFL_file_name="overwrite_if_not_equal.libr.sh"
169 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
170 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
171 @sha512_overwrite_if_not_equal.libr.sh@ \
172 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
173     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
174
175 LFBFL_file_name="python_black_complement.libr.sh"
176 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
177 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
178 @sha512_python_black_complement.libr.sh@ \
179 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
180     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
181
182 LFBFL_file_name="python_isort_complement.libr.sh"
183 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
184 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
185 @sha512_python_isort_complement.libr.sh@ \
186 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
187     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
188
189 LFBFL_file_name="split_score.exec.php"
190 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
191 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
192 @sha512_split_score.exec.php@ \
193 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
194     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
195
196 LFBFL_file_name="split_score.libr.php"
197 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
198 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
199 @sha512_split_score.libr.php@ \
200 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
201     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
202
203 LFBFL_file_name="strings_functions.libr.sh"
204 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
205 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
206 @sha512_strings_functions.libr.sh@ \
207 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
208     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
209
210 LFBFL_file_name="too_long_code_lines.libr.sh"

```

```

211 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
212 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
213 @sha512_too_long_code_lines.libr.sh@
214 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
215     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
216
217 LFBFL_file_name="update_or_check_files_names_listing.exec.sh"
218 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
219 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
220 @sha512_update_or_check_files_names_listing.exec.sh@
221 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
222     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
223 chmod +x "./\${LFBFL_file_path}"
224
225 shopt -s globstar
226 # shellcheck disable=SC1090
227 source "./\${LFBFL_subdir}/check_shell_scripts_beginnings.libr.sh"
228 # shellcheck disable=SC1090
229 source "./\${LFBFL_subdir}/check_URLs.libr.sh"
230 # shellcheck disable=SC1090
231 source "./\${LFBFL_subdir}/comparisons.libr.sh"
232 # shellcheck disable=SC1090
233 source "./\${LFBFL_subdir}/generate_from_template.libr.sh"
234 # shellcheck disable=SC1090
235 source "./\${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
236 # shellcheck disable=SC1090
237 source "./\${LFBFL_subdir}/grammar_and_spell_check.libr.sh"
238 # shellcheck disable=SC1090
239 source "./\${LFBFL_subdir}/lines_counts.libr.sh"
240 # shellcheck disable=SC1090
241 source "./\${LFBFL_subdir}/lines_filters.libr.sh"
242 # shellcheck disable=SC1090
243 source "./\${LFBFL_subdir}/lines_maps.libr.sh"
244 # shellcheck disable=SC1090
245 source "./\${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
246 # shellcheck disable=SC1090
247 source "./\${LFBFL_subdir}/python_black_complement.libr.sh"
248 # shellcheck disable=SC1090
249 source "./\${LFBFL_subdir}/python_isort_complement.libr.sh"
250 # shellcheck disable=SC1090
251 source "./\${LFBFL_subdir}/strings_functions.libr.sh"
252 # shellcheck disable=SC1090
253 source "./\${LFBFL_subdir}/too_long_code_lines.libr.sh"
254
255 local LFBFL_data_file_name=\"
256 "build_and_checks_variables/repository_data.txt"

```

```

257
258     declare -i LFBFL_upgrade_venvs=0
259     declare -r LFBFL_upgrade_venvs_ts_file=\"
260 "build_and_checks_variables/upgrade_venvs_ts"
261     declare -i LFBFL_upgrade_venvs_ts
262     declare -i LFBFL_current_ts
263     local LFBFL_upgrade_venvs_answer
264
265     upgrade_venvs_time_interval_in_seconds=""
266     grep_variable "${LFBFL_data_file_name}" \
267         upgrade_venvs_time_interval_in_seconds
268     if [[ "${upgrade_venvs_time_interval_in_seconds}" == "wat" ]]; then
269         upgrade_venvs_time_interval_in_seconds=$((RANDOM))
270     fi
271     if
272         [[ "${upgrade_venvs_time_interval_in_seconds}" == "watyouwant?" ]];
273     then
274         upgrade_venvs_time_interval_in_seconds=$((SRANDOM))
275     fi
276
277     if [[ -f "${LFBFL_upgrade_venvs_ts_file}" ]]; then
278         LFBFL_upgrade_venvs_ts=\
279     $(stat -c %Y "${LFBFL_upgrade_venvs_ts_file}")
280         LFBFL_current_ts=$(date +%s)
281         ((LFBFL_current_ts-=LFBFL_upgrade_venvs_ts))
282         ((LFBFL_current_ts-=upgrade_venvs_time_interval_in_seconds))
283         if [[ LFBFL_current_ts -gt 0 ]]; then
284             LFBFL_upgrade_venvs=1
285         fi
286     else
287         LFBFL_upgrade_venvs=1
288     fi
289     if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
290         upgrade_venvs=""
291         grep_variable "${LFBFL_data_file_name}" upgrade_venvs
292         if [[ "${upgrade_venvs}" != "auto" ]]; then
293             read -r -n 1 -t 10 -p "Upgrade venvs? [Y/n]" \
294                 LFBFL_upgrade_venvs_answer
295             if [[ "${LFBFL_upgrade_venvs_answer}" == "n" ]]; then
296                 LFBFL_upgrade_venvs=0
297             fi
298         fi
299     fi
300
301     echo "Building license headers"
302     "./${LFBFL_subdir2}/build_licenses_templates.exec.sh" \

```

```

303     "${LFBFL_verbose}"
304
305 echo "Building README.md"
306 "./${LFBFL_subdir}/build_md_from_printable_md.exec.sh" \
307     "${LFBFL_working_directory}" "README" "${LFBFL_verbose}"
308
309 pushd .
310 # shellcheck disable=SC2164
311 cd "${LFBFL_working_directory}"
312
313 echo "Running shellcheck"
314 declare -i LFBFL_file_path_length
315 declare -i LFBFL_to_skip_number
316 local LFBFL_file_path_end
317 # shellcheck disable=SC2312
318 find . -name "*.sh" | relevant_find | while read -r LFBFL_file_path;
319 do
320     LFBFL_file_path_length=${#LFBFL_file_path}
321     LFBFL_to_skip_number=$((LFBFL_file_path_length - 9))
322     LFBFL_file_path_end="${LFBFL_file_path}:${LFBFL_to_skip_number}"
323     if [[ "${LFBFL_file_path_end}" == "GPLv3+.sh" ]]; then
324         continue
325     fi
326     shellcheck --check-sourced --enable=all --external-sources\
327         "${LFBFL_file_path}"
328 done
329
330 echo "---Python---"
331 echo "Running isort"
332 isort_venv=""
333 grep_variable "${LFBFL_data_file_name}" isort_venv
334 if [[ -n "${isort_venv}" ]]; then
335     if command -v deactivate
336     then
337         deactivate
338     fi
339     # shellcheck disable=SC1090,SC1091
340     source "${isort_venv}/bin/activate"
341 fi
342 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
343     pip install --upgrade isort
344 fi
345 isort .
346 if [[ -n "${isort_venv}" ]]; then
347     deactivate
348 fi

```

```

349 python_isort_complement
350
351 echo "Running black"
352 black_venv=""
353 grep_variable "${LFBFL_data_file_name}" black_venv
354 if [[ -n "${black_venv}" ]]; then
355     if command -v deactivate
356     then
357         deactivate
358     fi
359     # shellcheck disable=SC1090,SC1091
360     source "${black_venv}/bin/activate"
361 fi
362 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
363     pip install --upgrade black
364 fi
365 black .
366 if [[ -n "${black_venv}" ]]; then
367     deactivate
368 fi
369 python_black_complement
370
371 mypy_venv=""
372 grep_variable "${LFBFL_data_file_name}" mypy_venv
373 if [[ -n "${mypy_venv}" ]]; then
374     if command -v deactivate
375     then
376         deactivate
377     fi
378     # shellcheck disable=SC1090,SC1091
379     source "${mypy_venv}/bin/activate"
380 fi
381 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
382     pip install --upgrade mypy
383 fi
384 shopt -s lastpipe
385 local LFBFL_directory_path
386 declare -i LFBFL_no_toml=1
387 # shellcheck disable=SC2312
388 find . -name "pyproject.toml" | relevant_find\
389     | while read -r LFBFL_file_path;
390 do
391     if grep -q "Typing :: Typed" "${LFBFL_file_path}"; then
392         echo "Running mypy"
393         LFBFL_directory_path=$(dirname "${LFBFL_file_path}")
394         mypy "${LFBFL_directory_path}"

```

```

395     fi
396     LFBFL_no_toml=0
397 done
398 if [[ LFBFL_no_toml -eq 1 ]]; then
399     echo "Running mypy"
400     mypy .
401 fi
402 if [[ -n "${mypy_venv}" ]]; then
403     deactivate
404 fi
405
406 echo "Running bandit"
407 bandit_venv=""
408 grep_variable "${LFBFL_data_file_name}" bandit_venv
409 if [[ -n "${bandit_venv}" ]]; then
410     if command -v deactivate
411     then
412         deactivate
413     fi
414     # shellcheck disable=SC1090,SC1091
415     source "${bandit_venv}/bin/activate"
416 fi
417 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
418     pip install --upgrade bandit
419 fi
420 bandit --ini build_and_checks_variables/bandit.ini \
421     -b build_and_checks_variables/bandit_baseline.json \
422     -r .
423 # Saving new baseline in temp if necessary.
424 bandit --ini build_and_checks_variables/bandit.ini \
425     -f json -o build_and_checks_variables/temp/bandit_baseline.json \
426     -r .
427 if [[ -n "${bandit_venv}" ]]; then
428     deactivate
429 fi
430
431 echo "Running pylint"
432 pylint_venv=""
433 grep_variable "${LFBFL_data_file_name}" pylint_venv
434 if [[ -n "${pylint_venv}" ]]; then
435     if command -v deactivate
436     then
437         deactivate
438     fi
439     # shellcheck disable=SC1090,SC1091
440     source "${pylint_venv}/bin/activate"

```

```

441     fi
442     if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
443         pip install --upgrade pylint
444     fi
445     pylint --rcfile build_and_checks_variables/pylintrc.toml \
446         --recursive=y .
447     if [[ -n "${pylint_venv}" ]]; then
448         deactivate
449     fi
450     echo "---Python end---"
451
452     if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
453         touch "${LFBFL_upgrade_venvs_ts_file}"
454     fi
455
456     echo "Analyzing too long lines"
457     # shellcheck disable=SC2312
458     too_long_code_lines | relevant_grep | not_license_grep
459
460     echo "Analyzing shell scripts beginnings"
461     # shellcheck disable=SC2312
462     check_shell_scripts_beginnings | relevant_grep
463
464     echo "Analyzing URLs"
465     # shellcheck disable=SC2312
466     check_URLs | relevant_grep
467
468     echo "Analyzing strange characters: hover over in doubt"
469     # shellcheck disable=SC1111
470     LFBFL_usual_characters="\x00-\x7Fàâéèëïîôûç©“”└┘|«»"
471     # shellcheck disable=SC2312
472     grep --exclude-dir .git --color=always \
473         -nPf "[^${LFBFL_usual_characters}]" .
474
475     echo "Checking listed files"
476     "./${LFBFL_subdir}/update_or_check_files_names_listing.exec.sh"
477
478     echo "Creating the PDF file of the listing of the source code"
479     "./${LFBFL_subdir}/create_PDF.exec.sh" "${LFBFL_verbose}"
480
481     # shellcheck disable=SC2164
482     popd
483 }
484
485 common_build_and_checks "$@"

```

## 2.7 build\_and\_checks\_dependencies/comparisons.libr.sh

```
1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "comparisons.sh" was renamed to "comparisons.libr.sh".
25
26 equal() {
27     # Returns 1 if all the arguments strings are equal.
28     # Renvoie 1 dans $? si toutes les chaînes en arguments sont égales.
29     # J'ai rerepensé au 3-way-merge
30     # et à mon article sur le principe de première différence
31     # appliqué à la largeur modulaire, de clique ou de rang avec
32     # l'idée d'un principe de première différence ternaire.
33     declare -r LFBFL_all_args="$*"
34     local LFBFL_current="${LFBFL_all_args}"
35     local LFBFL_arg
36     for LFBFL_arg in "$@"; do
37         if [[ "${LFBFL_current}" == "${LFBFL_all_args}" ]]; then
38             LFBFL_current="${LFBFL_arg}"
39             continue
40         fi
41         if [[ "${LFBFL_current}" != "${LFBFL_arg}" ]]; then
42             return 0
43         fi
44     done
```

```

45     return 1
46 }
47
48 max() {
49     # Returns the maximum string among the arguments.
50     # Renvoie la chaîne la plus grande parmi celles proposées.
51     # $1=$sort command with the flags you want to be applied.
52     # $ max sort a b c
53     # C
54     if [[ "$#" == 0 ]]; then
55         return 1
56     fi
57     # shellcheck disable=SC2312
58     printf "%s\n" "${@:2}" | eval "$1 -r" | head -1
59 }
60
61 min(){
62     # Returns the minimum string among the arguments.
63     # Renvoie la chaîne la plus petite parmi celles proposées.
64     # $1=$sort command with the flags you want to be applied.
65     # $ min sort a b c
66     # a
67     if [[ "$#" == 0 ]]; then
68         return 1
69     fi
70     # shellcheck disable=SC2312
71     printf "%s\n" "${@:2}" | eval "$1" | head -1
72 }
73
74 is_substring(){
75     # $1=$string
76     # $2=$substring
77     declare -r LFBFL_var_1=$(
78         echo "$1" | sed -e 's/\\/\\&/g' -e "s/'/\\\\\\&/g" \
79     )
80     declare -r LFBFL_var_2=$(
81         echo "$2" | sed -e 's/\\/\\&/g' -e "s/'/\\\\\\&/g" \
82     )
83     local LFBFL_var_3="\$a = '${LFBFL_var_1}';"
84     LFBFL_var_3+=" \$b = preg_quote('${LFBFL_var_2}');"
85     LFBFL_var_3+=" \$c = '/' . addslashes(\$b, '/'). '/';"
86     LFBFL_var_3+=" die(1 - preg_match(\$c, \$a));"
87     readonly LFBFL_var_3
88     php -r "${LFBFL_var_3}"
89     return $?
90 }

```

```

91
92  is_subfile() {
93      # $1=$file_name
94      # $2=$sub_file_name
95      local LFBFL_var_1="$a = file_get_contents('$1');"
96      LFBFL_var_1+=" \$b = preg_quote(file_get_contents('$2'));""
97      LFBFL_var_1+=" \$c = '/'.addcslashes(\$b, '/').'/';""
98      LFBFL_var_1+=" die(1 - preg_match(\$c, \$a));"
99      readonly LFBFL_var_1
100     php -r "${LFBFL_var_1}"
101     return $?
102 }
103
104 alias min_from_int_sort="min 'sort --numeric-sort'"
105 alias max_from_int_sort="max 'sort --numeric-sort'"

```

## 2.8 build\_and\_checks\_dependencies/create\_PDF.exec.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "create_PDF.sh" to "create_PDF.exec.sh".
25
26 LFBFL_verbose=""
27 if [[ "$1" == "--verbose" ]]; then
28     echo "$0 $*"

```

```

29     LFBFL_verbose="--verbose"
30 fi
31
32 LFBFL_subdir="build_and_checks_dependencies"
33 # shellcheck disable=SC1090
34 source "./${LFBFL_subdir}/generate_from_template.libr.sh"
35 # shellcheck disable=SC1090
36 source "./${LFBFL_subdir}/lines_counts.libr.sh"
37 # shellcheck disable=SC1090
38 source "./${LFBFL_subdir}/lines_filters.libr.sh"
39 # shellcheck disable=SC1090
40 source "./${LFBFL_subdir}/lines_maps.libr.sh"
41 # shellcheck disable=SC1090
42 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
43 # shellcheck disable=SC1090
44 source "./${LFBFL_subdir}/strings_functions.libr.sh"
45 LFBFL_subdir2="build_and_checks_variables"
46
47 LFBFL_data_file_name="build_and_checks_variables/repository_data.txt"
48 repository_name=""
49 grep_variable "${LFBFL_data_file_name}" repository_name
50
51 abstract=""
52 grep_variable "${LFBFL_data_file_name}" abstract
53
54 acknowledgments=""
55 grep_variable "${LFBFL_data_file_name}" acknowledgments
56
57 author_email=""
58 grep_variable "${LFBFL_data_file_name}" author_email
59
60 author_full_name=""
61 grep_variable "${LFBFL_data_file_name}" author_full_name
62
63 author_website=""
64 grep_variable "${LFBFL_data_file_name}" author_website
65
66 # shellcheck disable=SC2155
67 declare -r LFBFL_current_date=$(date -I"date")
68
69 # shellcheck disable=SC2155
70 declare -r LFBFL_current_git_SHA1=$(git rev-parse HEAD)
71
72 # shellcheck disable=SC2155
73 declare -r LFBFL_number_of_commits=$((
74     git shortlog | space_starting_lines | wc -l

```

```

75    )
76
77 LFBFL_number_of_lines=$(code_lines_count_all) total lines,"
78 LFBFL_number_of_lines+=" $(code_lines_count_not_empty)"
79 LFBFL_number_of_lines+=" not empty lines,"
80 LFBFL_number_of_lines+=" $(code_lines_count_empty) empty lines."
81
82 # shellcheck disable=SC2094,SC2312
83 tree -a --gitignore \
84   -I "node_modules/" \
85   -I "__pycache__/" \
86   -I ".mypy_cache/" \
87   -I ".git/" \
88   | replace_non_ascii_spaces \
89   > "${LFBFL_subdir2}/temp/current_tree_light.txt"
90
91 # shellcheck disable=SC2094,SC2312
92 tree -a -DFh --gitignore \
93   -I "node_modules/" \
94   -I "__pycache__/" \
95   -I ".mypy_cache/" \
96   -I ".git/" \
97   | replace_non_ascii_spaces \
98   > "${LFBFL_subdir2}/temp/current_tree.txt.temp"
99
100 LFBFL_temp_files_listing="./${LFBFL_subdir2}/temp/"
101 LFBFL_temp_files_listing+="files_listing.tex.tpl.temp"
102 : > "${LFBFL_temp_files_listing}"
103 LFBFL_temp_files_listing2="./${LFBFL_subdir2}/temp/"
104 LFBFL_temp_files_listing2+="files_listing.html.tpl.temp"
105 : > "${LFBFL_temp_files_listing2}"
106 LFBFL_temp_files_lis="./${LFBFL_subdir2}/temp/files_lis.html.tpl"
107 : > "${LFBFL_temp_files_lis}"
108 get_split_score_simple 1 70 /
109 # shellcheck disable=SC2154
110 declare LFBFL_score_command="${get_split_score_result}"
111 # shellcheck disable=SC2154
112 declare LFBFL_score_command_properties="${get_split_score_result2}"
113 get_split_score_simple 1 70 ':'
114 # shellcheck disable=SC2154
115 declare LFBFL_score_command2="${get_split_score_result}"
116 declare LFBFL_score_command_properties2="${get_split_score_result2}"
117 declare LFBFL_suffix='%'
118 declare LFBFL_sed_expression='s/\n//Mg'
119 declare -i LFBFL_i=0
120 declare LFBFL_suffix2='<!--'

```

```

121 declare LFBFL_prefix2='-->'
122 # shellcheck disable=SC2312
123 sed -Ez "${LFBFL_sed_expression}" \
124   ./${LFBFL_subdir2}/files_names_listing.txt" \
125   | sed -Ez "${LFBFL_sed_expression}" \
126   | sed -Ez "${LFBFL_sed_expression}" \
127   | sed -Ez "${LFBFL_sed_expression}" \
128   | grep -v '^//'\
129   | while read -r LFBFL_file_name;
130 do
131   echo "Listing file for tex/HTML : ${LFBFL_file_name}"
132   # echo "Listing file for tex : ${LFBFL_file_name}"
133   # LFBFL_base_file_name=${(basename "${LFBFL_file_name}")}"
134   LFBFL_cleaned_path1="${LFBFL_file_name//_\\_\_}"
135   LFBFL_cleaned_path2=$(
136     sed -e 's//:/g' -e 's/\./g' <(echo "${LFBFL_file_name}")
137   )
138   echo "\subsection{" >> "${LFBFL_temp_files_listing}"
139   LFBFL_new_lines=" ${LFBFL_cleaned_path1}"
140   if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
141     repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
142       "${LFBFL_suffix}" "${LFBFL_score_command}" \
143       "${LFBFL_score_command_properties}" "\\"
144   # shellcheck disable=SC2154
145   LFBFL_new_lines=${repeated_split_last_line_result}
146 fi
147 # shellcheck disable=SC2129,SC2312
148 echo " ${LFBFL_file_name}" \
149   | sed -e "s| ${LFBFL_file_name}|${LFBFL_new_lines}|g" \
150   -e 's/_\\_\_g'
151   >> "${LFBFL_temp_files_listing}"
152 echo "}" >> "${LFBFL_temp_files_listing}"
153 echo "\label{" >> "${LFBFL_temp_files_listing}"
154 LFBFL_new_lines=" ${LFBFL_cleaned_path2}"
155 if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
156   repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
157     "${LFBFL_suffix}" "${LFBFL_score_command2}" \
158     "${LFBFL_score_command_properties2}"
159   # shellcheck disable=SC2154
160   LFBFL_new_lines=${repeated_split_last_line_result}
161 fi
162 # shellcheck disable=SC2129,SC2312
163 echo " ${LFBFL_cleaned_path2}" \
164   | sed -e "s| ${LFBFL_cleaned_path2}|${LFBFL_new_lines}|g" \
165   >> "${LFBFL_temp_files_listing}"
166 echo "}" >> "${LFBFL_temp_files_listing}"

```

```

167 echo "" >> "${LFBFL_temp_files_listing}"
168 echo "\VerbatimInput[numbers=left,xleftmargin=-5mm] {" \
169   >> "${LFBFL_temp_files_listing}""
170 LFBFL_new_lines="${LFBFL_file_name}"
171 if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
172   repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
173     "${LFBFL_suffix}" "${LFBFL_score_command}" \
174     "${LFBFL_score_command_properties}"
175   # shellcheck disable=SC2154
176   LFBFL_new_lines=${repeated_split_last_line_result}
177 fi
178 # shellcheck disable=SC2129,SC2312
179 echo " ${LFBFL_file_name}" \
180   | sed -e "s| ${LFBFL_file_name}|${LFBFL_new_lines}|g" \
181   >> "${LFBFL_temp_files_listing}"
182 echo ")" >> "${LFBFL_temp_files_listing}"
183 echo "" >> "${LFBFL_temp_files_listing}"
184 echo "" >> "${LFBFL_temp_files_listing}"
185
186 # echo "Listing file for HTML : ${LFBFL_file_name}"
187 ((++LFBFL_i))
188 echo "<h3 id=\"$subsection2.${LFBFL_i}\">>2.${LFBFL_i}" \
189   >> "${LFBFL_temp_files_listing2}"
190 LFBFL_new_lines="${LFBFL_file_name}"
191 if [[ ${#LFBFL_file_name} -gt 70 ]]; then
192   repeated_split_last_line "${LFBFL_new_lines}" "${LFBFL_prefix2}" \
193     70 "${LFBFL_suffix2}" "${LFBFL_score_command}" \
194     "${LFBFL_score_command_properties}"
195   # shellcheck disable=SC2154
196   LFBFL_new_lines=${repeated_split_last_line_result}
197 fi
198 # shellcheck disable=SC2001,SC2129,SC2312
199 echo "${LFBFL_file_name}" \
200   | sed -e "s|${LFBFL_file_name}|${LFBFL_new_lines}|g" \
201   >> "${LFBFL_temp_files_listing2}"
202 echo "</h3>" >> "${LFBFL_temp_files_listing2}"
203 echo "<pre class=\"numbered_lines\">" \
204   >> "${LFBFL_temp_files_listing2}"
205 sed -e 's/&/&#38;/g' -e 's/</&lt;/g' < "${LFBFL_file_name}" \
206   >> "${LFBFL_temp_files_listing2}"
207 echo "</pre>" >> "${LFBFL_temp_files_listing2}"
208 echo "" >> "${LFBFL_temp_files_listing2}"
209 echo "" >> "${LFBFL_temp_files_listing2}"
210
211 # shellcheck disable=SC2129
212 echo "      <li><a href=\"$subsection2.${LFBFL_i}\">>" \

```

```

213     >> "${LFBFL_temp_files_lis}"
214 # shellcheck disable=SC2001
215 echo "${LFBFL_file_name}" \
216     | sed -e "s|${LFBFL_file_name}|${LFBFL_new_lines}|g" \
217     >> "${LFBFL_temp_files_lis}"
218 echo "      </a></li>" >> "${LFBFL_temp_files_lis}"
219 done
220 overwrite_if_not_equal "./${LFBFL_subdir2}/files_listing.tex.tpl" \
221     "${LFBFL_temp_files_listing}"
222 sed -i -e "s|\n</pre>|</pre>g" "${LFBFL_temp_files_listing2}"
223 overwrite_if_not_equal \
224     "./${LFBFL_subdir2}/temp/files_listing.html.tpl" \
225     "${LFBFL_temp_files_listing2}"
226
227 # We verify if some lines are beyond 70 characters
228 # in current_tree_light.txt and current_tree.txt.
229 LFBFL_trees=("current_tree_light.txt" "current_tree.txt.temp")
230 declare LFBFL_tree_path
231 for LFBFL_tree in "${LFBFL_trees[@]}"; do
232     LFBFL_tree_path="${LFBFL_subdir2}/temp/${LFBFL_tree}"
233     # shellcheck disable=SC2312
234     grep '.\{71\}' "${LFBFL_tree_path}" | while read -r LFBFL_line; do
235         # echo "LFBFL_line: ${LFBFL_line}"
236         # shellcheck disable=SC2312
237         LFBFL_prefix=$\
238             echo "${LFBFL_line}" \
239             | sed -E -e 's/(.*)-[^-]+$/\1/g' -e 's/[^\ ]+$/ /g' \
240         )
241         LFBFL_prefix+=" "
242         # echo "LFBFL_prefix: ${LFBFL_prefix}"
243         # shellcheck disable=SC2312
244         LFBFL_file_name=$\
245             echo "${LFBFL_line}" \
246             | sed -E 's|.* ([a-zA-Z0-9\._/-]+).*$|\1|g' \
247         )
248         # echo "LFBFL_file_name: ${LFBFL_file_name}"
249         # shellcheck disable=SC2312
250         LFBFL_line_start=$\
251             echo "${LFBFL_line}" \
252             | sed -E "s/(.*)[\ ]*${LFBFL_file_name}/\1/g" \
253             | sed -e 's/ *$/ /'
254     )
255     # echo "LFBFL_line_start: ${LFBFL_line_start}"
256     LFBFL_line=$\
257         echo "${LFBFL_line}" \
258         | sed -E -e 's/\[\/\\\]/[\\]/g' -e 's/\]/\\]/g' \

```

```

259 )
260 LFBFL_new_lines="${LFBFL_prefix}${LFBFL_file_name}"
261 if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
262     repeated_split_last_line "${LFBFL_new_lines}" "${LFBFL_prefix}" \
263         70 "" "" 3
264     # shellcheck disable=SC2154
265     LFBFL_new_lines=${repeated_split_last_line_result}
266 fi
267 sed -i -e \
268     "s/${LFBFL_line}/${LFBFL_line_start}\n${LFBFL_new_lines}/g" \
269     "${LFBFL_tree_path}"
270 done
271 done
272
273 overwrite_if_not_equal "${LFBFL_subdir2}/temp/current_tree.txt" \
274     "${LFBFL_subdir2}/temp/current_tree.txt.temp" 1 1
275
276 if [[ -f "./${LFBFL_subdir2}/${repository_name}.tex.tpl" ]]; then
277     # If there is a template, we init the process from it.
278     cp "./${LFBFL_subdir2}/${repository_name}.tex.tpl" \
279         "./${LFBFL_subdir2}/temp/${repository_name}.tex.1"
280 elif [[ -f "./${LFBFL_subdir2}/${repository_name}.tex" ]]; then
281     # Otherwise if there is a tex file, we init the process from it.
282     cp "./${LFBFL_subdir2}/${repository_name}.tex" \
283         "./${LFBFL_subdir2}/temp/${repository_name}.tex.1"
284 else
285     echo "Neither .tex.tpl, nor .tex in ./${LFBFL_subdir2}/"
286 fi
287
288 # Same logic with repository HTML file.
289 if [[ -f "./${LFBFL_subdir2}/${repository_name}.html.tpl" ]]; then
290     cp "./${LFBFL_subdir2}/${repository_name}.html.tpl" \
291         "./${LFBFL_subdir2}/temp/${repository_name}.html.1"
292 elif [[ -f "./${repository_name}.html" ]]; then
293     cp "./${repository_name}.html" \
294         "./${LFBFL_subdir2}/temp/${repository_name}.html.1"
295 else
296     echo "Neither .html.tpl in ./${LFBFL_subdir2}/, nor .html in ./"
297 fi
298
299 declare -r LFBFL_tex_path_start=\
300     "./${LFBFL_subdir2}/temp/${repository_name}.tex"
301 declare -r LFBFL_html_path_start=\
302     "./${LFBFL_subdir2}/temp/${repository_name}.html"
303
304 # shellcheck disable=SC2001,SC2312

```

```

305 echo "${abstract}" | sed -e 's/\n/\n/g' \
306   > "./${LFBFL_subdir2}/temp/abstract_temp"
307
308 # shellcheck disable=SC2001,SC2312
309 echo "${acknowledgments}" | sed -e 's/\n/\n/g' \
310   > "./${LFBFL_subdir2}/temp/acknowledgments_temp"
311
312 # But the filling still occurs, in case the dev want to refill
313 # part of the tex/html file that he modified with @token@
314 # using some computed results.
315 # Tex filling:
316 if [[ -f "${LFBFL_tex_path_start}.1" ]]; then
317   sed -i "s|@repository_name@|${repository_name}|g" \
318     "${LFBFL_tex_path_start}.1"
319
320   insert_file_at_token "${LFBFL_tex_path_start}.1" @abstract@ \
321     "./${LFBFL_subdir2}/temp/abstract_temp" \
322     "${LFBFL_tex_path_start}.2"
323
324   insert_file_at_token "${LFBFL_tex_path_start}.2" @acknowledgments@ \
325     "./${LFBFL_subdir2}/temp/acknowledgments_temp" \
326     "${LFBFL_tex_path_start}.3"
327
328   sed -i "s|@author_email@|${author_email}|g" \
329     "${LFBFL_tex_path_start}.3"
330
331   sed -i "s|@author_full_name@|${author_full_name}|g" \
332     "${LFBFL_tex_path_start}.3"
333
334   sed -i "s|@author_website@|${author_website}|g" \
335     "${LFBFL_tex_path_start}.3"
336
337   sed -i "s|@current_date@|${LFBFL_current_date}|g" \
338     "${LFBFL_tex_path_start}.3"
339
340   sed -i "s|@current_git_SHA1@|${LFBFL_current_git_SHA1}|g" \
341     "${LFBFL_tex_path_start}.3"
342
343   sed -i "s|@number_of_commits@|${LFBFL_number_of_commits}|g" \
344     "${LFBFL_tex_path_start}.3"
345
346   sed -i "s|@number_of_lines@|${LFBFL_number_of_lines}|g" \
347     "${LFBFL_tex_path_start}.3"
348
349   pushd "./${LFBFL_subdir2}/temp/" || (echo "pushd failed" && exit)
350   sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}' \

```

```

351     "${repository_name}.tex.3"
352     sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}' \
353         "${repository_name}.tex.3"
354     popd || (echo "popd failed" && exit)
355
356     insert_file_at_token "${LFBFL_tex_path_start}.3" \
357         @files_listing_VerbatimInput@ \
358         "./${LFBFL_subdir2}/files_listing.tex.tpl" \
359         "${LFBFL_tex_path_start}.4"
360
361     overwrite_if_not_equal "./${LFBFL_subdir2}/${repository_name}.tex" \
362         "${LFBFL_tex_path_start}.4" 1
363 fi
364
365 # HTML filling:
366 if [[ -f "${LFBFL_html_path_start}.1" ]]; then
367     sed -i "s|@repository_name@|${repository_name}|g" \
368         "${LFBFL_html_path_start}.1"
369
370     insert_file_at_token "${LFBFL_html_path_start}.1" @abstract@ \
371         "./${LFBFL_subdir2}/temp/abstract_temp" \
372         "${LFBFL_html_path_start}.2"
373
374     insert_file_at_token "${LFBFL_html_path_start}.2" @acknowledgments@ \
375         "./${LFBFL_subdir2}/temp/acknowledgments_temp" \
376         "${LFBFL_html_path_start}.3"
377
378     sed -i "s|@author_email@|${author_email}|g" \
379         "${LFBFL_html_path_start}.3"
380
381     sed -i "s|@author_full_name@|${author_full_name}|g" \
382         "${LFBFL_html_path_start}.3"
383
384     sed -i "s|@author_website@|${author_website}|g" \
385         "${LFBFL_html_path_start}.3"
386
387     sed -i "s|@current_date@|${LFBFL_current_date}|g" \
388         "${LFBFL_html_path_start}.3"
389
390     sed -i "s|@current_git_SHA1@|${LFBFL_current_git_SHA1}|g" \
391         "${LFBFL_html_path_start}.3"
392
393     sed -i "s|@number_of_commits@|${LFBFL_number_of_commits}|g" \
394         "${LFBFL_html_path_start}.3"
395
396     sed -i "s|@number_of_lines@|${LFBFL_number_of_lines}|g" \

```

```

397     "${LFBFL_html_path_start}.3"
398
399     insert_file_at_token "${LFBFL_html_path_start}.3"\ \
400         @files_lis@ "${LFBFL_temp_files_lis}" "${LFBFL_html_path_start}.4"
401
402     pushd "./${LFBFL_subdir2}/temp/" || (echo "pushd failed" && exit)
403     sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}' \
404         "${repository_name}.html.4"
405     sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}' \
406         "${repository_name}.html.4"
407     popd || (echo "popd failed" && exit)
408
409     insert_file_at_token "${LFBFL_html_path_start}.4"\ \
410         @files_listing_HTMLPreInput@ \
411         "./${LFBFL_subdir2}/temp/files_listing.html.tpl"\ \
412         "${LFBFL_html_path_start}.5"
413
414     overwrite_if_not_equal "./${repository_name}.html"\ \
415         "${LFBFL_html_path_start}.5" 1
416 fi
417
418 if [[ -n "${LFBFL_verbose}" ]]; then
419     for ((i=0; i<3; i++)); do
420         pdflatex "./${LFBFL_subdir2}/${repository_name}.tex"
421     done
422 else
423     for ((i=0; i<3; i++)); do
424         pdflatex "./${LFBFL_subdir2}/${repository_name}.tex" > /dev/null
425     done
426 fi
427
428 LFBFL_files_to_temp=(\
429     "${repository_name}.aux"\ \
430     "${repository_name}.log"\ \
431     "${repository_name}.out"\ \
432     "${repository_name}.toc"
433 )
434 for LFBFL_file_name in "${LFBFL_files_to_temp[@]}"; do
435     mv "${LFBFL_file_name}" "${LFBFL_subdir2}/temp/"
436 done

```

## 2.9 build\_and\_checks\_dependencies/generate\_from\_template.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #

```

```

4  # DevOrSysAdminScripts is free software:
5  # you can redistribute it and/or modify it under the terms
6  # of the GNU General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "generate_from_template.sh" to
25 # "generate_from_template.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/lines_filters.libr.sh"
30
31 generate_from_template_with_block_comments() {
32     # $1=base_file_name
33     # $2=target_file_name
34     # $3=enter_block_comment
35     # $4=exit_block_comment
36     local LFBFL_temp
37     LFBFL_temp="$2.generate_from_template_with_block_comments.temp"
38     readonly LFBFL_temp
39     echo "$3" > "${LFBFL_temp}"
40     cat "$1" >> "${LFBFL_temp}"
41     echo "$4" >> "${LFBFL_temp}"
42     overwrite_if_not_equal "$2" "${LFBFL_temp}"
43 }
44
45 generate_from_template_with_line_comments() {
46     # $1=base_file_name
47     # $2=target_file_name
48     # $3=line_comment_prefix
49     # $4=optional_post_processing

```

```

50      # $5=file_prefix
51      local LFBFL_temp
52      LFBFL_temp="$2.generate_from_template_with_line_comments.temp"
53      readonly LFBFL_temp
54      if [[ -n "$5" ]]; then
55          echo "$5" > "${LFBFL_temp}"
56      fi
57      sed -e "s/^/$3/g" "$1" >> "${LFBFL_temp}"
58      if [[ -n "$4" ]]; then
59          eval "$4"
60      fi
61      overwrite_if_not_equal "$2" "${LFBFL_temp}"
62  }
63
64  split_file_in_two() {
65      # $1=$file_name
66      # $2=$token assume that token is the only thing on his line.
67      # $3=$file_name_part1
68      # $4=$file_name_part2
69      declare -ir LFBFL_line_number=$((
70          grep -n "$2" "$1" | head --lines=1 | cut -f 1 -d ':'
71      ))
72      declare -ir LFBFL_line_count=$(ll_wc -l -n "$1")
73      declare -ir LFBFL_lines_after=$(((
74          LFBFL_line_count - LFBFL_line_number
75      )))
76      head --lines="$((LFBFL_line_number - 1))" "$1" > "$3"
77      tail --lines="${LFBFL_lines_after}" "$1" > "$4"
78  }
79
80  insert_file_at_token() {
81      # $1=$file_name
82      # $2=$token assume that token is the only thing on his line.
83      # $3=$file_name_to_insert
84      # $4=$file_name_result
85      declare -r LFBFL_start_file_name="$1.insert_file_at_token1.temp"
86      declare -r LFBFL_end_file_name="$1.insert_file_at_token2.temp"
87      local LFBFL_result_file_name
88      if [[ -n "$4" ]]; then
89          LFBFL_result_file_name="$4"
90      else
91          LFBFL_result_file_name="$1.insert_file_at_token3.temp"
92      fi
93      readonly LFBFL_result_file_name
94      split_file_in_two "$1" "$2" "${LFBFL_start_file_name}" \
95          "${LFBFL_end_file_name}"

```

```

96     cat "${LFBFL_start_file_name}" "$3" "${LFBFL_end_file_name}" \
97         > "${LFBFL_result_file_name}"
98     if [[ -z "$4" ]]; then
99         overwrite_if_not_equal "$1" "${LFBFL_result_file_name}"
100    fi
101   rm "${LFBFL_start_file_name}" "${LFBFL_end_file_name}"
102 }
```

## 2.10 build\_and\_checks\_dependencies/get\_common\_text\_glob\_patterns.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "get_common_text_glob_patterns.sh"
25 # to "get_common_text_glob_patterns.libr.sh".
26
27 get_COMMON_TEXT_PATHS_GLOB_PATTERNS() {
28     # shellcheck disable=SC2034
29     declare -gr COMMON_TEXT_PATHS_GLOB_PATTERNS=( \
30         '**/*.c' \
31         '**/*.css' \
32         '**/*.h' \
33         '**/*.htm' \
34         '**/*.html' \
35         '**/*.js' \
36         '**/*.json' \

```

```

37     ' **/*.*.md' \
38     ' **/*.*.php' \
39     ' **/*.*.py' \
40     ' **/*.*.sh' \
41     ' **/*.*.sql' \
42     ' **/*.*.tex' \
43     ' **/*.*.toml' \
44     ' **/*.*.tpl' \
45     ' **/*.*.ts' \
46     ' **/*.*.txt' \
47     ' **/*.*.yml' \
48     ' **/*COPYING' \
49     ' **/*COPYING.LESSER' \
50     ' **/*pre-commit' \
51     ' **/*post-commit' \
52     ' **/*.gitignore' \
53     ' **/*py.typed' \
54 )
55 }
56
57
58 get_COMMON_TEXT_FILES_GLOB_PATTERNS () {
59     # shellcheck disable=SC2034
60     declare -gr COMMON_TEXT_FILES_GLOB_PATTERNS=( \
61         '*.*c' \
62         '*.*css' \
63         '*.*h' \
64         '*.*htm' \
65         '*.*html' \
66         '*.*js' \
67         '*.*json' \
68         '*.*md' \
69         '*.*php' \
70         '*.*py' \
71         '*.*sh' \
72         '*.*sql' \
73         '*.*tex' \
74         '*.*toml' \
75         '*.*tpl' \
76         '*.*ts' \
77         '*.*txt' \
78         '*.*yml' \
79         'COPYING' \
80         'COPYING.LESSER' \
81         'pre-commit' \
82         'post-commit' \

```

```

83     '.gitignore' \
84     'py.typed' \
85 )
86 }
```

## 2.11 build\_and\_checks\_dependencies/grammar\_and\_spell\_check.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "grammar_and_spell_check.sh"
25 # to "grammar_and_spell_check.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
30 # shellcheck disable=SC1090
31 source "./${LFBFL_subdir}/lines_filters.libr.sh"
32
33 grammar_and_spell_check() {
34     get_COMMON_TEXT_FILES_GLOB_PATTERNS
35     grammar_or_spell_checker_command=""
36     grep_variable "$1" grammar_or_spell_checker_command
37     # shellcheck disable=SC2312
38     declare -r LFBFL_command=${(\
39         echo "${grammar_or_spell_checker_command}" \
```

```

40     | sed -Ez -e "s/\n//Mg"\ \
41   )
42   local LFBFL_file_path
43   local LFBFL_pattern
44   local LFBFL_eval_string
45   # shellcheck disable=SC2154
46   for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
47     [[ "$2" != "-v" ]]\ \
48     || echo "Iterating on pattern: ${LFBFL_pattern}"
49   # shellcheck disable=SC2312
50   find . -type f -name "${LFBFL_pattern}" -printf '%P\n'\
51     | while read -r LFBFL_file_path;
52   do
53     LFBFL_eval_string="${LFBFL_command} ${LFBFL_file_path}"
54     eval "${LFBFL_eval_string}"
55   done
56 done
57 }

```

## **2.12 build\_and\_checks\_dependencies/licenses\_templates/build\_licenses\_templates.exec.sh**

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "build_licenses_templates.sh"
25 # to "build_licenses_templates.exec.sh".

```

```

26
27 LFBFL_verbose=""
28 if [[ "$1" == "--verbose" ]]; then
29   echo "$0 $*"
30   # shellcheck disable=SC2034
31   LFBFL_verbose="--verbose"
32 fi
33
34 LFBFL_subdir="build_and_checks_dependencies"
35 # shellcheck disable=SC1090
36 source "./${LFBFL_subdir}/comparisons.libr.sh"
37 # shellcheck disable=SC1090
38 source "./${LFBFL_subdir}/generate_from_template.libr.sh"
39 # shellcheck disable=SC1090
40 source "./${LFBFL_subdir}/lines_filters.libr.sh"
41 # shellcheck disable=SC1090
42 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
43
44 declare -r \
45   LFBFL_license_subdir="./${LFBFL_subdir}/licenses_templates/"
46 declare -r \
47   LFBFL_license_prefix="${LFBFL_license_subdir}license_file_header_"
48 declare -ar LFBFL_licenses=( \
49   "AGPLv3+" \
50   "GPLv3+" \
51   "LGPLv3+" \
52 )
53
54 # -----
55 # Various language definitions for text file formats
56 declare -ar LFBFL_block_comment_languages=( \
57   "c" \
58   "py" \
59 )
60 declare -ar LFBFL_block_comment_enters=( \
61   '/*' \
62   '"""' \
63 )
64 declare -ar LFBFL_block_comment_exits=( \
65   '*/' \
66   '"""' \
67 )
68 equal "${#LFBFL_block_comment_languages[@]}"\ \
69   "${#LFBFL_block_comment_enters[@]}"\ \
70   "${#LFBFL_block_comment_exits[@]}"
71 # shellcheck disable=SC2181

```

```

72 if [[ $? == 0 ]]; then
73     # shellcheck disable=SC1003
74     echo '/!\\"Problème de définition des tableaux de langages 1\"/!\\''
75 fi
76
77 declare -ar LFBFL_line_comment_languages=(\
78     "sh"\\
79     "tex"\\
80 )
81 declare -ar LFBFL_line_comment_prefixes=(\
82     '# '\\
83     '%' '\\
84 )
85 equal "${#LFBFL_line_comment_languages[@]}"\ \
86     "${#LFBFL_line_comment_prefixes[@]}"
87 # shellcheck disable=SC2181
88 if [[ $? == 0 ]]; then
89     # shellcheck disable=SC1003
90     echo '/!\\"Problème de définition des tableaux de langages 2\"/!\\''
91 fi
92 # -----
93
94 # -----
95 # We generate the license header templates adapted to various text
96 # files formats.
97 # Kamoulox do endfor, Jacques Beauregard XD
98 # (C'est toujours mieux que l'inverse :) !)
99 # for do endfor -> for do done (Fort Doux Donne).
100 declare LFBFL_license
101 declare LFBFL_license_prefix2
102 declare LFBFL_extension
103 declare LFBFL_license_file_name
104 declare LFBFL_enter_string
105 declare LFBFL_exit_string
106 declare LFBFL_temp2
107 declare LFBFL_prefix_string
108 declare LFBFL_intermediate_file_name
109 declare LFBFL_file_prefix
110 for LFBFL_license in "${LFBFL_licenses[@]}"; do
111     LFBFL_license_prefix2="${LFBFL_license_prefix}${LFBFL_license}"
112     for ((i=0; i<${#LFBFL_block_comment_languages[@]}; i++)); do
113         LFBFL_extension=${LFBFL_block_comment_languages[i]}
114         LFBFL_license_file_name="${LFBFL_license_prefix2}"
115         LFBFL_license_file_name+=".${LFBFL_extension}"
116         LFBFL_enter_string=${LFBFL_block_comment_enters[i]}
117         LFBFL_exit_string=${LFBFL_block_comment_exits[i]}

```

```

118 generate_from_template_with_block_comments\
119     "${LFBFL_license_prefix2}.tpl"\ \
120     "${LFBFL_license_file_name}.tpl"\ \
121     "${LFBFL_enter_string}" "${LFBFL_exit_string}""
122 done
123 LFBFL_temp2=".generate_from_template_with_line_comments.temp"
124 for ((i=0; i<#${LFBFL_line_comment_languages[@]}; i++)); do
125     LFBFL_extension=${LFBFL_line_comment_languages[i]}
126     LFBFL_license_file_name="${LFBFL_license_prefix2}"
127     LFBFL_license_file_name+=".${LFBFL_extension}"
128     LFBFL_prefix_string=${LFBFL_line_comment_prefixes[i]}
129     LFBFL_intermediate_file_name="${LFBFL_license_file_name}.tpl"
130     LFBFL_intermediate_file_name+=".${LFBFL_temp2}"
131     LFBFL_file_prefix=""
132     if [[ "${LFBFL_extension}" == "sh" ]]; then
133         LFBFL_file_prefix="#!/usr/bin/env bash"
134     fi
135     generate_from_template_with_line_comments\
136         "${LFBFL_license_prefix2}.tpl"\ \
137         "${LFBFL_license_file_name}.tpl"\ \
138         "${LFBFL_prefix_string}"\
139         "sed -Ei -e 's/\s*$/ /g' '${LFBFL_intermediate_file_name}'"\ \
140         "${LFBFL_file_prefix}"
141     done
142 done
143 # -----
144
145 declare -r LFBFL_data_file_name=\
146 "build_and_checks_variables/repository_data.txt"
147 repository_name=""
148 license=""
149 license2=""
150 author_full_name=""
151 grep_variable "${LFBFL_data_file_name}" repository_name
152 grep_variable "${LFBFL_data_file_name}" license
153 grep_variable "${LFBFL_data_file_name}" license2
154 grep_variable "${LFBFL_data_file_name}" author_full_name
155 LFBFL_license_prefix2="${LFBFL_license_prefix}${license}"
156 readonly LFBFL_license_prefix2
157 declare -r LFBFL_license_prefix3="${LFBFL_license_prefix}${license2}"
158
159 # First year according to current state of git repository.
160 # shellcheck disable=SC2155,SC2312
161 declare -r LFBFL_first_year=\
162 "$(git log | grep 'Date:' | cut -f 8 -d ' ' | tail -1)"
163 # Last year according to current state of git repository.

```

```

164 # shellcheck disable=SC2155,SC2312
165 declare -r LFBFL_last_year=\`  

166 "$(git log | grep 'Date:' | cut -f 8 -d ' ' | head -1)"\`  

167 LFBFL_copyright_string="${LFBFL_first_year}-${LFBFL_last_year}"  

168 LFBFL_copyright_string+="${author_full_name}"  

169 readonly LFBFL_copyright_string  

170
171 prepare_filled_license_file_block(){  

172     # $1=license_file_name  

173     sed -e "s/@repository_name@/${repository_name}/g"\`  

174     -e "s/@copyright_string@/${LFBFL_copyright_string}/g"\`  

175     "$1.tpl" > "$1.temp"  

176     overwrite_if_not_equal "$1" "$1.temp"  

177     # shellcheck disable=SC2312  

178     head --lines=-1 "$1" | tail --lines=+2 > "$1.temp"  

179     # Strange world: tail --lines=-1 was working to exclude first line.  

180     # I tested it months ago, and saw with my eyes the start and end  

181     # block comments removed with:  

182     # head --lines=-1 "$1" | tail --lines=-1.  

183     # Now, man page says to use --lines=+2 instead.  

184     # Welcome in the world where AI change your environment and your doc  

185     # on the fly...  

186 }
187
188 declare -A LFBFL_all_block_comment_languages  

189 LFBFL_all_block_comment_languages["c"]="c"  

190 LFBFL_all_block_comment_languages["php"]="c"  

191 LFBFL_all_block_comment_languages["py"]="py"  

192
193 declare LFBFL_key  

194 declare LFBFL_dest  

195 declare LFBFL_license_file_name2  

196 declare -i LFBFL_not_subfile  

197 declare -i LFBFL_not_subfile2  

198
199 for LFBFL_key in "${!LFBFL_all_block_comment_languages[@]}"; do  

200     LFBFL_dest=${LFBFL_all_block_comment_languages[$LFBFL_key]}\`  

201     LFBFL_license_file_name="${LFBFL_license_prefix2}.${LFBFL_dest}"  

202     prepare_filled_license_file_block "${LFBFL_license_file_name}"  

203     if [[ -n "${license2}" ]]; then  

204         LFBFL_license_file_name2="${LFBFL_license_prefix3}.${LFBFL_dest}"  

205         prepare_filled_license_file_block "${LFBFL_license_file_name2}"  

206     fi  

207     # shellcheck disable=SC2312  

208     find . -type f -name "*.${LFBFL_key}" -printf '%P\n'\`  

209     | relevant_find | while read -r LFBFL_file_name;

```

```

210 do
211     is_subfile "${LFBFL_file_name}" "${LFBFL_license_file_name}.temp"
212     LFBFL_not_subfile=$?
213     LFBFL_not_subfile2=1
214     if [[ -n "${license2}" ]]; then
215         is_subfile "${LFBFL_file_name}" \
216             "${LFBFL_license_file_name2}.temp"
217         LFBFL_not_subfile2=$?
218     fi
219     if [[ LFBFL_not_subfile -ge 1 && LFBFL_not_subfile2 -ge 1 ]]; then
220         echo "File ${LFBFL_file_name} has no/wrong license header?"
221     fi
222 done
223 rm "${LFBFL_license_file_name}.temp"
224 if [[ -n "${license2}" ]]; then
225     rm "${LFBFL_license_file_name2}.temp"
226 fi
227 done
228
229 prepare_filled_license_file_line() {
230     # $1=LFBFL_license_file_name
231     sed -e "s/@repository_name@/${repository_name}/g" \
232         -e "s/@copyright_string@/${LFBFL_copyright_string}/g" \
233         "$1.tpl" > "$1.temp"
234     overwrite_if_not_equal "$1" "$1.temp"
235 }
236
237 declare -A LFBFL_all_line_comment_languages
238 LFBFL_all_line_comment_languages["sh"]="sh"
239 LFBFL_all_line_comment_languages["tex"]="tex"
240
241 for LFBFL_key in "${!LFBFL_all_line_comment_languages[@]}"; do
242     LFBFL_dest=${LFBFL_all_line_comment_languages[$LFBFL_key]}
243     LFBFL_license_file_name="${LFBFL_license_prefix2}.${LFBFL_dest}"
244     prepare_filled_license_file_line "${LFBFL_license_file_name}"
245     if [[ -n "${license2}" ]]; then
246         LFBFL_license_file_name2="${LFBFL_license_prefix3}.${LFBFL_dest}"
247         prepare_filled_license_file_line "${LFBFL_license_file_name2}"
248     fi
249     # shellcheck disable=SC2312
250     find . -type f -name "*.${LFBFL_key}" -printf '%P\n' \
251         | relevant_find | while read -r LFBFL_file_name;
252     do
253         is_subfile "${LFBFL_file_name}" "${LFBFL_license_file_name}"
254         LFBFL_not_subfile=$?
255         LFBFL_not_subfile2=1

```

```

256     if [[ -n "${license2}" ]]; then
257         is_subfile "${LFBFL_file_name}" "${LFBFL_license_file_name2}"
258         LFBFL_not_subfile2=$?
259     fi
260     if [[ LFBFL_not_subfile -ge 1 && LFBFL_not_subfile2 -ge 1 ]]; then
261         echo "File ${LFBFL_file_name} has no/wrong license header?"
262     fi
263 done
264 done

```

## 2.13 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_AGPLv3+.cpt

```

1  /*
2  This file is part of @repository_name@ library.
3
4  @repository_name@ is free software:
5  you can redistribute it and/or modify it under the terms
6  of the GNU Affero General Public License
7  as published by the Free Software Foundation,
8  either version 3 of the License,
9  or (at your option) any later version.
10
11 @repository_name@ is distributed in the hope
12 that it will be useful,
13 but WITHOUT ANY WARRANTY;
14 without even the implied warranty of
15 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 See the GNU Affero General Public License for more details.
17
18 You should have received a copy of
19 the GNU Affero General Public License
20 along with @repository_name@.
21 If not, see <https://www.gnu.org/licenses/>.
22
23 ©Copyright @copyright_string@
24 */

```

## 2.14 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_AGPLv3+.py.t

```

1 """
2 This file is part of @repository_name@ library.
3
4 @repository_name@ is free software:
5 you can redistribute it and/or modify it under the terms
6 of the GNU Affero General Public License
7 as published by the Free Software Foundation,

```

```

8 either version 3 of the License,
9 or (at your option) any later version.

10
11 @repository_name@ is distributed in the hope
12 that it will be useful,
13 but WITHOUT ANY WARRANTY;
14 without even the implied warranty of
15 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 See the GNU Affero General Public License for more details.

17
18 You should have received a copy of
19 the GNU Affero General Public License
20 along with @repository_name@.
21 If not, see <https://www.gnu.org/licenses/>.

22
23 ©Copyright @copyright_string@
24 """

```

## **2.15 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_AGPLv3+.sh.t**

```

1 #!/usr/bin/env bash
2 # This file is part of @repository_name@ library.
3 #
4 # @repository_name@ is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU Affero General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # @repository_name@ is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Affero General Public License for more details.

17 #
18 # You should have received a copy of
19 # the GNU Affero General Public License
20 # along with @repository_name@.
21 # If not, see <https://www.gnu.org/licenses/>.

22 #
23 # ©Copyright @copyright_string@

```

## **2.16 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_AGPLv3+.tex.t**

```
1 % This file is part of @repository_name@ library.  
2 %  
3 % @repository_name@ is free software:  
4 % you can redistribute it and/or modify it under the terms  
5 % of the GNU Affero General Public License  
6 % as published by the Free Software Foundation,  
7 % either version 3 of the License,  
8 % or (at your option) any later version.  
9 %  
10 % @repository_name@ is distributed in the hope  
11 % that it will be useful,  
12 % but WITHOUT ANY WARRANTY;  
13 % without even the implied warranty of  
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
15 % See the GNU Affero General Public License for more details.  
16 %  
17 % You should have received a copy of  
18 % the GNU Affero General Public License  
19 % along with @repository_name@.  
20 % If not, see <https://www.gnu.org/licenses/>.  
21 %  
22 % ©Copyright @copyright_string@
```

## **2.17 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_AGPLv3+.tpl**

```
1 This file is part of @repository_name@ library.  
2  
3 @repository_name@ is free software:  
4 you can redistribute it and/or modify it under the terms  
5 of the GNU Affero General Public License  
6 as published by the Free Software Foundation,  
7 either version 3 of the License,  
8 or (at your option) any later version.  
9  
10 @repository_name@ is distributed in the hope  
11 that it will be useful,  
12 but WITHOUT ANY WARRANTY;  
13 without even the implied warranty of  
14 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
15 See the GNU Affero General Public License for more details.  
16  
17 You should have received a copy of  
18 the GNU Affero General Public License  
19 along with @repository_name@.
```

```
20 If not, see <https://www.gnu.org/licenses/>.  
21  
22 ©Copyright @copyright_string@
```

## 2.18 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_GPLv3+.c.tpl

```
1 /*  
2 This file is part of @repository_name@ library.  
3  
4 @repository_name@ is free software:  
5 you can redistribute it and/or modify it under the terms  
6 of the GNU General Public License  
7 as published by the Free Software Foundation,  
8 either version 3 of the License,  
9 or (at your option) any later version.  
10  
11 @repository_name@ is distributed in the hope  
12 that it will be useful,  
13 but WITHOUT ANY WARRANTY;  
14 without even the implied warranty of  
15 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
16 See the GNU General Public License for more details.  
17  
18 You should have received a copy of  
19 the GNU General Public License  
20 along with @repository_name@.  
21 If not, see <https://www.gnu.org/licenses/>.  
22  
23 ©Copyright @copyright_string@  
24 */
```

## 2.19 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_GPLv3+.py.tpl

```
1 """  
2 This file is part of @repository_name@ library.  
3  
4 @repository_name@ is free software:  
5 you can redistribute it and/or modify it under the terms  
6 of the GNU General Public License  
7 as published by the Free Software Foundation,  
8 either version 3 of the License,  
9 or (at your option) any later version.  
10  
11 @repository_name@ is distributed in the hope  
12 that it will be useful,  
13 but WITHOUT ANY WARRANTY;
```

```

14 without even the implied warranty of
15 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 See the GNU General Public License for more details.
17
18 You should have received a copy of
19 the GNU General Public License
20 along with @repository_name@.
21 If not, see <https://www.gnu.org/licenses/>.
22
23 ©Copyright @copyright_string@
24 """

```

## **2.20 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_GPLv3+.sh.tpl**

```

1 #!/usr/bin/env bash
2 # This file is part of @repository_name@ library.
3 #
4 # @repository_name@ is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # @repository_name@ is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with @repository_name@.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright @copyright_string@

```

## **2.21 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_GPLv3+.tex.tpl**

```

1 % This file is part of @repository_name@ library.
2 %
3 % @repository_name@ is free software:
4 % you can redistribute it and/or modify it under the terms
5 % of the GNU General Public License
6 % as published by the Free Software Foundation,

```

```

7  % either version 3 of the License,
8  % or (at your option) any later version.
9  %
10 % @repository_name@ is distributed in the hope
11 % that it will be useful,
12 % but WITHOUT ANY WARRANTY;
13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU General Public License for more details.
16 %
17 % You should have received a copy of
18 % the GNU General Public License
19 % along with @repository_name@.
20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright @copyright_string@

```

## **2.22 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_GPLv3+.tpl**

```

1 This file is part of @repository_name@ library.
2
3 @repository_name@ is free software:
4 you can redistribute it and/or modify it under the terms
5 of the GNU General Public License
6 as published by the Free Software Foundation,
7 either version 3 of the License,
8 or (at your option) any later version.
9
10 @repository_name@ is distributed in the hope
11 that it will be useful,
12 but WITHOUT ANY WARRANTY;
13 without even the implied warranty of
14 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 See the GNU General Public License for more details.
16
17 You should have received a copy of
18 the GNU General Public License
19 along with @repository_name@.
20 If not, see <https://www.gnu.org/licenses/>.
21
22 ©Copyright @copyright_string@

```

## **2.23 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.c.tpl**

```

1 /*
2 This file is part of @repository_name@ library.

```

```

3
4 @repository_name@ is free software:
5 you can redistribute it and/or modify it under the terms
6 of the GNU Lesser General Public License
7 as published by the Free Software Foundation,
8 either version 3 of the License,
9 or (at your option) any later version.
10
11 @repository_name@ is distributed in the hope
12 that it will be useful,
13 but WITHOUT ANY WARRANTY;
14 without even the implied warranty of
15 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 See the GNU Lesser General Public License for more details.
17
18 You should have received a copy of
19 the GNU Lesser General Public License
20 along with @repository_name@.
21 If not, see <https://www.gnu.org/licenses/>.
22
23 ©Copyright @copyright_string@
24 */

```

## 2.24 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.py.t

```

1 """
2 This file is part of @repository_name@ library.
3
4 @repository_name@ is free software:
5 you can redistribute it and/or modify it under the terms
6 of the GNU Lesser General Public License
7 as published by the Free Software Foundation,
8 either version 3 of the License,
9 or (at your option) any later version.
10
11 @repository_name@ is distributed in the hope
12 that it will be useful,
13 but WITHOUT ANY WARRANTY;
14 without even the implied warranty of
15 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 See the GNU Lesser General Public License for more details.
17
18 You should have received a copy of
19 the GNU Lesser General Public License
20 along with @repository_name@.
21 If not, see <https://www.gnu.org/licenses/>.

```

```
22  
23     ©Copyright @copyright_string@  
24     """
```

## 2.25 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.sh.tpl

```
1 #!/usr/bin/env bash  
2  # This file is part of @repository_name@ library.  
3  #  
4  # @repository_name@ is free software:  
5  # you can redistribute it and/or modify it under the terms  
6  # of the GNU Lesser General Public License  
7  # as published by the Free Software Foundation,  
8  # either version 3 of the License,  
9  # or (at your option) any later version.  
10 #  
11 # @repository_name@ is distributed in the hope  
12 # that it will be useful,  
13 # but WITHOUT ANY WARRANTY;  
14 # without even the implied warranty of  
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
16 # See the GNU Lesser General Public License for more details.  
17 #  
18 # You should have received a copy of  
19 # the GNU Lesser General Public License  
20 # along with @repository_name@.  
21 # If not, see <https://www.gnu.org/licenses/>.  
22 #  
23 # ©Copyright @copyright_string@
```

## 2.26 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.tex.tpl

```
1  % This file is part of @repository_name@ library.  
2  %  
3  % @repository_name@ is free software:  
4  % you can redistribute it and/or modify it under the terms  
5  % of the GNU Lesser General Public License  
6  % as published by the Free Software Foundation,  
7  % either version 3 of the License,  
8  % or (at your option) any later version.  
9  %  
10 % @repository_name@ is distributed in the hope  
11 % that it will be useful,  
12 % but WITHOUT ANY WARRANTY;  
13 % without even the implied warranty of  
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
```

```

15 % See the GNU Lesser General Public License for more details.
16 %
17 % You should have received a copy of
18 % the GNU Lesser General Public License
19 % along with @repository_name@.
20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright @copyright_string@

```

## **2.27 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.tpl**

```

1 This file is part of @repository_name@ library.
2
3 @repository_name@ is free software:
4 you can redistribute it and/or modify it under the terms
5 of the GNU Lesser General Public License
6 as published by the Free Software Foundation,
7 either version 3 of the License,
8 or (at your option) any later version.
9
10 @repository_name@ is distributed in the hope
11 that it will be useful,
12 but WITHOUT ANY WARRANTY;
13 without even the implied warranty of
14 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 See the GNU Lesser General Public License for more details.
16
17 You should have received a copy of
18 the GNU Lesser General Public License
19 along with @repository_name@.
20 If not, see <https://www.gnu.org/licenses/>.
21
22 ©Copyright @copyright_string@

```

## **2.28 build\_and\_checks\_dependencies/lines\_counts.libr.sh**

```

1#!/usr/bin/env bash
2# This file is part of DevOrSysAdminScripts library.
3#
4# DevOrSysAdminScripts is free software:
5# you can redistribute it and/or modify it under the terms
6# of the GNU General Public License
7# as published by the Free Software Foundation,
8# either version 3 of the License,
9# or (at your option) any later version.
10#

```

```

11  # DevOrSysAdminScripts is distributed in the hope
12  # that it will be useful,
13  # but WITHOUT ANY WARRANTY;
14  # without even the implied warranty of
15  # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16  # See the GNU General Public License for more details.
17  #
18  # You should have received a copy of
19  # the GNU General Public License
20  # along with DevOrSysAdminScripts.
21  # If not, see <https://www.gnu.org/licenses/>.
22  #
23  # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24  # This file was renamed from "lines_counts.sh" to
25  # "lines_counts.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
30 # shellcheck disable=SC1090
31 source "./${LFBFL_subdir}/lines_filters.libr.sh"
32
33 all_code_lines(){
34     get_COMMON_TEXT_FILES_GLOB_PATTERNS
35     local LFBFL_pattern
36     # shellcheck disable=SC2154
37     for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
38         [[ "$1" != "-v" ]]\
39             || echo "Iterating on pattern: ${LFBFL_pattern}"
40         # shellcheck disable=SC2312
41         find . -type f -name "${LFBFL_pattern}" -printf '%P\n'\
42             | xargs grep -H -v 'a(?!)a'
43     done
44 }
45
46 all_self_code_lines(){
47     # shellcheck disable=SC2312
48     all_code_lines "$@" | relevant_grep\
49         | not_license_grep | not_main_tex_grep | not_main_html_grep
50 }
51
52 all_self_empty_code_lines(){
53     # shellcheck disable=SC2312
54     all_self_code_lines "$@" | empty_lines_after_file_name
55 }
56

```

```

57 all_self_not_empty_code_lines() {
58     # shellcheck disable=SC2312
59     all_self_code_lines "$@" | not_empty_lines_after_file_name
60 }
61
62 code_lines_count_all() {
63     # shellcheck disable=SC2312
64     all_self_code_lines "$@" | wc -l
65 }
66
67 code_lines_count_empty() {
68     # shellcheck disable=SC2312
69     all_self_empty_code_lines "$@" | wc -l
70 }
71
72 code_lines_count_not_empty() {
73     # shellcheck disable=SC2312
74     all_self_not_empty_code_lines "$@" | wc -l
75 }

```

## **2.29 build\_and\_checks\_dependencies/lines\_filters.libr.sh**

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "lines_filters.sh" to

```

```

25  # "lines_filters.libr.sh".
26
27  # The goal of this file is to have some common line filters
28  # for bash processing and pipes.
29  # As is the case for other .sh files in this repository,
30  # it can be copied somewhere in your home directory
31  # and sourced in your .bashrc.
32
33 ll_wc() {
34     # current options to wc:
35     # -c --bytes
36     # -m --chars
37     # -l --lines
38     # --files0-from # Incompatible with cat,
39     #                 # another thing intentional by ?
40     #                 # I don't see the meaning of "files0".
41     # -L --max-line-length
42     # -w --words
43     # --help
44     # --version
45     # New option by Laurent Lyaudet (and probably other before):
46     # -n --no-filenames display only number(s)
47     # I think I did that the first time many years ago (Teliae ?).
48     # Since then, they added it as ignored... (-n)
49     declare -a ll_wc_var_args=()
50     declare -i ll_wc_var_number_only=0
51     declare -i ll_wc_var_i=0
52     for ll_wc_var_arg in "$@"; do
53         # echo "$ll_wc_var_arg"
54         # shellcheck disable=SC2250
55         if [[ "${ll_wc_var_arg}" == "-n" ]]; then
56             ll_wc_var_number_only=1
57         elif [[ "${ll_wc_var_arg}" == "--no-filenames" ]]; then
58             ll_wc_var_number_only=1
59         elif [[ ${ll_wc_var_number_only} -eq 0 ]]; then
60             ll_wc_var_args[ll_wc_var_i]="${ll_wc_var_arg}"
61             ll_wc_var_i=$((ll_wc_var_i + 1))
62         elif [[ "${ll_wc_var_arg}" =~ -* ]]; then
63             ll_wc_var_args[ll_wc_var_i]="${ll_wc_var_arg}"
64             ll_wc_var_i=$((ll_wc_var_i + 1))
65         fi
66     done
67     # typeset -p ll_wc_var_args
68     # echo "$ll_wc_var_number_only"
69     # shellcheck disable=SC2250
70     if [[ ${ll_wc_var_number_only} -gt 0 ]]; then

```

```

71  # Too simple code, only the base use case is handled now.
72  # Convenient but incomplete.
73  # With more time,
74  # the simpler would be to submit a patch to GNU coreutils,
75  # unless blockade from assholes.
76  # Otherwise, it may be more simply handled in PHP or Python
77  # (argparse, etc.).
78  # You'll need to start by improving cat first,
79  # with --files0-from handling.
80  # wc does not display file_name when stream...
81  # hence cat of last arg "${!#}"
82  # shellcheck disable=SC2312
83  cat "${!#}" | wc "${ll_wc_var_args[@]}"

84 else
85     # echo "normal"
86     wc "${ll_wc_var_args[@]}"
87 fi
88 }

89
90 # I submitted a patch for wc :).
91 # echo "https://domain/list-path/2024-05/msg00013.html" | \
92 #     sed -e 's|domain|lists.gnu.org|' \
93 #         -e 's|list-path|archive/html/bug-coreutils|'
94 # I found another way to have a long URL fit on 70 characters.
95 # If it is merged, the following would be better:
96 # If --no-filenames option available,
97 # we redefine ll_wc command as an alias.
98 wc_help_text=$(wc --help)
99 if [[ "${wc_help_text}" == *"--no-filenames" ]]; then
100     alias ll_wc='wc'
101 fi
102
103 # Trace avant le (2e ?) renommage
104 # de wget_sha512.sh à wget_sha512.libr.sh.
105 # $ ll_wc wget_sha512.sh
106 # 41 189 1224 wget_sha512.sh
107 # $ ll_wc -n wget_sha512.sh
108 # 41 189 1224
109 # $ ll_wc -l wget_sha512.sh
110 # 41 wget_sha512.sh
111 # $ ll_wc -l -n wget_sha512.sh
112 # 41

113 in_place_grep() {
114     declare -r LFBFL_temp="${!#}.in_place_grep.temp"
115     grep "$@" > "${LFBFL_temp}"

```

```

117 declare -r LFBFL_lines_before=$(ll_wc -l -n "${!#}")
118 declare -r LFBFL_lines_after=$(ll_wc -l -n "${LFBFL_temp}")
119 # echo "$LFBFL_lines_before"
120 # echo "$LFBFL_lines_after"
121 if [[ "$LFBFL_lines_before" == "$LFBFL_lines_after" ]]; then
122     rm "$LFBFL_temp"
123     return
124 fi
125 mv "$LFBFL_temp" "${!#}"
126 }
127
128 grep_variable() {
129     # $1=$file
130     # $2=$variable_name
131     declare -r LFBFL_regexp="(?<=^$2=).*$"
132     # echo $LFBFL_regexp
133     declare -r LFBFL_variable_value=$(grep -oP "${LFBFL_regexp}" "$1")
134     # echo $LFBFL_variable_value
135     declare -g "$2"="$LFBFL_variable_value"
136 }
137
138 repository_name=""
139 grep_variable build_and_checks_variables/repository_data.txt \
140     repository_name
141
142 empty_lines() {
143     grep '^$'
144 }
145
146 not_empty_lines() {
147     grep -v '^$'
148 }
149
150 space_starting_lines() {
151     grep '^[ ]'
152 }
153
154 not_space_starting_lines() {
155     grep '^[^ ]'
156 }
157
158 empty_lines_after_file_name() {
159     grep '^[:]\+:$'
160 }
161
162 not_empty_lines_after_file_name() {

```

```

163     grep -v '^[:]\+\:$'
164 }
165
166 space_starting_lines_after_file_name() {
167     grep '^[:]\+:' '
168 }
169
170 not_space_starting_lines_after_file_name() {
171     grep '^[:]\+:[^ ]'
172 }
173
174 not_JS_dependencies_find() {
175     # shellcheck disable=SC2312
176     grep -vE "^(|/)node_modules/" | grep -vE "^(|/)package-lock\.json$"
177 }
178
179 not_JS_dependencies_grep() {
180     # shellcheck disable=SC2312
181     grep -v "^\*node_modules/" | grep -v "^\*package-lock\.json:"
182 }
183
184 not_dependencies_find() {
185     not_JS_dependencies_find
186 }
187
188 not_dependencies_grep() {
189     not_JS_dependencies_grep
190 }
191
192 not_python_cache_find() {
193     # shellcheck disable=SC2312
194     grep -vE "^(|/)__pycache__/" | grep -vE "^(|/)\.mypy_cache/"
195 }
196
197 not_python_cache_grep() {
198     # shellcheck disable=SC2312
199     grep -v "^\*\__pycache__/" | grep -v "^\*\.\mypy_cache/"
200 }
201
202 not_cache_find() {
203     not_python_cache_find
204 }
205
206 not_cache_grep() {
207     not_python_cache_grep
208 }

```

```

209
210 not_git_find() {
211     grep -vE "^(|/)\.git/"
212 }
213
214 not_git_grep() {
215     grep -v "^[^:]*\.\git/"
216 }
217
218 not_archive_find() {
219     grep -vE "(\.gz|\.\rar|\.\tar|\.\tgz|\.\whl)$"
220 }
221
222 not_archive_grep() {
223     grep -vE "^[^:]*(\.gz|\.\rar|\.\tar|\.\tgz|\.\whl):"
224 }
225
226 not_license_find() {
227     # shellcheck disable=SC2312
228     grep -vE "^(|/)COPYING$" | grep -vE "^(|/)COPYING\.LESSER$"
229 }
230
231 not_license_grep() {
232     # shellcheck disable=SC2312
233     grep -v "^[^:]*COPYING:" | grep -v "^[^:]*COPYING\.LESSER:"
234 }
235
236 not_main_tex_find() {
237     grep -vE "^(|/)\$\{repository_name\}\.tex$"
238 }
239
240 not_main_tex_grep() {
241     grep -v "^[^:]*\$\{repository_name\}\.tex:"
242 }
243
244 not_main_html_find() {
245     grep -vE "^(|/)\$\{repository_name\}\.html$"
246 }
247
248 not_main_html_grep() {
249     grep -v "^[^:]*\$\{repository_name\}\.html:"
250 }
251
252 not_temp_file_find() {
253     grep -vE "^(|/)build_and_checks_variables/temp/.*$"
254 }

```

```

255
256     not_temp_file_grep() {
257         grep -v "^[^:]*/build_and_checks_variables/temp/[^\n]*$"
258     }
259
260     relevant_find() {
261         # shellcheck disable=SC2312
262         not_dependencies_find | not_cache_find | not_git_find \
263         | not_archive_find | not_temp_file_find
264     }
265
266     relevant_grep() {
267         # shellcheck disable=SC2312
268         not_dependencies_grep | not_cache_grep | not_git_grep \
269         | not_archive_grep | not_temp_file_grep
270     }

```

## **2.30 build\_and\_checks\_dependencies/lines\_maps.libr.sh**

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "lines_maps.sh" to "lines_maps.libr.sh".
25 #
26 # https://en.wikibooks.org/wiki/Unicode/Character_reference/2000-2FFF
27 # Some invisible unicode characters that are a problem:

```

```

28 # 2000-200F 2028-202F 205F 2060-206F
29 #
30 # [
31 #   '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007',
32 #   '2008', '2009', '200A', '200B', '200C', '200D', '200E', '200F',
33 #   '2028', '2029', '202A', '202B', '202C', '202D', '202E', '202F',
34 #   '205F',
35 #   '2060', '2061', '2062', '2063', '2064', '2065', '2066', '2067',
36 #   '2068', '2069', '206A', '206B', '206C', '206D', '206E', '206F',
37 ]
38 replace_non_ascii_spaces() {
39     # shellcheck disable=SC2312
40     sed -e 's/\xc2\x{a0}/ /g' \
41         | sed -e 's/\xe2\x80\x{80}/ /g' \
42         | sed -e 's/\xe2\x80\x{81}/ /g' \
43         | sed -e 's/\xe2\x80\x{82}/ /g' \
44         | sed -e 's/\xe2\x80\x{83}/ /g' \
45         | sed -e 's/\xe2\x80\x{84}/ /g' \
46         | sed -e 's/\xe2\x80\x{85}/ /g' \
47         | sed -e 's/\xe2\x80\x{86}/ /g' \
48         | sed -e 's/\xe2\x80\x{87}/ /g' \
49         | sed -e 's/\xe2\x80\x{88}/ /g' \
50         | sed -e 's/\xe2\x80\x{89}/ /g' \
51         | sed -e 's/\xe2\x80\x{8a}/ /g' \
52         | sed -e 's/\xe2\x80\x{8b}/ /g' \
53         | sed -e 's/\xe2\x80\x{8c}/ /g' \
54         | sed -e 's/\xe2\x80\x{8d}/ /g' \
55         | sed -e 's/\xe2\x80\x{8e}/ /g' \
56         | sed -e 's/\xe2\x80\x{8f}/ /g' \
57         | sed -e 's/\xe2\x80\x{a8}/ /g' \
58         | sed -e 's/\xe2\x80\x{a9}/ /g' \
59         | sed -e 's/\xe2\x80\x{aa}/ /g' \
60         | sed -e 's/\xe2\x80\x{ab}/ /g' \
61         | sed -e 's/\xe2\x80\x{ac}/ /g' \
62         | sed -e 's/\xe2\x80\x{ad}/ /g' \
63         | sed -e 's/\xe2\x80\x{ae}/ /g' \
64         | sed -e 's/\xe2\x80\x{af}/ /g' \
65         | sed -e 's/\xe2\x81\x{9f}/ /g' \
66         | sed -e 's/\xe2\x81\x{a0}/ /g' \
67         | sed -e 's/\xe2\x81\x{a1}/ /g' \
68         | sed -e 's/\xe2\x81\x{a2}/ /g' \
69         | sed -e 's/\xe2\x81\x{a3}/ /g' \
70         | sed -e 's/\xe2\x81\x{a4}/ /g' \
71         | sed -e 's/\xe2\x81\x{a5}/ /g' \
72         | sed -e 's/\xe2\x81\x{a6}/ /g' \
73         | sed -e 's/\xe2\x81\x{a7}/ /g' \
74         | sed -e 's/\xe2\x81\x{a8}/ /g' \

```

```

74 | sed -e 's/\xe2\x81\xa9/ /g' \
75 | sed -e 's/\xe2\x81\xaa/ /g' \
76 | sed -e 's/\xe2\x81\xab/ /g' \
77 | sed -e 's/\xe2\x81\xac/ /g' \
78 | sed -e 's/\xe2\x81\xad/ /g' \
79 | sed -e 's/\xe2\x81\xae/ /g' \
80 | sed -e 's/\xe2\x81\xaf/ /g'
81 }

```

### 2.31 build\_and\_checks\_dependencies/overwrite\_if\_not\_equal.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "overwrite_if_not_equal.sh"
25 # to "overwrite_if_not_equal.libr.sh".
26
27 overwrite_if_not_equal() {
28     # $1=$target_file_name
29     # $2=$temp_file_name
30     # $3=$keep_temp
31     # $4=$tree_mode : when the two files are the output of tree command,
32     # we ignore if all the differences are only on directories.
33     if [[ ! -f "$1" ]]; then
34         if [[ -n "$3" ]]; then
35             cp -p "$2" "$1"

```

```

36     else
37         mv "$2" "$1"
38     fi
39     return
40 fi
41 declare -i LFBFL_is_equal=$?
42 if [[ -n "$4" ]]; then
43     # shellcheck disable=SC2312
44     diff "$1" "$2" | grep -E "^(>|<)" | grep -v "/$"
45     LFBFL_is_equal=1-$?
46 else
47     diff -q "$1" "$2"
48     LFBFL_is_equal=$?
49 fi
50 # shellcheck disable=SC2250
51 if [[ $LFBFL_is_equal == 0 ]]; then
52     if [[ -z "$3" ]]; then
53         rm "$2"
54     fi
55 else
56     if [[ -n "$3" ]]; then
57         cp -p "$2" "$1"
58     else
59         mv "$2" "$1"
60     fi
61 fi
62 }

```

## 2.32 build\_and\_checks\_dependencies/python\_black\_complement.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.

```

```

17  #
18  # You should have received a copy of
19  # the GNU General Public License
20  # along with DevOrSysAdminScripts.
21  # If not, see <https://www.gnu.org/licenses/>.
22  #
23  # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24  # This file was renamed from "python_black_complement.sh"
25  # to "python_black_complement.libr.sh".
26  #
27  # It was rejected to enhance black with this currently.
28  # https://github.com/psf/black/issues/2370
29  # And moreover, at some point, I saw the reverse rule
30  # in black or pylint to add an empty line...
31  # This regexp may give false positives,
32  # but that's not the end of the world.
33  check_no_empty_line_after_python_function_docstring() {
34      echo "Checking empty lines after Python function docstrings"
35      pcregrep -M $'def [^"]*"""([^\"]|"(?!")")*"""\n\n(?!`def)`\n      -- **/*.py
36  }
37  #
38  python_black_complement() {
39      check_no_empty_line_after_python_function_docstring
40  }

```

### **2.33 build\_and\_checks\_dependencies/python\_isort\_complement.libr.sh**

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of

```

```

19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "python_isort_complement.sh"
25 # to "python_isort_complement.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/lines_filters.libr.sh"
30 # shellcheck disable=SC1090
31 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
32
33 check_collections_abc_place(){
34     echo "Checking import of _collections_abc is at the right place"
35     declare -r LFBFL_temp=".check_collections_abc_place.temp"
36     # shellcheck disable=SC2312
37     find . -name "*.py" | relevant_find\
38         | while read -r LFBFL_file_name; do
39             [[ -f "${LFBFL_file_name}" ]] || continue
40             sed -Ez 's/(\nfrom _collections_abc[^\\n]*)/\\1\\n/Mg' \
41                 "${LFBFL_file_name}" > "${LFBFL_file_name}${LFBFL_temp}"
42             overwrite_if_not_equal "${LFBFL_file_name}"\
43                 "${LFBFL_file_name}${LFBFL_temp}"
44     done
45 }
46
47 python_isort_complement(){
48     check_collections_abc_place
49 }

```

## 2.34 build\_and\_checks\_dependencies/split\_score.exec.php

```

1 #!/usr/bin/php
2 <?php
3 /*
4 This file is part of DevOrSysAdminScripts library.
5
6 DevOrSysAdminScripts is free software:
7 you can redistribute it and/or modify it under the terms
8 of the GNU Lesser General Public License
9 as published by the Free Software Foundation,
10 either version 3 of the License,
11 or (at your option) any later version.
12

```

```

13 DevOrSysAdminScripts is distributed in the hope
14 that it will be useful,
15 but WITHOUT ANY WARRANTY;
16 without even the implied warranty of
17 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
18 See the GNU Lesser General Public License for more details.
19
20 You should have received a copy of
21 the GNU Lesser General Public License
22 along with DevOrSysAdminScripts.
23 If not, see <https://www.gnu.org/licenses/>.
24
25 ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
26 2026-01-04T13:38+01:00: This file was renamed from
27 "split_line_at_most.exec.php"
28 to
29 "split_score.exec.php".
30 This file was renamed from
31 "call_split_score_after_before_or_before_after.exec.php" to
32 "split_line_at_most.exec.php".
33 This file was renamed from
34 "call_split_score_after_before_or_before_after.php" to
35 "call_split_score_after_before_or_before_after.exec.php".
36 */
37
38 require_once('./build_and_checks_dependencies/split_score.libr.php');
39
40 /*
41 php -r \
42 '$require_once("./build_and_checks_dependencies/' \
43 '$split_score.libr.php');' \
44 '$ echo(generate_split_score' \
45 '$ (true, 70, [\'/\']) (\'/\', 60, true));'
46 */
47
48 // The first cast "(int) generate_split_score" is to avoid false
49 // positive errors on possible XSS if output is unescaped.
50 echo(
51     (int) generate_split_score(
52         (bool) $argv[1], (int) $argv[2], explode(',', $argv[3]),
53         ) ($argv[4], (int) $argv[5], (bool) $argv[6])
54 );

```

## 2.35 build\_and\_checks\_dependencies/split\_score.libr.php

```
1 <?php
2 /*
3 This file is part of DevOrSysAdminScripts library.
4
5 DevOrSysAdminScripts is free software:
6 you can redistribute it and/or modify it under the terms
7 of the GNU Lesser General Public License
8 as published by the Free Software Foundation,
9 either version 3 of the License,
10 or (at your option) any later version.
11
12 DevOrSysAdminScripts is distributed in the hope
13 that it will be useful,
14 but WITHOUT ANY WARRANTY;
15 without even the implied warranty of
16 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
17 See the GNU Lesser General Public License for more details.
18
19 You should have received a copy of
20 the GNU Lesser General Public License
21 along with DevOrSysAdminScripts.
22 If not, see <https://www.gnu.org/licenses/>.
23
24 ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
25 2026-01-04T13:38+01:00: This file was renamed from
26 "split_line_at_most.libr.php"
27 to
28 "split_score.libr.php".
29 This file was renamed from "split_line_at_most.php" to
30 "split_line_at_most.libr.php".
31 */
32
33 function generate_split_score(
34     $b_after_before,
35     $i_max_length,
36     $a_delimiter_strings_domain,
37 ) {
38     return function(
39         $s_delimiter_string,
40         $i_cut_position,
41         $b_is_cut_after,
42     ) use ($b_after_before, $i_max_length, $s_delimiter_strings_domain) {
43         if (
44             !in_array(
```

```

45         $s_delimiter_string, $s_delimiter_strings_domain, true
46     )
47 }
48 // I do not handle regexps for the moment.
49 // I'm too brainfucked. I just want to finish this feature fast
50 // for HTML and Tex/PDF listings generation with HTML and Tex on
51 // at most 70 characters.
52 return 0;
53 }
54 if($b_is_cut_after === $b_after_before) {
55     // When $b_after_before,
56     // always way better to cut after '/' than before it.
57     // When !$b_after_before (aka before_after),
58     // always way better to cut before '/' than after it.
59     return 1 + $i_max_length + $i_cut_position;
60 }
61 return 1 + $i_cut_position;
62 };
63 }
```

## 2.36 build\_and\_checks\_dependencies/strings\_functions.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # I think I created a file strings_functions.sh or renamed to
```

```

25  # strings_functions.sh at some point, before committing.
26  # Hence, someone must have changed or reversed the name of this file
27  # to string_functions.sh at some point.
28  # This file was renamed from "string_functions.sh" to
29  # "strings_functions.libr.sh".
30
31 LFBFL_subdir="build_and_checks_dependencies"
32 # shellcheck disable=SC1090
33 source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
34 # shellcheck disable=SC1090
35 source "./${LFBFL_subdir}/comparisons.libr.sh"
36
37 split_line_at() {
38     # $1=$line
39     # $2=$position
40     declare -g split_line_at_result_beginning="${1:0:$2}"
41     declare -g split_line_at_result_end="${1:$2}"
42     # echo "$split_line_at_result_beginning"
43     # echo "$split_line_at_result_end"
44 }
45
46 split_score_simple() {
47     # $1=$after_before
48     # $2=$delimiters_strings_domain concatenated characters/delimiters
49     # $3=$delimiter_string a single character
50     # $4=$is_cut_after
51     declare -gi split_score_result
52     if [[ "$2" != *$3* ]]; then
53         split_score_result=0
54         return
55     fi
56     if [[ "$4" == "$1" ]]; then
57         split_score_result=2
58         return
59     fi
60     split_score_result=1
61 }
62
63 get_split_score_simple() {
64     # $1=$after_before
65     # $2=$max_length
66     # $3=$delimiters_strings_domain
67     declare -g get_split_score_result="split_score_simple \$1 '\$3'"
68     declare -gi get_split_score_result2
69     # shellcheck disable=SC2034,2125
70     get_split_score_result2=7+$1*4

```

```

71      # if [[ $1 -eq 1 ]]; then
72      #     get_split_score_result2=7
73      # else
74      #     get_split_score_result2=11
75      # fi
76  }
77
78  get_split_score_exec() {
79      declare -g SPLIT_SCORE_EXEC="./build_and_checks_dependencies"
80      SPLIT_SCORE_EXEC+="/split_score.exec.php"
81  }
82
83  split_score() {
84      # $1=$after_before
85      # $2=$max_length
86      # $3=$delimiters_strings_domain concatenated characters/delimiters
87      # $4=$delimiter_string a single character
88      # $5=$cut_position
89      # $6=$is_cut_after
90      get_split_score_exec
91      declare -r LFBFL_command="${SPLIT_SCORE_EXEC} \$1 \$2 '\$3' '\$4' \$5 \$6"
92      declare -gi split_score_result
93      split_score_result=$(eval "${LFBFL_command}")
94  }
95
96  get_split_score() {
97      # $1=$after_before
98      # $1=$max_length
99      # $2=$delimiters_strings_domain
100     # shellcheck disable=SC2034
101     declare -g get_split_score_result="split_score \$1 \$2 '\$3'"
102     declare -gi get_split_score_result2
103     # shellcheck disable=SC2034,2125
104     get_split_score_result2=5+$1*4
105  }
106
107  split_line_at_most() {
108      # $1=$line
109      # $2=$max_length of beginning result string
110      # $3=$split_score_command
111      #     negative score means do not consider as a possible split
112      # $4=$split_score_command_properties :
113      #     These properties are flags.
114      #     If someday some property is not a flag,
115      #     then create split_score_command_properties2.
116      #     - null or 0 no property;

```

```

117  #      - 1 split score doesn't depend on which delimiter matches;
118  #      - 2 split score doesn't depend on the current position;
119  #      - 4 any split score after is always larger
120  #          than any split score before;
121  #      - 8 any split score before is always larger
122  #          than any split score after;
123  # $5=$forbidden_previous_character
124  # $6=$split_score_command_delimiter_strings_domain
125  # optimisation if small domain
126  #      - this argument can be "null", then we will use $3 only instead,
127  #          in that case, only mono-character strings are considered,
128  #      - this argument can be an array of characters,
129  #          optimize accordingly,
130  #      - this argument can be an array of strings,
131  #          optimize accordingly,
132  #      - this argument can be an array of regexps,
133  #          optimize accordingly.
134  # Not sure an array of regexps makes more sense than a single
135  # one. Maybe they could be both cases with corresponding
136  # optimizations. Same for a single character or substring.
137  #
138  # Note that we're always looking for the last position to split
139  # among maximum score;
140  # if some position gets as score from 2 delimiters,
141  # its score is always the maximum of the two corresponding scores.
142 declare -g split_line_at_most_result_start
143 declare -g split_line_at_most_result_end
144 declare -A LFBFL_positions
145 # echo "$1 $2 $3 $4"
146 # For my use case in bash scripts, I will need only an array of
147 # characters. See get_split_score_after_before().
148 if [[ -n "$6" ]]; then
149     echo "split_line_at_most() \${$4} NOT IMPLEMENTED YET"
150 fi
151 if [[ "$2" -ge "${#1}" ]]; then
152     split_line_at_most_result_start=$1
153     split_line_at_most_result_end=""
154     return
155 fi
156 declare -r LFBFL_sort_command="sort --numeric-sort"
157 declare -r LFBFL_length_minus_1=$(( ${#1} - 1 ))
158 declare -r LFBFL_i_max=$(( ${LFBFL_sort_command} ${LFBFL_length_minus_1} ${2} ))
159
160 )
161 local LFBFL_i
162 local LFBFL_j

```

```

163 local LFBFL_previous_char
164 local LFBFL_current_char
165
166 # At the beginning, each position has score 0.
167 for ((LFBFL_i=0; LFBFL_i<=LFBFL_i_max; ++LFBFL_i)) do
168     LFBFL_positions["${LFBFL_i}"]="0"
169 done
170 LFBFL_j=$((LFBFL_i+1))
171 LFBFL_positions["${LFBFL_j}"]="0"
172
173 # If we have a forbidden previous character,
174 # we mark the forbidden positions with -1.
175 if [[ -n "$5" ]]; then
176     LFBFL_previous_char=""
177     for ((LFBFL_i=0; LFBFL_i<LFBFL_i_max; ++LFBFL_i)) do
178         LFBFL_j=$((LFBFL_i+1))
179         if [[ ${LFBFL_i} -ge 1 ]]; then
180             LFBFL_previous_char="${LFBFL_current_char}"
181         fi
182         LFBFL_current_char="${1:${LFBFL_i}:1}"
183         if [[ "${LFBFL_previous_char}" == "$5" ]]; then
184             LFBFL_positions["${LFBFL_i}"]="-1"
185         fi
186         if [[ "${LFBFL_current_char}" == "$5" ]]; then
187             LFBFL_positions["${LFBFL_j}"]="-1"
188         fi
189     done
190 fi
191
192 if [[ "$4" == "7" ]]; then
193     for ((LFBFL_j=LFBFL_i_max; LFBFL_j>0; --LFBFL_j)) do
194         LFBFL_i=$((LFBFL_j-1))
195         LFBFL_current_char="${1:${LFBFL_i}:1}"
196         eval "$3 '\${LFBFL_current_char}' 0"
197         # echo "${split_score_result}|${LFBFL_i}"
198         if [[ ${split_score_result} -ge 1 ]]; then
199             # echo "${split_score_result}|${LFBFL_i}"
200             if [[ ${LFBFL_positions["${LFBFL_i}"]} != "-1" ]]; then
201                 LFBFL_positions["${LFBFL_i}"]=$((
202                     max "${LFBFL_sort_command}" \
203                         "${LFBFL_positions["${LFBFL_i}"]}") \
204                         "${split_score_result}")
205             )
206         fi
207     fi
208     eval "$3 '\${LFBFL_current_char}' 1"

```

```

209     # echo "${split_score_result}|${LFBFL_j}"
210     if [[ ${split_score_result} -ge 1 ]]; then
211         # echo "${split_score_result}|${LFBFL_j}"
212         if [[ ${LFBFL_positions["${LFBFL_j}"]} != "-1" ]]; then
213             LFBFL_positions["${LFBFL_j}"]=$(((
214                 max ${LFBFL_sort_command} \\
215                 ${LFBFL_positions["${LFBFL_j}"]} ) \\
216                 ${split_score_result}
217             )
218             break
219         fi
220     fi
221     done
222 else
223     for ((LFBFL_i=0; LFBFL_i<LFBFL_i_max; ++LFBFL_i)) do
224         LFBFL_j=$((LFBFL_i+1))
225         LFBFL_current_char="${1:$LFBFL_i:1}"
226         eval "$3 '\$LFBFL_current_char' \$LFBFL_i 0"
227         # echo "${split_score_result}|${LFBFL_i}"
228         if [[ ${split_score_result} -ge 1 ]]; then
229             # echo "${split_score_result}|${LFBFL_i}"
230             if [[ ${LFBFL_positions["${LFBFL_i}"]} != "-1" ]]; then
231                 LFBFL_positions["${LFBFL_i}"]=$(((
232                     max ${LFBFL_sort_command} \\
233                     ${LFBFL_positions["${LFBFL_i}"]} ) \\
234                     ${split_score_result}
235             )
236             fi
237         fi
238         eval "$3 '\$LFBFL_current_char' \$LFBFL_j 1"
239         # echo "${split_score_result}|${LFBFL_j}"
240         if [[ ${split_score_result} -ge 1 ]]; then
241             # echo "${split_score_result}|${LFBFL_j}"
242             if [[ ${LFBFL_positions["${LFBFL_j}"]} != "-1" ]]; then
243                 LFBFL_positions["${LFBFL_j}"]=$(((
244                     max ${LFBFL_sort_command} \\
245                     ${LFBFL_positions["${LFBFL_j}"]} ) \\
246                     ${split_score_result}
247             )
248             fi
249         fi
250     done
251 fi
252 declare -r LFBFL_max_score=\
253 $(max 'sort --numeric-sort' "${LFBFL_positions[@]}")
254 local LFBFL_best_position

```

```

255  for ((LFBFL_i=0; LFBFL_i<=LFBFL_i_max; ++LFBFL_i)) do
256      local LFBFL_value=${LFBFL_positions[$LFBFL_i]}
257      # echo "${LFBFL_i} ${LFBFL_value}"
258      if [[ "${LFBFL_value}" == "${LFBFL_max_score}" ]]; then
259          LFBFL_best_position="${LFBFL_i}"
260      fi
261  done
262  split_line_at "$1" "${LFBFL_best_position}"
263  # shellcheck disable=SC2250
264  split_line_at_most_result_start=$split_line_at_result_beginning
265  split_line_at_most_result_end="$split_line_at_result_end"
266  # echo "$split_line_at_most_result_start"
267  # echo "$split_line_at_most_result_end"
268 }
269
270 split_last_line() {
271     # $1=$new_lines
272     # $2=$prefix
273     # $3=$max_length
274     # $4=$suffix
275     # $5=$split_score_command
276     # $6=$split_score_command_properties
277     # $7=$forbidden_previous_character ('\\' usually)
278     # In general, a prefix/suffix can be a required line prefix/suffix
279     # for all final lines like a comment prefix,
280     # or it can be a continuation line prefix/suffix applied only
281     # when splitting a line in 2 lines,
282     # or it can be a prefix/suffix for the string made of all the lines.
283     # Clearly, there is no gain to couple handling a prefix/suffix for
284     # the string made of all the lines in this function.
285     # Since we add a prefix/suffix when splitting,
286     # it is easy to see that we do not need to distinguish between
287     # required line prefix/suffix and continuation line prefix/suffix.
288     # The $2 and $4 arguments are given as concatenation of the
289     # required and continuation line prefixes/suffixes as needed by the
290     # user.
291     # Thus lines arguments should be given already prefixed
292     # and suffixed.
293     # This is logic, since it would be cumbersome to handle prefixing
294     # or not already splitted lines in this function
295     # (see repeated_split_last_line).
296     # The given max_length is the goal.
297     # This function adapts the effective max position for the split by
298     # taking into account the length of the suffix.
299 declare -g split_last_line_result="$1"
300 declare -r LFBFL_max_length_plus=$((3 + 1))

```

```

301 declare -r LFBFL_length2=$((3 - ${#4}))
302 declare -r LFBFL_regexp='.'${LFBFL_max_length_plus}'\}$'
303 # shellcheck disable=SC2312
304 if echo "$1" | sed -e 's/\n/\n/g' | grep -q "${LFBFL_regexp}"; then
305     # shellcheck disable=SC2312
306     declare -r LFBFL_start=$(
307         echo "$1" | sed -e 's/\n/\n/g' | head --lines=-1\
308         | sed -z 's/\n/\n/g'\'
309     )
310     # echo "start: $LFBFL_start"
311     declare -r LFBFL_last_line=$(
312         echo "$1" | sed -e 's/\n/\n/g' | tail --lines=1\
313     )
314     # echo "last_line: ${LFBFL_last_line}"
315     split_last_line_result=""
316     if [[ -n "${LFBFL_start}" ]]; then
317         split_last_line_result="${LFBFL_start}\n"
318     fi
319     if [[ -n "$5" ]]; then
320         split_line_at_most "${LFBFL_last_line}" "${LFBFL_length2}" \
321             "$5" "$6" "$7"
322         split_last_line_result+="${split_line_at_most_result_start}${4}"
323         split_last_line_result+="\n"
324         split_last_line_result+="$2${split_line_at_most_result_end}"
325     else
326         # shellcheck disable=SC2250
327         split_last_line_result+="${LFBFL_last_line}:0:${LFBFL_length2}${4}"
328         split_last_line_result+="\n"
329         # shellcheck disable=SC2250
330         split_last_line_result+="$2${LFBFL_last_line}:${LFBFL_length2}"
331     fi
332 fi
333 }
334
335 repeated_split_last_line() {
336     declare -g repeated_split_last_line_result="$1"
337     local LFBFL_i
338     for ((LFBFL_i=0; LFBFL_i<$6; ++LFBFL_i)) do
339         split_last_line "${repeated_split_last_line_result}" "$2" "$3" \
340             "$4" "$5" "$6" "$7"
341         repeated_split_last_line_result="${split_last_line_result}"
342         # echo "${split_last_line_result}"
343     done
344 }

```

## 2.37 build\_and\_checks\_dependencies/too\_long\_code\_lines.libr.sh

```
1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "too_long_code_lines.sh"
25 # to "too_long_code_lines.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
30
31 too_long_code_lines() {
32     get_COMMON_TEXT_FILES_GLOB_PATTERNS
33     local LFBFL_pattern
34     local LFBFL_file_name
35     local LFBFL_line
36     local LFBFL_extension
37     local LFBFL_base_name
38     # shellcheck disable=SC2154
39     for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
40         [[ "$1" != "-v" ]]\|
41             || echo "Iterating on pattern: ${LFBFL_pattern}"
42     # shellcheck disable=SC2312
43     find . -type f -name "${LFBFL_pattern}" -printf '%P\n'\
44         | xargs grep -H '\{71\}' | while read -r LFBFL_long_line
```

```

45      do
46          LFBFL_file_name=${LFBFL_long_line%%:*}
47          LFBFL_line=${LFBFL_long_line#*:}
48          LFBFL_line="${LFBFL_line%/*}"
49          LFBFL_extension=${LFBFL_file_name##*.}
50          LFBFL_base_name=${LFBFL_file_name%.*}
51          if [[ "${LFBFL_extension}" == "html" ]]; then
52              if [[ -f "${LFBFL_base_name}.md" ]]; then
53                  continue
54              fi
55              if grep --quiet --fixed-strings "${LFBFL_line}" \
56                  "./build_and_checks_variables/temp/files_listing.html.tpl"
57              then
58                  continue
59              fi
60              echo "${LFBFL_long_line}"
61          elif [[ "${LFBFL_extension}" == "md" ]]; then
62              if ! [[ -f "${LFBFL_base_name}.md.tpl" ]]; then
63                  echo "${LFBFL_long_line}"
64              fi
65          else
66              echo "${LFBFL_long_line}"
67          fi
68      done
69  done
70 }

```

### 2.38 build\_and\_checks\_dependencies/update\_common\_build\_and\_checks.exec.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #

```

```

18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "update_common_build_and_checks.sh"
25 # to "update_common_build_and_checks.exec.sh".
26
27 # shellcheck disable=SC1091
28 source "overwrite_if_not_equal.libr.sh"
29
30 update_common_build_and_checks() {
31     declare -i LFBFL_verbose=0
32     if [[ "$1" == "--verbose" ]]; then
33         echo "$0 $*"
34         LFBFL_verbose="--verbose"
35     fi
36     # shellcheck disable=SC2034
37     readonly LFBFL_verbose
38
39     declare -r LFBFL_common_file_name="common_build_and_checks.exec.sh"
40     cp "./${LFBFL_common_file_name}.tpl" \
41         "./${LFBFL_common_file_name}.temp"
42
43     declare -r LFBFL_file_names=( \
44         "build_md_from_printable_md.exec.sh" \
45         "check_shell_scripts_beginnings.libr.sh" \
46         "check_URLs.libr.sh" \
47         "comparisons.libr.sh" \
48         "create_PDF.exec.sh" \
49         "generate_from_template.libr.sh" \
50         "get_common_text_glob_patterns.libr.sh" \
51         "grammar_and_spell_check.libr.sh" \
52         "licenses_templates/build_licenses_templates.exec.sh" \
53         "licenses_templates/license_file_header_AGPLv3+.tpl" \
54         "licenses_templates/license_file_header_GPLv3+.tpl" \
55         "licenses_templates/license_file_header_LGPLv3+.tpl" \
56         "lines_counts.libr.sh" \
57         "lines_filters.libr.sh" \
58         "lines_maps.libr.sh" \
59         "update_or_check_files_names_listing.exec.sh" \
60         "overwrite_if_not_equal.libr.sh" \
61         "python_black_complement.libr.sh" \
62         "python_isort_complement.libr.sh" \
63         "split_score.exec.php" \

```

```

64      "split_score.libr.php" \
65      "strings_functions.libr.sh" \
66      "too_long_code_lines.libr.sh" \
67  )
68
69  local LFBFL_file_name
70  local LFBFL_file_sha512
71  local LFBFL_file_sha512_all
72  local LFBFL_base_file_name
73  for LFBFL_file_name in "${LFBFL_file_names[@]}"; do
74      # shellcheck disable=SC2312
75      LFBFL_file_sha512=$(
76          sha512sum "./${LFBFL_file_name}" | cut -f1 -d' '
77      )
78      LFBFL_file_sha512_all="local LFBFL_correct_sha512\n"
79      LFBFL_file_sha512_all+="  LFBFL_correct_sha512=\""
80      LFBFL_file_sha512_all+="${LFBFL_file_sha512:0:45}'\n"
81      LFBFL_file_sha512_all+="  LFBFL_correct_sha512\+="
82      LFBFL_file_sha512_all+="${LFBFL_file_sha512:45:44}'\n"
83      LFBFL_file_sha512_all+="  LFBFL_correct_sha512\+="
84      LFBFL_file_sha512_all+="${LFBFL_file_sha512:89}'"
85      LFBFL_base_file_name=$(basename "${LFBFL_file_name}")
86      sed -i \
87          "s|@sha512_${LFBFL_base_file_name}|${LFBFL_file_sha512_all}|g" \
88          "./${LFBFL_common_file_name}.temp"
89  done
90
91  overwrite_if_not_equal "./${LFBFL_common_file_name}" \
92      "./${LFBFL_common_file_name}.temp"
93
94  declare -r LFBFL_main_file_name="build_and_checks.exec.sh"
95  cp "./${LFBFL_main_file_name}.tpl" "../${LFBFL_main_file_name}.temp"
96
97  # shellcheck disable=SC2312
98  LFBFL_file_sha512=$(
99      sha512sum "./${LFBFL_common_file_name}" | cut -f1 -d' '
100 )
101 LFBFL_file_sha512_all="local LFBFL_correct_sha512\n"
102 LFBFL_file_sha512_all+="  LFBFL_correct_sha512=\""
103 LFBFL_file_sha512_all+="${LFBFL_file_sha512:0:45}'\n"
104 LFBFL_file_sha512_all+="  LFBFL_correct_sha512\+="
105 LFBFL_file_sha512_all+="${LFBFL_file_sha512:45:44}'\n"
106 LFBFL_file_sha512_all+="  LFBFL_correct_sha512\+="
107 LFBFL_file_sha512_all+="${LFBFL_file_sha512:89}'"
108 sed -i \
109     "s|@sha512_${LFBFL_common_file_name}|${LFBFL_file_sha512_all}|g" \

```

```

110     ".../${LFBFL_main_file_name}.temp"
111
112     overwrite_if_not_equal ".../${LFBFL_main_file_name}" \
113         ".../${LFBFL_main_file_name}.temp"
114 }
115
116 update_common_build_and_checks "$@"

```

## 2.39 build\_and\_checks\_dependencies/update\_or\_check\_files\_names\_listing.exec.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24
25 # 2025-12-30T21:33+01:00: This file was moved from
26 # "./build_and_checks_dependencies/listings"
27 # to
28 # "./build_and_checks_dependencies".
29 # This file was renamed from "update_or_check_files_names_listing.sh"
30 # to "update_or_check_files_names_listing.exec.sh".
31 # This file was renamed from "update_or_check_file_names_listing.sh"
32 # to "update_or_check_files_names_listing.sh"?
33
34 LFBFL_verbose=""
35 if [[ "$2" == "--verbose" ]]; then
36     echo "$0 $*"

```

```

37     LFBFL_verbose="--verbose"
38 fi
39 readonly LFBFL_verbose
40
41 LFBFL_subdir="build_and_checks_dependencies"
42 # shellcheck disable=SC1090
43 source "./${LFBFL_subdir}/lines_filters.libr.sh"
44 # shellcheck disable=SC1090
45 source "./${LFBFL_subdir}/strings_functions.libr.sh"
46 LFBFL_subdir2="build_and_checks_variables"
47 files_names_listing="./${LFBFL_subdir2}/files_names_listing.txt"
48
49 if [[ "$1" == "--write" ]]; then
50   : > "${files_names_listing}"
51 fi
52 sed_expression='s/\\\\\\n//Mg'
53 sed -Ez "${sed_expression}" "${files_names_listing}" \
54   > "${files_names_listing}.temp1"
55 sed -Ez "${sed_expression}" "${files_names_listing}.temp1" \
56   > "${files_names_listing}.temp2"
57 sed -Ez "${sed_expression}" "${files_names_listing}.temp2" \
58   > "${files_names_listing}.temp3"
59 sed -Ez "${sed_expression}" "${files_names_listing}.temp3" \
60   > "${files_names_listing}.temp4"
61 shopt -s dotglob
62 get_split_score_simple 1 70 /
63 # shellcheck disable=SC2154
64 split_score_command="${get_split_score_result}"
65 # shellcheck disable=SC2154
66 split_score_command_properties="${get_split_score_result2}"
67 # shellcheck disable=SC1003
68 suffix='\\'
69 # shellcheck disable=SC2312
70 find . -type f -printf '%P\n' | relevant_find | sort \
71   | while read -r file_name;
72 do
73   git check-ignore -q "${file_name}" && continue
74   base_file_name=$(basename "${file_name}")
75   [[ "${base_file_name}" != "files_names_listing.txt.temp1" ]] \
76     || continue
77   [[ "${base_file_name}" != "files_names_listing.txt.temp2" ]] \
78     || continue
79   [[ "${base_file_name}" != "files_names_listing.txt.temp3" ]] \
80     || continue
81   [[ "${base_file_name}" != "files_names_listing.txt.temp4" ]] \
82     || continue

```

```

83     if [[ "${base_file_name}" == *.md ]]; then
84         if [[ -f "${file_name}.tpl" ]]; then
85             continue
86         fi
87     fi
88     repeated_split_last_line "${file_name}" "" 70 "${suffix}" \
89         "${split_score_command}" "${split_score_command_properties}"
90     # shellcheck disable=SC2154
91     split_file_name="${repeated_split_last_line_result}"
92     if [[ "$1" == "--write" ]]; then
93         # shellcheck disable=SC2001
94         echo "${file_name}" \
95             | sed -e "s|${file_name}|${split_file_name}|g" \
96             >> "${files_names_listing}"
97         continue
98     fi
99     if grep -q "${file_name}\$" "${files_names_listing}.temp4"; then
100    :
101 else
102     echo \
103         "The file ${file_name} is not listed in ${files_names_listing}."
104     if [[ "$1" == "--append" ]]; then
105         # shellcheck disable=SC2001
106         echo "${file_name}" \
107             | sed -e \
108                 "s|${file_name}|${split_file_name}|g" \
109             >> "${files_names_listing}"
110     fi
111 fi
112 done
113
114 # shellcheck disable=SC2002,2312
115 cat "${files_names_listing}.temp4" | while read -r file_name;
116 do
117     [[ "${file_name}" != '/*' ]] || continue
118     base_file_name=$(basename "${file_name}")
119     if ! [[ -f "${file_name}" ]]; then
120         echo \
121             "The non-file ${file_name} is listed in ${files_names_listing}."
122     fi
123 done
124
125 rm "${files_names_listing}.temp1" "${files_names_listing}.temp2" \
126     "${files_names_listing}.temp3" "${files_names_listing}.temp4"
127 shopt -u dotglob
128 shopt -s globstar

```

```
129
130 if [[ -n "${LFBFL_verbose}" ]]; then
131   cat "${files_names_listing}"
132 fi
```

## **2.40 build\_and\_checks\_variables/.gitignore**

```
1 temp/
2 upgrade_venvs_ts
3
```

## **2.41 build\_and\_checks\_variables/bandit.ini**

```
1 # FILE: .bandit
2 [bandit]
```

## **2.42 build\_and\_checks\_variables/bandit\_baseline.json**

```
1 {"results": []}
```

## **2.43 build\_and\_checks\_variables/DevOrSysAdminScripts.html.tpl**

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <!--
4 This file is part of DevOrSysAdminScripts library.
5
6 DevOrSysAdminScripts is free software:
7 you can redistribute it and/or modify it under the terms
8 of the GNU Lesser General Public License
9 as published by the Free Software Foundation,
10 either version 3 of the License,
11 or (at your option) any later version.
12
13 DevOrSysAdminScripts is distributed in the hope
14 that it will be useful,
15 but WITHOUT ANY WARRANTY;
16 without even the implied warranty of
17 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
18 See the GNU Lesser General Public License for more details.
19
20 You should have received a copy of
21 the GNU Lesser General Public License
22 along with DevOrSysAdminScripts.
23 If not, see <https://www.gnu.org/licenses/>.
```

```

25  ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
26  -->
27  <head>
28  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
29  <meta name="generator" content="DevOrSysAdminScripts">
30  <style type="text/css">
31  .title{
32      margin: 2ex auto;
33      text-align: center;
34  }
35  .titlemain{
36      margin: 1ex 2ex 2ex 1ex;
37  }
38  .titlerest{
39      margin: 0ex 2ex;
40  }
41  table{
42      border-collapse: collapse;
43  }
44  td{
45      padding: 0;
46  }
47  pre{
48      text-align: left;
49      margin-left: 0ex;
50      margin-right: auto;
51  }
52  pre.numbered_lines:before{
53      background: snow;
54      border-right: 1px black solid;
55      color: #010101;
56      content: attr(line-numbers);
57      float: left;
58      padding: 0 1ch;
59      text-align: right;
60  }
61  blockquote{
62      margin-left: 4ex;
63      margin-right: 4ex;
64      text-align: left;
65  }
66  ol.level1, ol.level2{
67      list-style-type: none;
68      /* 
69      list-style-type: decimal;
70      Previous rule is shorter and more efficient if you need only level1.

```

```

71     But you don't have accessible counter if you use decimal.
72     */
73 }
74 ol.level1{
75   counter-reset: level1;
76 }
77 ol.level2{
78   counter-reset: level2;
79 }
80 ol.level1 li:before{
81   content: counter(level1) ". ";
82   counter-increment: level1;
83 }
84 ol.level2 li:before{
85   content: counter(level1) "." counter(level2) " ";
86   counter-increment: level2;
87 }
88 </style>
89 <title>@repository_name@</title>
90 </head>
91 <body >
92 <table class="title">
93   <tr>
94     <td style="padding:1ex">
95       <h1 class="titlemain">@repository_name@</h1>
96       <h3 class="titlerest">
97         @author_full_name@
98         <br>
99         <a href="@author_website@">
100           <span style="font-family:monospace">
101             @author_website@
102           </span>
103           </a>
104           <br>
105           <a href="mailto:@author_email@">
106             <span style="font-family:monospace">
107               @author_email@
108             </span>
109             </a>
110           </h3>
111         </td>
112       </tr>
113     </table>
114
115   <blockquote class="abstract">
116     <span style="font-weight:bold">Abstract:</span>

```

```

117     @abstract@
118 </blockquote>
119 <p>Current version: @current_date@</p>
120 <p>Current number of commits: @number_of_commits@</p>
121 <p>Current git SHA1: @current_git_SHA1@</p>
122 <p>
123 Code lines: @number_of_lines@
124 </p>
125
126
127 <h2>Contents</h2>
128
129 <ol class="level1">
130   <li><a href="#section1">Files Tree</a></li>
131   <li><a href="#section2">Listing of files</a><br>
132     <ol class="level2">
133       @files_lis@
134     </ol>
135   </li>
136 </ol>
137
138
139 <h2 id="section1">1 Files tree</h2>
140 <pre class="verbatim">
141 @current_tree_light@
142 </pre>
143 <pre class="verbatim">
144 @current_tree@
145 </pre>
146
147
148 <h2 id="section2">2 Listing of files</h2>
149
150 <p>
151 This repository is dual licensed.
152 All the Bash scripts source code is covered by GPLv3+.
153 All the PHP scripts source code is covered by LGPLv3+.
154 </p>
155
156 <p>
157 The text of the licenses is available at:
158 <a href="https://www.gnu.org/licenses/"><span
159   style="font-family:monospace"
160   >https://www.gnu.org/licenses/</span></a>.
161 The git repository of this source code is also available at:
162 <a href="https://github.com/LLyaudet/@repository_name@/"><span

```

```

163     style="font-family:monospace"
164 >https://github.com/LLyaudet/@repository_name@</span></a>.
165 </p>
166
167 <p>
168 Here is a listing of the dependencies of the code in this repository:
169 <ul>
170   <li> The following dependencies are GPLv3+ licensed:<br>
171   basename, bash (and its builtins), cat, chmod, cp, cut, date, diff,
172   dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum,
173   shellcheck, sort, tail, wc, wget, xargs
174   <li> The following dependencies are GPLv2+ licensed:<br>
175   more, pandoc, pdftex, pdflatex, tree
176   <li> The following dependencies are GPLv2 licensed:<br>
177   git, pylint
178   <li> The following dependencies are LGPLv2.1+ licensed:<br>
179   notify-send
180   <li> The following dependencies are MIT licensed:<br>
181   black, isort, mypy
182   <li> The following dependencies are Apache-2.0 licensed:<br>
183   bandit
184   <li> php is licensed under PHP License v3.01
185   <li> tex is licensed under Knuth license
186   <li> pcregrep has a custom license from Cambridge University
187 </ul>
188 </p>
189
190 <p>
191 Remark: Some commands listed under GPLv3+ are POSIX
192 and can have different implementations under another license;
193 for example, uutils coreutils is MIT licensed,
194 whilst GNU coreutils is GPLv3+ licensed.
195 </p>
196
197 @files_listing_HTMLPreInput@
198
199 <p>
200 @acknowledgments@
201 </p>
202
203 <script>
204 "use strict";
205 const pres = Array.from(
206   document.getElementsByClassName('numbered_lines')
207 );
208 pres.forEach(

```

```

209     (pre) => {
210       const nb = Array.from(pre.innerText.matchAll("\n")).length + 1;
211       let numbers = "";
212       for(let i = 1; i <= nb; ++i){
213         numbers += i.toString();
214         if(i < nb){ numbers += "\n ";}
215       }
216       pre.setAttribute('line-numbers', numbers);
217     }
218   );
219 </script>
220 </html>

```

## 2.44 build\_and\_checks\_variables/DevOrSysAdminScripts.tex.tpl

```

1  % This file is part of DevOrSysAdminScripts library.
2  %
3  % DevOrSysAdminScripts is free software:
4  % you can redistribute it and/or modify it under the terms
5  % of the GNU Lesser General Public License
6  % as published by the Free Software Foundation,
7  % either version 3 of the License,
8  % or (at your option) any later version.
9  %
10 % DevOrSysAdminScripts is distributed in the hope
11 % that it will be useful,
12 % but WITHOUT ANY WARRANTY;
13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU Lesser General Public License for more details.
16 %
17 % You should have received a copy of
18 % the GNU Lesser General Public License
19 % along with DevOrSysAdminScripts.
20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
23
24 % 2025-12-29T17:08+01:00: This file was moved from
25 % "./latex"
26 % to
27 % "./build_and_checks_variables".
28
29 \documentclass{article}
30
31 \usepackage[utf8]{inputenc}

```

```

32  \usepackage[T1]{fontenc}
33  \usepackage{subfigure}
34  \usepackage{amsmath}
35  \usepackage{amssymb}
36  \usepackage{amsthm}
37  \usepackage[pdfTeX]{hyperref}
38  \usepackage{tikz}
39  \usepackage{caption}
40  \usepackage[round]{natbib}
41  \usepackage{fancyhdr}
42  \usepackage{amsfonts}
43  \usepackage{times}
44  \usepackage{ifpdf}
45  \usepackage{latexsym}
46  \usepackage{graphicx}
47  \usepackage{enumerate}
48  \usepackage{pmbboxdraw}
49  \usepackage{fancyvrb}
50  \usepackage[french,english]{babel}
51
52  % *** les environnements ***
53  %\theoremstyle{break}
54  \newtheorem{definition}{Definition}[section]
55  \newtheorem{proposition}[definition]{Proposition}
56  \newtheorem{theorem}[definition]{Theorem}
57  \newtheorem{lemma}[definition]{Lemma}
58  \newtheorem{corollary}[definition]{Corollary}
59  \newtheorem{remark}[definition]{Remark}
60  \newtheorem{openproblem}[definition]{Open problem}
61
62  \begin{document}
63
64  \author{
65    @author_full_name@\\
66    \url{@author_website@} \\
67    \href{mailto:@author_email@}{@author_email@}
68  }
69  \title{@repository_name@}
70
71  \maketitle
72  \begin{abstract}
73  @abstract@
74  \end{abstract}
75
76  Current version: @current_date@
77

```

```

78 Current number of commits: @number_of_commits@
79
80 Current git SHA1: @current_git_SHA1@
81
82 Code lines: @number_of_lines@
83
84 \tableofcontents
85 \newpage
86
87 \section{Files tree}
88 \label{section:tree}
89
90 \begin{verbatim}
91 @current_tree_light@
92 \end{verbatim}
93
94 \begin{verbatim}
95 @current_tree@
96 \end{verbatim}
97
98 \section{Listing of files}
99 \label{section:listing}
100
101 This repository is dual licensed.
102 All the Bash scripts source code is covered by GPLv3+.
103 All the PHP scripts source code is covered by GPLv3+.
104
105 The text of the licenses is available at:
106 \url{https://www.gnu.org/licenses/}.
107 The git repository of this source code is also available at:
108 \url{https://github.com/LLyaudet/@repository_name@/}.
109
110 Here is a listing of the dependencies of the code in this repository:
111 \begin{itemize}
112 \item The following dependencies are GPLv3+ licensed:\newline
113 basename, bash (and its builtins), cat, chmod, cp, cut, date, diff,
114 dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum,
115 shellcheck, sort, tail, wc, wget, xargs
116 \item The following dependencies are GPLv2+ licensed:\newline
117 more, pandoc, pdftex, pdflatex, tree
118 \item The following dependencies are GPLv2 licensed:\newline
119 git, pylint
120 \item The following dependencies are LGPLv2.1+ licensed:\newline
121 notify-send
122 \item The following dependencies are MIT licensed:\newline
123 black, isort, mypy

```

```

124 \item The following dependencies are Apache-2.0 licensed:\newline
125 bandit
126 \item php is licensed under PHP License v3.01
127 \item tex is licensed under Knuth license
128 \item pcregrep has a custom license from Cambridge University
129 \end{itemize}
130
131 Remark: Some commands listed under GPLv3+ are POSIX
132 and can have different implementations under another license;
133 for example, uutils coreutils is MIT licensed,
134 whilst GNU coreutils is GPLv3+ licensed.
135
136 @files_listing_VerbatimInput@
137
138 @acknowledgments@
139
140 \end{document}

```

## **2.45 build\_and\_checks\_variables/files\_listing.tex.tpl**

```

1 \subsection{
2     build\_and\_checks\_dependencies/build\_and\_checks.exec.sh.tpl
3 }
4 \label{
5     build_and_checks_dependencies:build_and_checksexecshtpl
6 }
7
8 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
9 build_and_checks_dependencies/build_and_checks.exec.sh.tpl
10 }
11
12
13 \subsection{
14     build\_and\_checks\_dependencies/%
15 build\_md\_from\_printable\_md.exec.sh
16 }
17 \label{
18     build_and_checks_dependencies:build_md_from_printable_mdexecsh
19 }
20
21 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
22 build_and_checks_dependencies/build_md_from_printable_md.exec.sh
23 }
24
25
26 \subsection{

```

```

27     build\_and\_checks\_dependencies/%
28 check\_shell\_scripts\_beginnings.libr.sh
29 }
30 \label{
31     build_and_checks_dependencies:check_shell_scripts_beginningslibrsh
32 }
33
34 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
35 build_and_checks_dependencies/check_shell_scripts_beginnings.libr.sh
36 }
37
38
39 \subsection{
40     build\_and\_checks\_dependencies/check\_URLs.libr.sh
41 }
42 \label{
43     build_and_checks_dependencies:check_URLslibrsh
44 }
45
46 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
47 build_and_checks_dependencies/check_URLs.libr.sh
48 }
49
50
51 \subsection{
52     build\_and\_checks\_dependencies/common\_build\_and\_checks.exec.sh
53 }
54 \label{
55     build_and_checks_dependencies:common_build_and_checksexecsh
56 }
57
58 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
59 build_and_checks_dependencies/common_build_and_checks.exec.sh
60 }
61
62
63 \subsection{
64     build\_and\_checks\_dependencies/%
65 common\_build\_and\_checks.exec.sh.tpl
66 }
67 \label{
68     build_and_checks_dependencies:common_build_and_checksexecstpl
69 }
70
71 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
72 build_and_checks_dependencies/common_build_and_checks.exec.sh.tpl

```

```

73    }
74
75
76 \subsection{
77     build\_and\_checks\_dependencies/comparisons.libr.sh
78 }
79 \label{
80     build_and_checks_dependencies:comparisonslibrsh
81 }
82
83 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
84 build_and_checks_dependencies/comparisons.libr.sh
85 }
86
87 \subsection{
88     build\_and\_checks\_dependencies/create\_PDF.exec.sh
89 }
90 \label{
91     build_and_checks_dependencies:create_PDFexecsh
92 }
93
94 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
95 build_and_checks_dependencies/create_PDF.exec.sh
96 }
97
98
99 \subsection{
100    build\_and\_checks\_dependencies/generate\_from\_template.libr.sh
101 }
102 \label{
103    build_and_checks_dependencies:generate_from_templatelibrsh
104 }
105
106 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
107 build_and_checks_dependencies/generate_from_template.libr.sh
108 }
109
110
111 \subsection{
112     build\_and\_checks\_dependencies/%
113     get\_common\_text\_glob\_patterns.libr.sh
114 }
115 \label{
116     build_and_checks_dependencies:get_common_text_glob_patternslibrsh
117 }
118 }
```

```

119
120 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
121 build_and_checks_dependencies/get_common_text_glob_patterns.libr.sh
122 }
123
124
125 \subsection{
126   build\_\_and\_\_checks\_\_dependencies/grammar\_\_and\_\_spell\_\_check.libr.sh
127 }
128 \label{
129   build_and_checks_dependencies:grammar_and_spell_checklibrsh
130 }
131
132 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
133 build_and_checks_dependencies/grammar_and_spell_check.libr.sh
134 }
135
136
137 \subsection{
138   build\_\_and\_\_checks\_\_dependencies/licenses\_templates/%
139 build\_\_licenses\_templates.exec.sh
140 }
141 \label{
142   build_and_checks_dependencies:licenses_templates:%
143 build_licenses_templatesexecsh
144 }
145
146 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
147 build_and_checks_dependencies/licenses_templates/%
148 build_licenses_templates.exec.sh
149 }
150
151
152 \subsection{
153   build\_\_and\_\_checks\_\_dependencies/licenses\_templates/%
154 license\_file\_header\_AGPLv3+.c.tpl
155 }
156 \label{
157   build_and_checks_dependencies:licenses_templates:%
158 license_file_header_AGPLv3+ctpl
159 }
160
161 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
162 build_and_checks_dependencies/licenses_templates/%
163 license_file_header_AGPLv3+.c.tpl
164 }

```

```

165
166 \subsection{
167     build_and_checks_dependencies/licenses/_templates/%
168     license_file_header_AGPLv3+.py.tpl
169 }
170 \label{
171     build_and_checks_dependencies:licenses_templates:%
172     license_file_header_AGPLv3+pytpl
173 }
174
175
176 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
177 build_and_checks_dependencies/licenses_templates/%
178 license_file_header_AGPLv3+.py.tpl
179 }
180
181
182 \subsection{
183     build_and_checks_dependencies/licenses/_templates/%
184     license_file_header_AGPLv3+.sh.tpl
185 }
186 \label{
187     build_and_checks_dependencies:licenses_templates:%
188     license_file_header_AGPLv3+shtpl
189 }
190
191 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
192 build_and_checks_dependencies/licenses_templates/%
193 license_file_header_AGPLv3+.sh.tpl
194 }
195
196
197 \subsection{
198     build_and_checks_dependencies/licenses/_templates/%
199     license_file_header_AGPLv3+.tex.tpl
200 }
201 \label{
202     build_and_checks_dependencies:licenses_templates:%
203     license_file_header_AGPLv3+texttpl
204 }
205
206 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
207 build_and_checks_dependencies/licenses_templates/%
208 license_file_header_AGPLv3+.tex.tpl
209 }
210

```

```

211
212 \subsection{
213     build_and_checks_dependencies/licenses/_templates/%
214     license_file_header_AGPLv3+.tpl
215 }
216 \label{
217     build_and_checks_dependencies:licenses_templates:%
218     license_file_header_AGPLv3+tpl
219 }
220
221 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
222 build_and_checks_dependencies/licenses_templates/%
223 license_file_header_AGPLv3+.tpl
224 }
225
226
227 \subsection{
228     build_and_checks_dependencies/licenses/_templates/%
229     license_file_header_GPLv3+.c.tpl
230 }
231 \label{
232     build_and_checks_dependencies:licenses_templates:%
233     license_file_header_GPLv3+ctpl
234 }
235
236 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
237 build_and_checks_dependencies/licenses_templates/%
238 license_file_header_GPLv3+.c.tpl
239 }
240
241
242 \subsection{
243     build_and_checks_dependencies/licenses/_templates/%
244     license_file_header_GPLv3+.py.tpl
245 }
246 \label{
247     build_and_checks_dependencies:licenses_templates:%
248     license_file_header_GPLv3+pytpl
249 }
250
251 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
252 build_and_checks_dependencies/licenses_templates/%
253 license_file_header_GPLv3+.py.tpl
254 }
255
256

```

```

257 \subsection{
258   build_and_checks_dependencies/licenses/_templates/%
259   license_file_header_GPLv3+.sh.tpl
260 }
261 \label{
262   build_and_checks_dependencies:licenses_templates:%
263   license_file_header_GPLv3+shtpl
264 }
265
266 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
267 build_and_checks_dependencies/licenses_templates/%
268 license_file_header_GPLv3+.sh.tpl
269 }
270
271 \subsection{
272   build_and_checks_dependencies/licenses/_templates/%
273   license_file_header_GPLv3+.tex.tpl
274 }
275 \label{
276   build_and_checks_dependencies:licenses_templates:%
277   license_file_header_GPLv3+textpl
278 }
279
280 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
281 build_and_checks_dependencies/licenses_templates/%
282 license_file_header_GPLv3+.tex.tpl
283 }
284
285
286 \subsection{
287   build_and_checks_dependencies/licenses/_templates/%
288   license_file_header_GPLv3+.tpl
289 }
290 \label{
291   build_and_checks_dependencies:licenses_templates:%
292   license_file_header_GPLv3+tpl
293 }
294
295 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
296 build_and_checks_dependencies/licenses_templates/%
297 license_file_header_GPLv3+.tpl
298 }
299
300
301 \subsection{

```

```

303     build\_and\_checks\_dependencies/licenses\_templates/%
304     license\_file\_header\_LGPLv3+.c.tpl
305 }
306 \label{
307     build_and_checks_dependencies:licenses_templates:%
308     license_file_header_LGPLv3+ctpl
309 }
310
311 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
312 build_and_checks_dependencies/licenses_templates/%
313     license_file_header_LGPLv3+.c.tpl
314 }
315
316
317 \subsection{
318     build\_and\_checks\_dependencies/licenses\_templates/%
319     license\_file\_header\_LGPLv3+.py.tpl
320 }
321 \label{
322     build_and_checks_dependencies:licenses_templates:%
323     license_file_header_LGPLv3+pytpl
324 }
325
326 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
327 build_and_checks_dependencies/licenses_templates/%
328     license_file_header_LGPLv3+.py.tpl
329 }
330
331
332 \subsection{
333     build\_and\_checks\_dependencies/licenses\_templates/%
334     license\_file\_header\_LGPLv3+.sh.tpl
335 }
336 \label{
337     build_and_checks_dependencies:licenses_templates:%
338     license_file_header_LGPLv3+shtpl
339 }
340
341 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
342 build_and_checks_dependencies/licenses_templates/%
343     license_file_header_LGPLv3+.sh.tpl
344 }
345
346
347 \subsection{
348     build\_and\_checks\_dependencies/licenses\_templates/%

```

```

349 license\_file\_header\_LGPLv3+.tex.tpl
350 }
351 \label{
352     build_and_checks_dependencies:licenses_templates:%
353     license_file_header_LGPLv3+texttpl
354 }
355
356 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
357 build_and_checks_dependencies/licenses_templates/%
358     license_file_header_LGPLv3+.tex.tpl
359 }
360
361
362 \subsection{
363     build_and_checks_dependencies/licenses_templates/%
364     license_file_header_LGPLv3+.tpl
365 }
366 \label{
367     build_and_checks_dependencies:licenses_templates:%
368     license_file_header_LGPLv3+tpl
369 }
370
371 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
372 build_and_checks_dependencies/licenses_templates/%
373     license_file_header_LGPLv3+.tpl
374 }
375
376
377 \subsection{
378     build_and_checks_dependencies/lines_counts.libr.sh
379 }
380 \label{
381     build_and_checks_dependencies:lines_countslibrsh
382 }
383
384 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
385 build_and_checks_dependencies/lines_counts.libr.sh
386 }
387
388
389 \subsection{
390     build_and_checks_dependencies/lines_filters.libr.sh
391 }
392 \label{
393     build_and_checks_dependencies:lines_filterslibrsh
394 }

```

```

395
396 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
397 build_and_checks_dependencies/lines_filters.libr.sh
398 }
399
400
401 \subsection{
402   build\_\_and\_\_checks\_\_dependencies/lines\_maps.libr.sh
403 }
404 \label{
405   build_and_checks_dependencies:lines_mapslibrsh
406 }
407
408 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
409 build_and_checks_dependencies/lines_maps.libr.sh
410 }
411
412
413 \subsection{
414   build\_\_and\_\_checks\_\_dependencies/overwrite\_if\_not\_equal.libr.sh
415 }
416 \label{
417   build_and_checks_dependencies:overwrite_if_not_equallibrsh
418 }
419
420 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
421 build_and_checks_dependencies/overwrite_if_not_equal.libr.sh
422 }
423
424
425 \subsection{
426   build\_\_and\_\_checks\_\_dependencies/python\_black\_complement.libr.sh
427 }
428 \label{
429   build_and_checks_dependencies:python_black_complementlibrsh
430 }
431
432 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
433 build_and_checks_dependencies/python_black_complement.libr.sh
434 }
435
436
437 \subsection{
438   build\_\_and\_\_checks\_\_dependencies/python\_isort\_complement.libr.sh
439 }
440 \label{

```

```

441     build_and_checks_dependencies:python_isort_complementlibrsh
442 }
443
444 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
445 build_and_checks_dependencies/python_isort_complement.libr.sh
446 }
447
448 \subsection{
449     build\_\_and\_\_checks\_\_dependencies/split\_score.exec.php
450 }
451 \label{
452     build_and_checks_dependencies:split_scoreexecphp
453 }
454
455 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
456 build_and_checks_dependencies/split_score.exec.php
457 }
458
459
460 \subsection{
461     build\_\_and\_\_checks\_\_dependencies/split\_score.libr.php
462 }
463 \label{
464     build_and_checks_dependencies:split_scorelibrphp
465 }
466
467 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
468 build_and_checks_dependencies/split_score.libr.php
469 }
470
471
472 \subsection{
473     build\_\_and\_\_checks\_\_dependencies/strings\_functions.libr.sh
474 }
475 \label{
476     build_and_checks_dependencies:strings_functionslibrsh
477 }
478
479 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
480 build_and_checks_dependencies/strings_functions.libr.sh
481 }
482
483
484 \subsection{
485     build\_\_and\_\_checks\_\_dependencies/too\_long\_code\_lines.libr.sh
486 }
```

```

487 }
488 \label{
489     build_and_checks_dependencies:too_long_code_lineslibrsh
490 }
491
492 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
493 build_and_checks_dependencies/too_long_code_lines.libr.sh
494 }
495
496
497 \subsection{
498     build\_\_and\_\_checks\_\_dependencies/%
499 update\_\_common\_\_build\_\_and\_\_checks.exec.sh
500 }
501 \label{
502     build_and_checks_dependencies:update_common_build_and_checksexecsh
503 }
504
505 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
506 build_and_checks_dependencies/update_common_build_and_checks.exec.sh
507 }
508
509
510 \subsection{
511     build\_\_and\_\_checks\_\_dependencies/%
512 update\_\_or\_\_check\_\_files\_\_names\_\_listing.exec.sh
513 }
514 \label{
515     build_and_checks_dependencies:%
516 update_or_check_files_names_listingexecsh
517 }
518
519 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
520 build_and_checks_dependencies/%
521 update_or_check_files_names_listing.exec.sh
522 }
523
524
525 \subsection{
526     build\_\_and\_\_checks\_\_variables/.gitignore
527 }
528 \label{
529     build_and_checks_variables:gitignore
530 }
531
532 \VerbatimInput [numbers=left,xleftmargin=-5mm] {

```

```

533 build_and_checks_variables/.gitignore
534 }
535
536
537 \subsection{
538     build_and_checks_variables/bandit.ini
539 }
540 \label{
541     build_and_checks_variables:banditini
542 }
543
544 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
545 build_and_checks_variables/bandit.ini
546 }
547
548 \subsection{
549     build_and_checks_variables/bandit\_baseline.json
550 }
551 \label{
552     build_and_checks_variables:bandit_baselinejson
553 }
554
555 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
556 build_and_checks_variables/bandit_baseline.json
557 }
558
559
560 \subsection{
561     build_and_checks_variables/DevOrSysAdminScripts.html.tpl
562 }
563 \label{
564     build_and_checks_variables:DevOrSysAdminScriptshmtltp1
565 }
566
567 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
568 build_and_checks_variables/DevOrSysAdminScripts.html.tpl
569 }
570
571
572 \subsection{
573     build_and_checks_variables/DevOrSysAdminScripts.tex.tpl
574 }
575 \label{
576     build_and_checks_variables:DevOrSysAdminScriptstexttpl
577 }
578

```

```

579 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
580   build_and_checks_variables/DevOrSysAdminScripts.tex.tpl
581 }
583
584
585 \subsection{
586   build\_\_and\_\_checks\_\_variables/files\_listing.tex.tpl
587 }
588 \label{
589   build_and_checks_variables:files_listingtextpl
590 }
591
592 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
593   build_and_checks_variables/files_listing.tex.tpl
594 }
595
596
597 \subsection{
598   build\_\_and\_\_checks\_\_variables/files\_names\_listing.txt
599 }
600 \label{
601   build_and_checks_variables:files_names_listingtxt
602 }
603
604 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
605   build_and_checks_variables/files_names_listing.txt
606 }
607
608
609 \subsection{
610   build\_\_and\_\_checks\_\_variables/licenses\_notes.txt
611 }
612 \label{
613   build_and_checks_variables:licenses_notestxt
614 }
615
616 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
617   build_and_checks_variables/licenses_notes.txt
618 }
619
620
621 \subsection{
622   build\_\_and\_\_checks\_\_variables/pylintrc.toml
623 }
624 \label{

```

```

625     build_and_checks_variables:pylintrc.toml
626 }
627
628 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
629 build_and_checks_variables/pylintrc.toml
630 }
631
632
633 \subsection{
634     build\_\_and\_\_checks\_\_variables/repository\_data.txt
635 }
636 \label{
637     build_and_checks_variables:repository_data.txt
638 }
639
640 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
641 build_and_checks_variables/repository_data.txt
642 }
643
644
645 \subsection{
646     build\_\_and\_\_checks.exec.sh
647 }
648 \label{
649     build_and_checksexecsh
650 }
651
652 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
653 build_and_checks.exec.sh
654 }
655
656
657 \subsection{
658     COPYING
659 }
660 \label{
661     COPYING
662 }
663
664 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
665 COPYING
666 }
667
668
669 \subsection{
670     COPYING.LESSER

```

```

671  }
672 \label{
673   COPYINGLESSER
674 }
675
676 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
677 COPYING.LESSER
678 }
679
680
681 \subsection{
682   git\_helpers/git\_checks.libr.sh
683 }
684 \label{
685   git_helpers:git_checkslibrsh
686 }
687
688 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
689 git_helpers/git_checks.libr.sh
690 }
691
692
693 \subsection{
694   git\_helpers/post-commit
695 }
696 \label{
697   git_helpers:post-commit
698 }
699
700 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
701 git_helpers/post-commit
702 }
703
704
705 \subsection{
706   git\_helpers/post\_commit\_renaming\_comment.libr.sh
707 }
708 \label{
709   git_helpers:post_commit_renaming_commentlibrsh
710 }
711
712 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
713 git_helpers/post_commit_renaming_comment.libr.sh
714 }
715
716

```

```

717 \subsection{
718     git\_helpers/pre-commit
719 }
720 \label{
721     git_helpers:pre-commit
722 }
723
724 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
725 git_helpers/pre-commit
726 }
727
728
729 \subsection{
730     LiensUtiles.txt
731 }
732 \label{
733     LiensUtilestxt
734 }
735
736 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
737 LiensUtiles.txt
738 }
739
740
741 \subsection{
742     README.md.tpl
743 }
744 \label{
745     READMEmdtpl
746 }
747
748 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
749 README.md.tpl
750 }
751
752
753 \subsection{
754     unicode.libr.php
755 }
756 \label{
757     unicodelibrphp
758 }
759
760 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
761 unicode.libr.php
762 }

```

```

763
764 \subsection{
765     upgrade\_build\_and\_checks.exec.sh
766 }
767 \label{
768     upgrade_build_and_checksexecsh
769 }
770
771 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
772     upgrade_build_and_checks.exec.sh
773 }
774
775
776 \subsection{
777     wget\_\_sha512.libr.sh
778 }
779 \label{
780     wget_sha512librsh
781 }
782
783 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
784     wget\_sha512.libr.sh
785 }
786
787
788

```

## 2.46 build\_and\_checks\_variables/files\_names\_listing.txt

```

1 // This file is part of DevOrSysAdminScripts library.
2 //
3 // DevOrSysAdminScripts is free software:
4 // you can redistribute it and/or modify it under the terms
5 // of the GNU Lesser General Public License
6 // as published by the Free Software Foundation,
7 // either version 3 of the License,
8 // or (at your option) any later version.
9 //
10 // DevOrSysAdminScripts is distributed in the hope
11 // that it will be useful,
12 // but WITHOUT ANY WARRANTY;
13 // without even the implied warranty of
14 // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 // See the GNU Lesser General Public License for more details.
16 //
17 // You should have received a copy of

```

```

18 // the GNU Lesser General Public License
19 // along with DevOrSysAdminScripts.
20 // If not, see <https://www.gnu.org/licenses/>.
21 //
22 // ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
23 // 2024-10-31T21:37+01:00: This file was moved from
24 // "./build_and_checks_dependencies/listings"
25 // to
26 // "./build_and_checks_variables".
27 // Blasé20240517Résultat.txt
28 // Blasé20240517.sh
29 // Blasé20240518_2.txt
30 // Blasé20240518_3.txt
31 build_and_checks_dependencies/build_and_checks.exec.sh.tpl
32 build_and_checks_dependencies/build_md_from_printable_md.exec.sh
33 build_and_checks_dependencies/check_shell_scripts_beginnings.libr.sh
34 build_and_checks_dependencies/check_URLs.libr.sh
35 build_and_checks_dependencies/common_build_and_checks.exec.sh
36 build_and_checks_dependencies/common_build_and_checks.exec.sh.tpl
37 build_and_checks_dependencies/comparisons.libr.sh
38 build_and_checks_dependencies/create_PDF.exec.sh
39 build_and_checks_dependencies/generate_from_template.libr.sh
40 build_and_checks_dependencies/get_common_text_glob_patterns.libr.sh
41 build_and_checks_dependencies/grammar_and_spell_check.libr.sh
42 build_and_checks_dependencies/licenses_templates/\
43 build_licenses_templates.exec.sh
44 build_and_checks_dependencies/licenses_templates/\
45 license_file_header GPLv3+.c.tpl
46 build_and_checks_dependencies/licenses_templates/\
47 license_file_header GPLv3+.py.tpl
48 build_and_checks_dependencies/licenses_templates/\
49 license_file_header GPLv3+.sh.tpl
50 build_and_checks_dependencies/licenses_templates/\
51 license_file_header GPLv3+.tex.tpl
52 build_and_checks_dependencies/licenses_templates/\
53 license_file_header GPLv3+.tpl
54 // build_and_checks_dependencies/licenses_templates/\
55 license_file_header GPLv3+.c
56 build_and_checks_dependencies/licenses_templates/\
57 license_file_header GPLv3+.c.tpl
58 // build_and_checks_dependencies/licenses_templates/\
59 license_file_header GPLv3+.py
60 build_and_checks_dependencies/licenses_templates/\
61 license_file_header GPLv3+.py.tpl
62 // build_and_checks_dependencies/licenses_templates/\
63 license_file_header GPLv3+.sh

```

```

64 build_and_checks_dependencies/licenses_templates/\
65 license_file_header_GPLv3+.sh.tpl
66 // build_and_checks_dependencies/licenses_templates/\
67 license_file_header_GPLv3+.tex
68 build_and_checks_dependencies/licenses_templates/\
69 license_file_header_GPLv3+.tex.tpl
70 build_and_checks_dependencies/licenses_templates/\
71 license_file_header_GPLv3+.tpl
72 // build_and_checks_dependencies/licenses_templates/\
73 license_file_header_LGPLv3+.c
74 build_and_checks_dependencies/licenses_templates/\
75 license_file_header_LGPLv3+.c.tpl
76 // build_and_checks_dependencies/licenses_templates/\
77 license_file_header_LGPLv3+.py
78 build_and_checks_dependencies/licenses_templates/\
79 license_file_header_LGPLv3+.py.tpl
80 // build_and_checks_dependencies/licenses_templates/\
81 license_file_header_LGPLv3+.sh
82 build_and_checks_dependencies/licenses_templates/\
83 license_file_header_LGPLv3+.sh.tpl
84 // build_and_checks_dependencies/licenses_templates/\
85 license_file_header_LGPLv3+.tex
86 build_and_checks_dependencies/licenses_templates/\
87 license_file_header_LGPLv3+.tex.tpl
88 build_and_checks_dependencies/licenses_templates/\
89 license_file_header_LGPLv3+.tpl
90 build_and_checks_dependencies/lines_counts.libr.sh
91 build_and_checks_dependencies/lines_filters.libr.sh
92 build_and_checks_dependencies/lines_maps.libr.sh
93 // build_and_checks_dependencies/listings/files_listing.tex.tpl
94 build_and_checks_dependencies/overwrite_if_not_equal.libr.sh
95 build_and_checks_dependencies/python_black_complement.libr.sh
96 build_and_checks_dependencies/python_isort_complement.libr.sh
97 build_and_checks_dependencies/split_score.exec.php
98 build_and_checks_dependencies/split_score.libr.php
99 build_and_checks_dependencies/strings_functions.libr.sh
100 build_and_checks_dependencies/too_long_code_lines.libr.sh
101 build_and_checks_dependencies/update_common_build_and_checks.exec.sh
102 build_and_checks_dependencies/\
103 update_or_check_files_names_listing.exec.sh
104 build_and_checks_variables/.gitignore
105 build_and_checks_variables/bandit.ini
106 build_and_checks_variables/bandit_baseline.json
107 build_and_checks_variables/DevOrSysAdminScripts.html.tpl
108 // build_and_checks_variables/DevOrSysAdminScripts.tex
109 build_and_checks_variables/DevOrSysAdminScripts.tex.tpl

```

```

110 build_and_checks_variables/files_listing.tpl
111 build_and_checks_variables/files_names_listing.txt
112 build_and_checks_variables/licenses_notes.txt
113 build_and_checks_variables/pylintrc.toml
114 build_and_checks_variables/repository_data.txt
115 // build_and_checks_variables/upgrade_venvs_ts
116 build_and_checks.exec.sh
117 COPYING
118 COPYING.LESSER
119 // DevOrSysAdminScripts.html
120 // DevOrSysAdminScripts.pdf
121 // EncoreBlasé20240517-20240518.txt
122 git_helpers/git_checks.libr.sh
123 git_helpers/post-commit
124 git_helpers/post_commit_renaming_comment.libr.sh
125 git_helpers/pre-commit
126 LiensUtiles.txt
127 // README.html
128 // README.md
129 README.md.tpl
130 unicode.libr.php
131 upgrade_build_and_checks.exec.sh
132 wget_sha512.libr.sh

```

## **2.47 build\_and\_checks\_variables/licenses\_notes.txt**

```

1 This repository is dual licensed.
2 All the Bash scripts source code is covered by GPLv3+.
3 All the PHP scripts source code is covered by LGPLv3+.
4
5 Here is a listing of the dependencies of the code in this repository:
6 - The following dependencies are GPLv3+ licensed:
7 basename, bash (and its builtins), cat, chmod, cp, cut, date, diff,
8 dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum,
9 shellcheck, sort, tail, wc, wget, xargs
10 - The following dependencies are GPLv2+ licensed:
11 more, pandoc, pdftex, pdflatex, tree
12 - The following dependencies are GPLv2 licensed:
13 git, pylint
14 - The following dependencies are LGPLv2.1+ licensed:
15 notify-send
16 - The following dependencies are MIT licensed:
17 black, isort, mypy
18 - The following dependencies are Apache-2.0 licensed:
19 bandit
20 - php is licensed under PHP License v3.01

```

```

21 - tex is licensed under Knuth license
22 - pcregrep has a custom license from Cambridge University
23
24 Remark: Some commands listed under GPLv3+ are POSIX
25 and can have different implementations under another license;
26 for example, uutils coreutils is MIT licensed,
27 whilst GNU coreutils is GPLv3+ licensed.

```

## **2.48 build\_and\_checks\_variables/pylintrc.toml**

```

1 [tool pylint.main]
2 exit-zero = true
3 ignore = ["node_modules"]
4 jobs = 0
5 [tool pylint.basic]
6 module-rgx = "^[_a-zA-Z0-9]+$"
7 [tool pylint.reports]
8 output-format = "colorized"

```

## **2.49 build\_and\_checks\_variables/repository\_data.txt**

```

1 Look at grep_variable to understand the structure of this file.
2 Basically, it has almost no structure apart from some lines
3 starting with a "variable_name=".
4 Anything else is comments.
5
6 repository_name=DevOrSysAdminScripts
7 repository_web_url=https://github.com/LLyaudet/DevOrSysAdminScripts/
8 repository_git_url=git@github.com:LLyaudet/DevOrSysAdminScripts.git
9
10 abstract=Some "small" useful scripts
11 abstract=for enhancing development or system-administrators tasks
12
13 license=GPLv3+
14 license2=LGPLv3+
15
16 author_email=Laurent.Lyaudet@gmail.com
17 author_full_name=Laurent Frédéric Bernard François Lyaudet
18 author_last_name=Lyaudet
19 author_name=Laurent Lyaudet
20 author_website=https://lyaudet.eu/laurent/
21
22 acknowledgments=Merci Dieu !
23 acknowledgments=Merci Père ! Merci Seigneur ! Merci Saint Esprit !
24
25 grammar_or_spell_checker_command=more

```

```

26
27
28 Why one venv for each Python dependency ?
29 Because no language of my knowledge did it right to handle all
30 possible dependency conflicts.
31 So in case of such a conflict, one specialized venv can get you out
32 of any problem.
33 The best solution would have been to allow install of different
34 versions of the same package, and have a mechanism:
35 - first intent, use the latest available version of a package among
36 those that satisfy the declared dependency constraints of the package
37 that has this dependency;
38 - second intent, check a dependency overload configuration file
39 with tree structure: if calling python package is A version 1.1.1
40 with dependency B itself with dependency C, use B 2.2.2 and C 3.3.3;
41 you could have along that another rule saying that when called
42 directly B 2.2.2 should use C 4.4.4;
43 and even more complicated:
44 if calling python package is A version 1.1.1 with dependency B and D
45 both themselves with dependency C, use B 2.2.2, D 0.1.0,
46 and C 3.3.3 for B, and C 4.4.4 for D;
47 once you've seen that it can never be more complicated than that once
48 the same version number guarantees that the code is the same,
49 you create a config language "à la CSS" for cascading dependencies ;)
50 XD fit into JSON the dumbest possible way and you stop bothering
51 about dependency conflicts for the rest of history of informatics.
52 {
53     "A": {
54         "1.1.1": {
55             "B": {
56                 "2.2.2": {
57                     "C": {
58                         // Dumb, you did not found it by yourself? Failed exam.
59                         "3.3.3" : {}
60                     }
61                 }
62             },
63             "D": {
64                 "0.1.0": {
65                     "C": {
66                         // Dumb, you did not found it by yourself? Failed exam.
67                         "4.4.4" : {}
68                     }
69                 }
70             }
71         },

```

```

72     "B": {
73         "2.2.2": {
74             "C": {
75                 // Dumb, you did not found it by yourself? Failed exam.
76                 "4.4.4" : {}
77             }
78         }
79     }
80 }
81 Wonderful someone rediscovered nested structures XD
82 Seriously so many engineers or computer scientists are dumb to cry.
83
84 bandit_venv=../venv_bandit
85 black_venv=../venv_black
86 isort_venv=../venv_isort
87 mypy_venv=../venv_mypy
88 pylint_venv=../venv_pytest
89
90
91 upgrade venvs can be auto or ask, any other value is interpreted
92 as ask.
93
94 upgrade_venvs=ask
95
96
97 time interval can be 0 to always upgrade or ask to upgrade,
98 or a number at most bash max int
99 https://superuser.com/questions/1030122/
100 what-is-the-maximum-value-of-a-numeric-bash-shell-variable
101 it should be enough to simulate never "upgrade or ask for upgrade"
102 unless you claim to live many billions years ;)
103 If it is wat, this is a random int XD (see RANDOM).
104 Note that the probability that it upgrades your dependencies is not
105 1/2, it increases over time, and is 1 after slightly
106 less than one day.
107 If it is watyouwant?, see SRANDOM XD.
108
109 upgrade_venvs_time_interval_in_seconds=wat

```

## 2.50 build\_and\_checks.exec.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms

```

```

6  # of the GNU General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "build_and_checks.exec.sh.tpl" was renamed from
25 # "build_and_checks.sh.tpl" to "build_and_checks.exec.sh.tpl".
26 # The file "build_and_checks.exec.sh" generated from the file
27 # "build_and_checks.sh.tpl" or "build_and_checks.exec.sh.tpl"
28 # was renamed from
29 # "build_and_checks.sh" to "build_and_checks.exec.sh".
30
31 build_and_checks(){
32     local LFBFL_working_directory=..
33     if [[ -n "$1" ]]; then
34         LFBFL_working_directory="$1"
35     fi
36     readonly LFBFL_working_directory
37
38     local LFBFL_verbose=""
39     if [[ "$2" == "--verbose" ]]; then
40         echo "$0 $*"
41         LFBFL_verbose="--verbose"
42     fi
43     readonly LFBFL_verbose
44
45     # shellcheck disable=SC1091
46     source ./wget_sha512.libr.sh
47
48     LFBFL_subdir="build_and_checks_dependencies"
49     mkdir -p "${LFBFL_subdir}/licenses_templates"
50     mkdir -p "build_and_checks_variables/temp"
51     if ! [[ -f "build_and_checks_variables/.gitignore" ]]; then

```

```

52     echo "temp/" > "build_and_checks_variables/.gitignore"
53     echo "" >> "build_and_checks_variables/.gitignore"
54 fi
55
56 # LFBFL_dependencies_raw_content_download_URL
57 local LFBFL_dependencies_URL
58 LFBFL_dependencies_URL="https://raw.githubusercontent.com/LLyaudet/"
59 LFBFL_dependencies_URL+="DevOrSysAdminScripts/main/${LFBFL_subdir}"
60 readonly LFBFL_dependencies_URL
61
62 declare -r LFBFL_common_file_name="common_build_and_checks.exec.sh"
63 # LFBFL_script_download_URL
64 declare -r \
65     LFBFL_script="${LFBFL_dependencies_URL}/${LFBFL_common_file_name}"
66 declare -r \
67     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_common_file_name}"
68 local LFBFL_correct_sha512
69 LFBFL_correct_sha512='6be49637348e7e413d32c2a184f6f6bf55ce62f8be106'
70 LFBFL_correct_sha512+='5761175f60b9ff81b305f6cc70c15af6c03f1b39bb77'
71 LFBFL_correct_sha512+='24021bd9f6c0e41f01f5072df48f8cd8cbcf3aa'
72 wget_sha512 "${LFBFL_file_path}" "${LFBFL_script}" \
73     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
74 chmod +x "./${LFBFL_file_path}"
75
76 "${LFBFL_file_path}" "${LFBFL_working_directory}" \
77     "${LFBFL_dependencies_URL}" "${LFBFL_verbose}"
78 }
79
80 if [[ "$*" == *--fixed_point_build* ]]; then
81     echo "--fixed_point_build"
82     source "./build_and_checks_dependencies/lines_filters.libr.sh"
83     LFBFL_data_file_name="./build_and_checks_variables/"
84     LFBFL_data_file_name+="repository_data.txt"
85     grep_variable "${LFBFL_data_file_name}" repository_name
86     # Touching the 3 following files first let us iterate
87     # upgrade_build_and_checks 2 times instead of 3 to reach
88     # a fixed point.
89     touch "./build_and_checks_variables/${repository_name}.tex"
90     touch "./${repository_name}.pdf"
91     touch "./${repository_name}.html"
92     # The two iterations of build_and_checks needs to complete
93     # during the same minute to have a fixed point.
94     build_and_checks "$@"
95     # build_and_checks "$@" second iteration below
96     # Then calling this script without --fixed_point_build should not
97     # yield any new superficial modifications.

```

```
98 fi  
99  
100 build_and_checks "$@"
```

## 2.51 COPYING

```
1          GNU GENERAL PUBLIC LICENSE  
2          Version 3, 29 June 2007  
3  
4 Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>  
5 Everyone is permitted to copy and distribute verbatim copies  
6 of this license document, but changing it is not allowed.  
7  
8          Preamble  
9  
10         The GNU General Public License is a free, copyleft license for  
11 software and other kinds of works.  
12  
13        The licenses for most software and other practical works are designed  
14 to take away your freedom to share and change the works. By contrast,  
15 the GNU General Public License is intended to guarantee your freedom to  
16 share and change all versions of a program--to make sure it remains free  
17 software for all its users. We, the Free Software Foundation, use the  
18 GNU General Public License for most of our software; it applies also to  
19 any other work released this way by its authors. You can apply it to  
20 your programs, too.  
21  
22        When we speak of free software, we are referring to freedom, not  
23 price. Our General Public Licenses are designed to make sure that you  
24 have the freedom to distribute copies of free software (and charge for  
25 them if you wish), that you receive source code or can get it if you  
26 want it, that you can change the software or use pieces of it in new  
27 free programs, and that you know you can do these things.  
28  
29        To protect your rights, we need to prevent others from denying you  
30 these rights or asking you to surrender the rights. Therefore, you have  
31 certain responsibilities if you distribute copies of the software, or if  
32 you modify it: responsibilities to respect the freedom of others.  
33  
34        For example, if you distribute copies of such a program, whether  
35 gratis or for a fee, you must pass on to the recipients the same  
36 freedoms that you received. You must make sure that they, too, receive  
37 or can get the source code. And you must show them these terms so they  
38 know their rights.  
39  
40        Developers that use the GNU GPL protect your rights with two steps:
```

41 (1) assert copyright on the software, and (2) offer you this License  
42 giving you legal permission to copy, distribute and/or modify it.

44 For the developers' and authors' protection, the GPL clearly explains  
45 that there is no warranty for this free software. For both users' and  
46 authors' sake, the GPL requires that modified versions be marked as  
47 changed, so that their problems will not be attributed erroneously to  
48 authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

67  
68 The precise terms and conditions for copying, distribution and  
69 modification follow.

## TERMS AND CONDITIONS

## 0 Definitions

"This License" refers to version 3 of the GNU General Public License.

<sup>76</sup> "Copyright" also means copyright-like laws that apply to other kinds of  
<sup>77</sup> works such as semiconductor masks.

79  
80     "The Program" refers to any copyrightable work licensed under this  
81 License. Each licensee is addressed as "you". "Licensees" and  
82 "recipients" may be individuals or organizations.

83  
84 To "modify" a work means to copy from or adapt all or part of the work  
85 in a fashion requiring copyright permission, other than the making of an  
86 exact copy. The resulting work is called a "modified version" of the

87 earlier work or a work "based on" the earlier work.

88  
89 A "covered work" means either the unmodified Program or a work based  
90 on the Program.

91  
92 To "propagate" a work means to do anything with it that, without  
93 permission, would make you directly or secondarily liable for  
94 infringement under applicable copyright law, except executing it on a  
95 computer or modifying a private copy. Propagation includes copying,  
96 distribution (with or without modification), making available to the  
97 public, and in some countries other activities as well.

98  
99 To "convey" a work means any kind of propagation that enables other  
100 parties to make or receive copies. Mere interaction with a user through  
101 a computer network, with no transfer of a copy, is not conveying.

102  
103 An interactive user interface displays "Appropriate Legal Notices"  
104 to the extent that it includes a convenient and prominently visible  
105 feature that (1) displays an appropriate copyright notice, and (2)  
106 tells the user that there is no warranty for the work (except to the  
107 extent that warranties are provided), that licensees may convey the  
108 work under this License, and how to view a copy of this License. If  
109 the interface presents a list of user commands or options, such as a  
110 menu, a prominent item in the list meets this criterion.

111  
112 1. Source Code.

113  
114 The "source code" for a work means the preferred form of the work  
115 for making modifications to it. "Object code" means any non-source  
116 form of a work.

117  
118 A "Standard Interface" means an interface that either is an official  
119 standard defined by a recognized standards body, or, in the case of  
120 interfaces specified for a particular programming language, one that  
121 is widely used among developers working in that language.

122  
123 The "System Libraries" of an executable work include anything, other  
124 than the work as a whole, that (a) is included in the normal form of  
125 packaging a Major Component, but which is not part of that Major  
126 Component, and (b) serves only to enable use of the work with that  
127 Major Component, or to implement a Standard Interface for which an  
128 implementation is available to the public in source code form. A  
129 "Major Component", in this context, means a major essential component  
130 (kernel, window system, and so on) of the specific operating system  
131 (if any) on which the executable work runs, or a compiler used to  
132 produce the work, or an object code interpreter used to run it.

133  
134     The "Corresponding Source" for a work in object code form means all  
135     the source code needed to generate, install, and (for an executable  
136     work) run the object code and to modify the work, including scripts to  
137     control those activities. However, it does not include the work's  
138     System Libraries, or general-purpose tools or generally available free  
139     programs which are used unmodified in performing those activities but  
140     which are not part of the work. For example, Corresponding Source  
141     includes interface definition files associated with source files for  
142     the work, and the source code for shared libraries and dynamically  
143     linked subprograms that the work is specifically designed to require,  
144     such as by intimate data communication or control flow between those  
145     subprograms and other parts of the work.

146  
147     The Corresponding Source need not include anything that users  
148     can regenerate automatically from other parts of the Corresponding  
149     Source.

150  
151     The Corresponding Source for a work in source code form is that  
152     same work.

153  
154     2. Basic Permissions.

155  
156     All rights granted under this License are granted for the term of  
157     copyright on the Program, and are irrevocable provided the stated  
158     conditions are met. This License explicitly affirms your unlimited  
159     permission to run the unmodified Program. The output from running a  
160     covered work is covered by this License only if the output, given its  
161     content, constitutes a covered work. This License acknowledges your  
162     rights of fair use or other equivalent, as provided by copyright law.

163  
164     You may make, run and propagate covered works that you do not  
165     convey, without conditions so long as your license otherwise remains  
166     in force. You may convey covered works to others for the sole purpose  
167     of having them make modifications exclusively for you, or provide you  
168     with facilities for running those works, provided that you comply with  
169     the terms of this License in conveying all material for which you do  
170     not control copyright. Those thus making or running the covered works  
171     for you must do so exclusively on your behalf, under your direction  
172     and control, on terms that prohibit them from making any copies of  
173     your copyrighted material outside their relationship with you.

174  
175     Conveying under any other circumstances is permitted solely under  
176     the conditions stated below. Sublicensing is not allowed; section 10  
177     makes it unnecessary.

179       3. Protecting Users' Legal Rights From Anti-Circumvention Law.

180

181       No covered work shall be deemed part of an effective technological  
182 measure under any applicable law fulfilling obligations under article  
183 11 of the WIPO copyright treaty adopted on 20 December 1996, or  
184 similar laws prohibiting or restricting circumvention of such  
185 measures.

186

187       When you convey a covered work, you waive any legal power to forbid  
188 circumvention of technological measures to the extent such circumvention  
189 is effected by exercising rights under this License with respect to  
190 the covered work, and you disclaim any intention to limit operation or  
191 modification of the work as a means of enforcing, against the work's  
192 users, your or third parties' legal rights to forbid circumvention of  
193 technological measures.

194

195       4. Conveying Verbatim Copies.

196

197       You may convey verbatim copies of the Program's source code as you  
198 receive it, in any medium, provided that you conspicuously and  
199 appropriately publish on each copy an appropriate copyright notice;  
200 keep intact all notices stating that this License and any  
201 non-permissive terms added in accord with section 7 apply to the code;  
202 keep intact all notices of the absence of any warranty; and give all  
203 recipients a copy of this License along with the Program.

204

205       You may charge any price or no price for each copy that you convey,  
206 and you may offer support or warranty protection for a fee.

207

208       5. Conveying Modified Source Versions.

209

210       You may convey a work based on the Program, or the modifications to  
211 produce it from the Program, in the form of source code under the  
212 terms of section 4, provided that you also meet all of these conditions:

213

214       a) The work must carry prominent notices stating that you modified  
215 it, and giving a relevant date.

216

217       b) The work must carry prominent notices stating that it is  
218 released under this License and any conditions added under section  
219 7. This requirement modifies the requirement in section 4 to  
220 "keep intact all notices".

221

222       c) You must license the entire work, as a whole, under this  
223 License to anyone who comes into possession of a copy. This  
224 License will therefore apply, along with any applicable section 7

225 additional terms, to the whole of the work, and all its parts,  
226 regardless of how they are packaged. This License gives no  
227 permission to license the work in any other way, but it does not  
228 invalidate such permission if you have separately received it.

230 d) If the work has interactive user interfaces, each must display  
231 Appropriate Legal Notices; however, if the Program has interactive  
232 interfaces that do not display Appropriate Legal Notices, your  
233 work need not make them do so.

234 A compilation of a covered work with other separate and independent  
235 works, which are not by their nature extensions of the covered work,  
236 and which are not combined with it such as to form a larger program,  
237 in or on a volume of a storage or distribution medium, is called an  
238 "aggregate" if the compilation and its resulting copyright are not  
239 used to limit the access or legal rights of the compilation's users  
240 beyond what the individual works permit. Inclusion of a covered work  
241 in an aggregate does not cause this License to apply to the other  
242 parts of the aggregate.

244 6. Conveying Non-Source Forms.

246 You may convey a covered work in object code form under the terms  
247 of sections 4 and 5, provided that you also convey the  
248 machine-readable Corresponding Source under the terms of this License,  
249 in one of these ways:

251 a) Convey the object code in, or embodied in, a physical product  
252 (including a physical distribution medium), accompanied by the  
253 Corresponding Source fixed on a durable physical medium  
254 customarily used for software interchange.

256 b) Convey the object code in, or embodied in, a physical product  
257 (including a physical distribution medium), accompanied by a  
258 written offer, valid for at least three years and valid for as  
259 long as you offer spare parts or customer support for that product  
260 model, to give anyone who possesses the object code either (1) a  
261 copy of the Corresponding Source for all the software in the  
262 product that is covered by this License, on a durable physical  
263 medium customarily used for software interchange, for a price no  
264 more than your reasonable cost of physically performing this  
265 conveying of source, or (2) access to copy the  
266 Corresponding Source from a network server at no charge.

268 c) Convey individual copies of the object code with a copy of the  
269 written offer to provide the Corresponding Source. This

271 alternative is allowed only occasionally and noncommercially, and  
272 only if you received the object code with such an offer, in accord  
273 with subsection 6b.

274

275 d) Convey the object code by offering access from a designated  
276 place (gratis or for a charge), and offer equivalent access to the  
277 Corresponding Source in the same way through the same place at no  
278 further charge. You need not require recipients to copy the  
279 Corresponding Source along with the object code. If the place to  
280 copy the object code is a network server, the Corresponding Source  
281 may be on a different server (operated by you or a third party)  
282 that supports equivalent copying facilities, provided you maintain  
283 clear directions next to the object code saying where to find the  
284 Corresponding Source. Regardless of what server hosts the  
285 Corresponding Source, you remain obligated to ensure that it is  
286 available for as long as needed to satisfy these requirements.

287

288 e) Convey the object code using peer-to-peer transmission, provided  
289 you inform other peers where the object code and Corresponding  
290 Source of the work are being offered to the general public at no  
291 charge under subsection 6d.

292

293 A separable portion of the object code, whose source code is excluded  
294 from the Corresponding Source as a System Library, need not be  
295 included in conveying the object code work.

296

297 A "User Product" is either (1) a "consumer product", which means any  
298 tangible personal property which is normally used for personal, family,  
299 or household purposes, or (2) anything designed or sold for incorporation  
300 into a dwelling. In determining whether a product is a consumer product,  
301 doubtful cases shall be resolved in favor of coverage. For a particular  
302 product received by a particular user, "normally used" refers to a  
303 typical or common use of that class of product, regardless of the status  
304 of the particular user or of the way in which the particular user  
305 actually uses, or expects or is expected to use, the product. A product  
306 is a consumer product regardless of whether the product has substantial  
307 commercial, industrial or non-consumer uses, unless such uses represent  
308 the only significant mode of use of the product.

309

310 "Installation Information" for a User Product means any methods,  
311 procedures, authorization keys, or other information required to install  
312 and execute modified versions of a covered work in that User Product from  
313 a modified version of its Corresponding Source. The information must  
314 suffice to ensure that the continued functioning of the modified object  
315 code is in no case prevented or interfered with solely because  
316 modification has been made.

317  
318     If you convey an object code work under this section in, or with, or  
319     specifically for use in, a User Product, and the conveying occurs as  
320     part of a transaction in which the right of possession and use of the  
321     User Product is transferred to the recipient in perpetuity or for a  
322     fixed term (regardless of how the transaction is characterized), the  
323     Corresponding Source conveyed under this section must be accompanied  
324     by the Installation Information. But this requirement does not apply  
325     if neither you nor any third party retains the ability to install  
326     modified object code on the User Product (for example, the work has  
327     been installed in ROM).

328  
329     The requirement to provide Installation Information does not include a  
330     requirement to continue to provide support service, warranty, or updates  
331     for a work that has been modified or installed by the recipient, or for  
332     the User Product in which it has been modified or installed. Access to a  
333     network may be denied when the modification itself materially and  
334     adversely affects the operation of the network or violates the rules and  
335     protocols for communication across the network.

336  
337     Corresponding Source conveyed, and Installation Information provided,  
338     in accord with this section must be in a format that is publicly  
339     documented (and with an implementation available to the public in  
340     source code form), and must require no special password or key for  
341     unpacking, reading or copying.

342  
343     7. Additional Terms.

344  
345     "Additional permissions" are terms that supplement the terms of this  
346     License by making exceptions from one or more of its conditions.  
347     Additional permissions that are applicable to the entire Program shall  
348     be treated as though they were included in this License, to the extent  
349     that they are valid under applicable law. If additional permissions  
350     apply only to part of the Program, that part may be used separately  
351     under those permissions, but the entire Program remains governed by  
352     this License without regard to the additional permissions.

353  
354     When you convey a copy of a covered work, you may at your option  
355     remove any additional permissions from that copy, or from any part of  
356     it. (Additional permissions may be written to require their own  
357     removal in certain cases when you modify the work.) You may place  
358     additional permissions on material, added by you to a covered work,  
359     for which you have or can give appropriate copyright permission.

360  
361     Notwithstanding any other provision of this License, for material you  
362     add to a covered work, you may (if authorized by the copyright holders of

363 that material) supplement the terms of this License with terms:

364

365 a) Disclaiming warranty or limiting liability differently from the  
366 terms of sections 15 and 16 of this License; or

367

368 b) Requiring preservation of specified reasonable legal notices or  
369 author attributions in that material or in the Appropriate Legal  
370 Notices displayed by works containing it; or

371

372 c) Prohibiting misrepresentation of the origin of that material, or  
373 requiring that modified versions of such material be marked in  
374 reasonable ways as different from the original version; or

375

376 d) Limiting the use for publicity purposes of names of licensors or  
377 authors of the material; or

378

379 e) Declining to grant rights under trademark law for use of some  
380 trade names, trademarks, or service marks; or

381

382 f) Requiring indemnification of licensors and authors of that  
383 material by anyone who conveys the material (or modified versions of  
384 it) with contractual assumptions of liability to the recipient, for  
385 any liability that these contractual assumptions directly impose on  
386 those licensors and authors.

387

388 All other non-permissive additional terms are considered "further  
389 restrictions" within the meaning of section 10. If the Program as you  
390 received it, or any part of it, contains a notice stating that it is  
391 governed by this License along with a term that is a further  
392 restriction, you may remove that term. If a license document contains  
393 a further restriction but permits relicensing or conveying under this  
394 License, you may add to a covered work material governed by the terms  
395 of that license document, provided that the further restriction does  
396 not survive such relicensing or conveying.

397

398 If you add terms to a covered work in accord with this section, you  
399 must place, in the relevant source files, a statement of the  
400 additional terms that apply to those files, or a notice indicating  
401 where to find the applicable terms.

402

403 Additional terms, permissive or non-permissive, may be stated in the  
404 form of a separately written license, or stated as exceptions;  
405 the above requirements apply either way.

406

407 8. Termination.

408

409        You may not propagate or modify a covered work except as expressly  
410 provided under this License. Any attempt otherwise to propagate or  
411 modify it is void, and will automatically terminate your rights under  
412 this License (including any patent licenses granted under the third  
413 paragraph of section 11).

414  
415        However, if you cease all violation of this License, then your  
416 license from a particular copyright holder is reinstated (a)  
417 provisionally, unless and until the copyright holder explicitly and  
418 finally terminates your license, and (b) permanently, if the copyright  
419 holder fails to notify you of the violation by some reasonable means  
420 prior to 60 days after the cessation.

421  
422        Moreover, your license from a particular copyright holder is  
423 reinstated permanently if the copyright holder notifies you of the  
424 violation by some reasonable means, this is the first time you have  
425 received notice of violation of this License (for any work) from that  
426 copyright holder, and you cure the violation prior to 30 days after  
427 your receipt of the notice.

428  
429        Termination of your rights under this section does not terminate the  
430 licenses of parties who have received copies or rights from you under  
431 this License. If your rights have been terminated and not permanently  
432 reinstated, you do not qualify to receive new licenses for the same  
433 material under section 10.

434  
435        9. Acceptance Not Required for Having Copies.

436  
437        You are not required to accept this License in order to receive or  
438 run a copy of the Program. Ancillary propagation of a covered work  
439 occurring solely as a consequence of using peer-to-peer transmission  
440 to receive a copy likewise does not require acceptance. However,  
441 nothing other than this License grants you permission to propagate or  
442 modify any covered work. These actions infringe copyright if you do  
443 not accept this License. Therefore, by modifying or propagating a  
444 covered work, you indicate your acceptance of this License to do so.

445  
446        10. Automatic Licensing of Downstream Recipients.

447  
448        Each time you convey a covered work, the recipient automatically  
449 receives a license from the original licensors, to run, modify and  
450 propagate that work, subject to this License. You are not responsible  
451 for enforcing compliance by third parties with this License.

452  
453        An "entity transaction" is a transaction transferring control of an  
454 organization, or substantially all assets of one, or subdividing an

455 organization, or merging organizations. If propagation of a covered  
456 work results from an entity transaction, each party to that  
457 transaction who receives a copy of the work also receives whatever  
458 licenses to the work the party's predecessor in interest had or could  
459 give under the previous paragraph, plus a right to possession of the  
460 Corresponding Source of the work from the predecessor in interest, if  
461 the predecessor has it or can get it with reasonable efforts.

462  
463 You may not impose any further restrictions on the exercise of the  
464 rights granted or affirmed under this License. For example, you may  
465 not impose a license fee, royalty, or other charge for exercise of  
466 rights granted under this License, and you may not initiate litigation  
467 (including a cross-claim or counterclaim in a lawsuit) alleging that  
468 any patent claim is infringed by making, using, selling, offering for  
469 sale, or importing the Program or any portion of it.

470  
471 11. Patents.

472  
473 A "contributor" is a copyright holder who authorizes use under this  
474 License of the Program or a work on which the Program is based. The  
475 work thus licensed is called the contributor's "contributor version".

476  
477 A contributor's "essential patent claims" are all patent claims  
478 owned or controlled by the contributor, whether already acquired or  
479 hereafter acquired, that would be infringed by some manner, permitted  
480 by this License, of making, using, or selling its contributor version,  
481 but do not include claims that would be infringed only as a  
482 consequence of further modification of the contributor version. For  
483 purposes of this definition, "control" includes the right to grant  
484 patent sublicenses in a manner consistent with the requirements of  
485 this License.

486  
487 Each contributor grants you a non-exclusive, worldwide, royalty-free  
488 patent license under the contributor's essential patent claims, to  
489 make, use, sell, offer for sale, import and otherwise run, modify and  
490 propagate the contents of its contributor version.

491  
492 In the following three paragraphs, a "patent license" is any express  
493 agreement or commitment, however denominated, not to enforce a patent  
494 (such as an express permission to practice a patent or covenant not to  
495 sue for patent infringement). To "grant" such a patent license to a  
496 party means to make such an agreement or commitment not to enforce a  
497 patent against the party.

498  
499 If you convey a covered work, knowingly relying on a patent license,  
500 and the Corresponding Source of the work is not available for anyone

501 to copy, free of charge and under the terms of this License, through a  
502 publicly available network server or other readily accessible means,  
503 then you must either (1) cause the Corresponding Source to be so  
504 available, or (2) arrange to deprive yourself of the benefit of the  
505 patent license for this particular work, or (3) arrange, in a manner  
506 consistent with the requirements of this License, to extend the patent  
507 license to downstream recipients. "Knowingly relying" means you have  
508 actual knowledge that, but for the patent license, your conveying the  
509 covered work in a country, or your recipient's use of the covered work  
510 in a country, would infringe one or more identifiable patents in that  
511 country that you have reason to believe are valid.

512

513 If, pursuant to or in connection with a single transaction or  
514 arrangement, you convey, or propagate by procuring conveyance of, a  
515 covered work, and grant a patent license to some of the parties  
516 receiving the covered work authorizing them to use, propagate, modify  
517 or convey a specific copy of the covered work, then the patent license  
518 you grant is automatically extended to all recipients of the covered  
519 work and works based on it.

520

521 A patent license is "discriminatory" if it does not include within  
522 the scope of its coverage, prohibits the exercise of, or is  
523 conditioned on the non-exercise of one or more of the rights that are  
524 specifically granted under this License. You may not convey a covered  
525 work if you are a party to an arrangement with a third party that is  
526 in the business of distributing software, under which you make payment  
527 to the third party based on the extent of your activity of conveying  
528 the work, and under which the third party grants, to any of the  
529 parties who would receive the covered work from you, a discriminatory  
530 patent license (a) in connection with copies of the covered work  
531 conveyed by you (or copies made from those copies), or (b) primarily  
532 for and in connection with specific products or compilations that  
533 contain the covered work, unless you entered into that arrangement,  
534 or that patent license was granted, prior to 28 March 2007.

535

536 Nothing in this License shall be construed as excluding or limiting  
537 any implied license or other defenses to infringement that may  
538 otherwise be available to you under applicable patent law.

539

## 540 12. No Surrender of Others' Freedom.

541

542 If conditions are imposed on you (whether by court order, agreement or  
543 otherwise) that contradict the conditions of this License, they do not  
544 excuse you from the conditions of this License. If you cannot convey a  
545 covered work so as to satisfy simultaneously your obligations under this  
546 License and any other pertinent obligations, then as a consequence you may

547 not convey it at all. For example, if you agree to terms that obligate you  
548 to collect a royalty for further conveying from those to whom you convey  
549 the Program, the only way you could satisfy both those terms and this  
550 License would be to refrain entirely from conveying the Program.

551

552     13. Use with the GNU Affero General Public License.

553

554     Notwithstanding any other provision of this License, you have  
555 permission to link or combine any covered work with a work licensed  
556 under version 3 of the GNU Affero General Public License into a single  
557 combined work, and to convey the resulting work. The terms of this  
558 License will continue to apply to the part which is the covered work,  
559 but the special requirements of the GNU Affero General Public License,  
560 section 13, concerning interaction through a network will apply to the  
561 combination as such.

562

563     14. Revised Versions of this License.

564

565     The Free Software Foundation may publish revised and/or new versions of  
566 the GNU General Public License from time to time. Such new versions will  
567 be similar in spirit to the present version, but may differ in detail to  
568 address new problems or concerns.

569

570     Each version is given a distinguishing version number. If the  
571 Program specifies that a certain numbered version of the GNU General  
572 Public License "or any later version" applies to it, you have the  
573 option of following the terms and conditions either of that numbered  
574 version or of any later version published by the Free Software  
575 Foundation. If the Program does not specify a version number of the  
576 GNU General Public License, you may choose any version ever published  
577 by the Free Software Foundation.

578

579     If the Program specifies that a proxy can decide which future  
580 versions of the GNU General Public License can be used, that proxy's  
581 public statement of acceptance of a version permanently authorizes you  
582 to choose that version for the Program.

583

584     Later license versions may give you additional or different  
585 permissions. However, no additional obligations are imposed on any  
586 author or copyright holder as a result of your choosing to follow a  
587 later version.

588

589     15. Disclaimer of Warranty.

590

591     THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY  
592 APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT

593 HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY  
594 OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,  
595 THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
596 PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM  
597 IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF  
598 ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

599

600 16. Limitation of Liability.

601

602 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING  
603 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS  
604 THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY  
605 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE  
606 USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF  
607 DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD  
608 PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),  
609 EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF  
610 SUCH DAMAGES.

611

612 17. Interpretation of Sections 15 and 16.

613

614 If the disclaimer of warranty and limitation of liability provided  
615 above cannot be given local legal effect according to their terms,  
616 reviewing courts shall apply local law that most closely approximates  
617 an absolute waiver of all civil liability in connection with the  
618 Program, unless a warranty or assumption of liability accompanies a  
619 copy of the Program in return for a fee.

620

621 END OF TERMS AND CONDITIONS

622

623 How to Apply These Terms to Your New Programs

624

625 If you develop a new program, and you want it to be of the greatest  
626 possible use to the public, the best way to achieve this is to make it  
627 free software which everyone can redistribute and change under these terms.

628

629 To do so, attach the following notices to the program. It is safest  
630 to attach them to the start of each source file to most effectively  
631 state the exclusion of warranty; and each file should have at least  
632 the "copyright" line and a pointer to where the full notice is found.

633

634 <one line to give the program's name and a brief idea of what it does.>  
635 Copyright (C) <year> <name of author>

636

637 This program is free software: you can redistribute it and/or modify  
638 it under the terms of the GNU General Public License as published by

639 the Free Software Foundation, either version 3 of the License, or  
640 (at your option) any later version.  
641  
642 This program is distributed in the hope that it will be useful,  
643 but WITHOUT ANY WARRANTY; without even the implied warranty of  
644 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
645 GNU General Public License for more details.  
646  
647 You should have received a copy of the GNU General Public License  
648 along with this program. If not, see <<https://www.gnu.org/licenses/>>.  
649  
650 Also add information on how to contact you by electronic and paper mail.  
651  
652 If the program does terminal interaction, make it output a short  
653 notice like this when it starts in an interactive mode:  
654  
655 <program> Copyright (C) <year> <name of author>  
656 This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
657 This is free software, and you are welcome to redistribute it  
658 under certain conditions; type 'show c' for details.  
659  
660 The hypothetical commands 'show w' and 'show c' should show the appropriate  
661 parts of the General Public License. Of course, your program's commands  
662 might be different; for a GUI interface, you would use an "about box".  
663  
664 You should also get your employer (if you work as a programmer) or school,  
665 if any, to sign a "copyright disclaimer" for the program, if necessary.  
666 For more information on this, and how to apply and follow the GNU GPL, see  
667 <<https://www.gnu.org/licenses/>>.  
668  
669 The GNU General Public License does not permit incorporating your program  
670 into proprietary programs. If your program is a subroutine library, you  
671 may consider it more useful to permit linking proprietary applications with  
672 the library. If this is what you want to do, use the GNU Lesser General  
673 Public License instead of this License. But first, please read  
674 <<https://www.gnu.org/licenses/why-not-lgpl.html>>.

## 2.52 COPYING.LESSER

1 GNU LESSER GENERAL PUBLIC LICENSE  
2 Version 3, 29 June 2007  
3  
4 Copyright (C) 2007 Free Software Foundation, Inc. <<https://fsf.org/>>  
5 Everyone is permitted to copy and distribute verbatim copies  
6 of this license document, but changing it is not allowed.  
7

8  
9     This version of the GNU Lesser General Public License incorporates  
10  the terms and conditions of version 3 of the GNU General Public  
11  License, supplemented by the additional permissions listed below.  
12  
13     0. Additional Definitions.  
14  
15     As used herein, "this License" refers to version 3 of the GNU Lesser  
16  General Public License, and the "GNU GPL" refers to version 3 of the GNU  
17  General Public License.  
18  
19     "The Library" refers to a covered work governed by this License,  
20  other than an Application or a Combined Work as defined below.  
21  
22     An "Application" is any work that makes use of an interface provided  
23  by the Library, but which is not otherwise based on the Library.  
24  Defining a subclass of a class defined by the Library is deemed a mode  
25  of using an interface provided by the Library.  
26  
27     A "Combined Work" is a work produced by combining or linking an  
28  Application with the Library. The particular version of the Library  
29  with which the Combined Work was made is also called the "Linked  
30  Version".  
31  
32     The "Minimal Corresponding Source" for a Combined Work means the  
33  Corresponding Source for the Combined Work, excluding any source code  
34  for portions of the Combined Work that, considered in isolation, are  
35  based on the Application, and not on the Linked Version.  
36  
37     The "Corresponding Application Code" for a Combined Work means the  
38  object code and/or source code for the Application, including any data  
39  and utility programs needed for reproducing the Combined Work from the  
40  Application, but excluding the System Libraries of the Combined Work.  
41  
42     1. Exception to Section 3 of the GNU GPL.  
43  
44     You may convey a covered work under sections 3 and 4 of this License  
45  without being bound by section 3 of the GNU GPL.  
46  
47     2. Conveying Modified Versions.  
48  
49     If you modify a copy of the Library, and, in your modifications, a  
50  facility refers to a function or data to be supplied by an Application  
51  that uses the facility (other than as an argument passed when the  
52  facility is invoked), then you may convey a copy of the modified  
53  version:

- 54  
55       a) under this License, provided that you make a good faith effort to  
56       ensure that, in the event an Application does not supply the  
57       function or data, the facility still operates, and performs  
58       whatever part of its purpose remains meaningful, or  
59  
60       b) under the GNU GPL, with none of the additional permissions of  
61       this License applicable to that copy.
- 62  
63     3. Object Code Incorporating Material from Library Header Files.  
64  
65     The object code form of an Application may incorporate material from  
66     a header file that is part of the Library. You may convey such object  
67     code under terms of your choice, provided that, if the incorporated  
68     material is not limited to numerical parameters, data structure  
69     layouts and accessors, or small macros, inline functions and templates  
70     (ten or fewer lines in length), you do both of the following:  
71  
72       a) Give prominent notice with each copy of the object code that the  
73       Library is used in it and that the Library and its use are  
74       covered by this License.  
75  
76       b) Accompany the object code with a copy of the GNU GPL and this license  
77       document.  
78  
79     4. Combined Works.  
80  
81     You may convey a Combined Work under terms of your choice that,  
82     taken together, effectively do not restrict modification of the  
83     portions of the Library contained in the Combined Work and reverse  
84     engineering for debugging such modifications, if you also do each of  
85     the following:  
86  
87       a) Give prominent notice with each copy of the Combined Work that  
88       the Library is used in it and that the Library and its use are  
89       covered by this License.  
90  
91       b) Accompany the Combined Work with a copy of the GNU GPL and this license  
92       document.  
93  
94       c) For a Combined Work that displays copyright notices during  
95       execution, include the copyright notice for the Library among  
96       these notices, as well as a reference directing the user to the  
97       copies of the GNU GPL and this license document.  
98  
99       d) Do one of the following:

100  
101 0) Convey the Minimal Corresponding Source under the terms of this  
102 License, and the Corresponding Application Code in a form  
103 suitable for, and under terms that permit, the user to  
104 recombine or relink the Application with a modified version of  
105 the Linked Version to produce a modified Combined Work, in the  
106 manner specified by section 6 of the GNU GPL for conveying  
107 Corresponding Source.  
108  
109 1) Use a suitable shared library mechanism for linking with the  
110 Library. A suitable mechanism is one that (a) uses at run time  
111 a copy of the Library already present on the user's computer  
112 system, and (b) will operate properly with a modified version  
113 of the Library that is interface-compatible with the Linked  
114 Version.  
115  
116 e) Provide Installation Information, but only if you would otherwise  
117 be required to provide such information under section 6 of the  
118 GNU GPL, and only to the extent that such information is  
119 necessary to install and execute a modified version of the  
120 Combined Work produced by recombining or relinking the  
121 Application with a modified version of the Linked Version. (If  
122 you use option 4d0, the Installation Information must accompany  
123 the Minimal Corresponding Source and Corresponding Application  
124 Code. If you use option 4d1, you must provide the Installation  
125 Information in the manner specified by section 6 of the GNU GPL  
126 for conveying Corresponding Source.)  
127  
128 5. Combined Libraries.  
129  
130 You may place library facilities that are a work based on the  
131 Library side by side in a single library together with other library  
132 facilities that are not Applications and are not covered by this  
133 License, and convey such a combined library under terms of your  
134 choice, if you do both of the following:  
135  
136 a) Accompany the combined library with a copy of the same work based  
137 on the Library, uncombined with any other library facilities,  
138 conveyed under the terms of this License.  
139  
140 b) Give prominent notice with the combined library that part of it  
141 is a work based on the Library, and explaining where to find the  
142 accompanying uncombined form of the same work.  
143  
144 6. Revised Versions of the GNU Lesser General Public License.  
145

146       The Free Software Foundation may publish revised and/or new versions  
 147      of the GNU Lesser General Public License from time to time. Such new  
 148      versions will be similar in spirit to the present version, but may  
 149      differ in detail to address new problems or concerns.  
 150  
 151      Each version is given a distinguishing version number. If the  
 152      Library as you received it specifies that a certain numbered version  
 153      of the GNU Lesser General Public License "or any later version"  
 154      applies to it, you have the option of following the terms and  
 155      conditions either of that published version or of any later version  
 156      published by the Free Software Foundation. If the Library as you  
 157      received it does not specify a version number of the GNU Lesser  
 158      General Public License, you may choose any version of the GNU Lesser  
 159      General Public License ever published by the Free Software Foundation.  
 160  
 161      If the Library as you received it specifies that a proxy can decide  
 162      whether future versions of the GNU Lesser General Public License shall  
 163      apply, that proxy's public statement of acceptance of any version is  
 164      permanent authorization for you to choose that version for the  
 165      Library.

## 2.53 git\_helpers/git\_checks.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
  
```

```

24 # 2024-05-31T01:57+02:00: This file was renamed from
25 # "git_checks.libr.sh"
26 # to
27 # "git_checks.libr.sh".
28 # 2024-05-31T01:57+02:00: This file was moved from
29 # "."
30 # to
31 # "./git_helpers".
32 # 2024-05-31T01:49+02:00: This file was renamed from
33 # "git_checks.libr.sh"
34 # to
35 # "git_checks.libr.sh".
36 # 2024-05-31T01:49+02:00: This file was moved from
37 # "."
38 # to
39 # "./git_helpers".
40 # This file was renamed from "git_checks.sh" to "git_checks.libr.sh".
41
42 check_files() {
43     # Checks used on Django projects.
44     declare -r LFBFL_send_summary_1="ATTENTION : models modifiés"
45     declare -r LFBFL_send_body_1="Vérifiez si besoin de migrations"
46     local LFBFL_send_body_2="Pensez aussi aux contraintes d'unicités"
47     LFBFL_send_body_2+=" dès la création du modèle"
48     readonly LFBFL_send_body_2
49     declare -r LFBFL_send_summary_2="ATTENTION : serializers modifiés"
50     declare -r LFBFL_send_body_3=\
51 "Les nouveaux preloadings sont interdits -> #Prefetch()"
52     # shellcheck disable=SC2312
53     if git diff --cached --name-only | grep models;
54     then
55         notify-send "${LFBFL_send_summary_1}" "${LFBFL_send_body_1}"
56         notify-send "${LFBFL_send_summary_1}" "${LFBFL_send_body_2}"
57     fi
58     # shellcheck disable=SC2312
59     if git diff --cached --name-only | grep serializer;
60     then
61         notify-send "${LFBFL_send_summary_2}" "${LFBFL_send_body_3}"
62     fi
63     return 0
64 }
65
66
67 check_no_abusive_trailing_comma() {
68     # Useful for Python code, although it regularly yields
69     # false positives in Python code

```

```

70 # (but it is easy to distinguish by hand).
71 # Use `git commit --no-verify` after check.
72 declare -r LFBFL_send_summary_1="ATTENTION"
73 local LFBFL_send_body_1="Il semblerait que vous affectiez un tuple"
74 LFBFL_send_body_1+=" au lieu d'une autre valeur dans une variable."
75 readonly LFBFL_send_body_1
76 # shellcheck disable=SC2312
77 if git diff --cached -r | grep ' = .*,\s*$';
78 then
79     notify-send "${LFBFL_send_summary_1}" "${LFBFL_send_body_1}"
80     return 1
81 fi
82 return 0
83 }
84
85
86 check_black_code_formatting(){
87     # attention ça ne marche que sur les fichiers "stagés" avec git add
88     declare -r LFBFL_files_string=$(\
89         git diff --cached --name-only | grep '\.py' \
90     )
91     echo "${LFBFL_files_string}"
92     declare -a LFBFL_some_files
93     mapfile -t LFBFL_some_files <<< "${LFBFL_files_string}"
94     readonly LFBFL_some_files
95     declare -i LFBFL_error=0
96     # Not very useful since LFBFL_file should be local to the loop by
97     # default.
98     local LFBFL_file
99     for LFBFL_file in "${LFBFL_some_files[@]}"; do
100         echo "Black will check formatting on file ${LFBFL_file}"
101         if ! black --check --diff "${LFBFL_file}";
102         then
103             LFBFL_error=1
104         fi
105     done
106     # shellcheck disable=SC2248,SC2250
107     return $LFBFL_error
108 }

```

## 2.54 git\_helpers/post-commit

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:

```

```

5  # you can redistribute it and/or modify it under the terms
6  # of the GNU General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24 # 2024-05-31T01:49+02:00: This file was renamed from
25 # "post-commit"
26 # to
27 # "post-commit".
28 # 2024-05-31T01:49+02:00: This file was moved from
29 # "."
30 # to
31 # "./git_helpers".
32
33 LFBFL_library="../DevOrSysAdminScripts/git_helpers/"
34 LFBFL_library+="post_commit_renaming_comment.libr.sh"
35 # shellcheck disable=SC1090
36 source "${LFBFL_library}"
37
38 commit_a_file_renamed_comment --verbose --log-directory-change
39 exit 0

```

## 2.55 git\_helpers/post\_commit\_renaming\_comment.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,

```

```

9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # 2024-05-31T01:49+02:00: This file was renamed from
25 # "post_commit_renaming_comment.libr.sh"
26 # to
27 # "post_commit_renaming_comment.libr.sh".
28 # 2024-05-31T01:49+02:00: This file was moved from
29 # "."
30 # to
31 # "./git_helpers".
32 # This file was renamed from "post_commit_renaming_comment"
33 # to "post_commit_renaming_comment.libr.sh".
34 # (Before first commit it seems. But I had the old name in listing.)
35
36 LFBFL_this_file_path=$(realpath "${BASH_SOURCE[0]}")
37 LFBFL_this_file_directory=$(dirname "${LFBFL_this_file_path}")
38 LFBFL_some_directory="${LFBFL_this_file_directory}/../"
39 pushd .
40 # shellcheck disable=SC2164
41 cd "${LFBFL_some_directory}"
42 # shellcheck disable=SC1091
43 source "build_and_checks_dependencies/strings_functions.libr.sh"
44 # shellcheck disable=SC2164
45 popd
46
47 # Never forget that the worse security is the illusion of security
48 # (Kevin Mitnick). So, do not expect to have an accurate trackability
49 # of code history just because you use this post-commit hook or
50 # something else more evolved. This is useful but not a guarantee.
51 # For this reason, this function will only handle when all files
52 # impacted in the preceding commit are only renamed.
53 # It assumes that 'diff' is the current default difference utility
54 # parametered with 'git'. This point could be enhanced.

```

```

55  commit_a_file_renamed_comment() {
56      declare -i LFBFL_verbose=0
57      if [[ "$1" == "--verbose" ]]; then
58          echo "$0 commit_a_file_renamed_comment $*"
59          LFBFL_verbose=1
60      fi
61      readonly LFBFL_verbose
62
63      declare -i LFBFL_log_directory_change=0
64      if [[ "$2" == "--log-directory-change" ]]; then
65          LFBFL_log_directory_change=1
66      fi
67      readonly LFBFL_log_directory_change
68
69      declare -i LFBFL_max_comment_line_length=70
70      if [[ -n "$3" ]]; then
71          LFBFL_max_comment_line_length="$3"
72      fi
73      readonly LFBFL_max_comment_line_length
74      # shellcheck disable=SC2250
75      if [[ $LFBFL_verbose -eq 1 ]]; then
76          echo "LFBFL_log_directory_change: ${LFBFL_log_directory_change}"
77          echo \
78              "LFBFL_max_comment_line_length: ${LFBFL_max_comment_line_length}"
79      fi
80      #-----
81
82      # shellcheck disable=SC2155
83      declare -r LFBFL_renaming_lines=$(
84          git log -p -1 | grep 'diff --git' -A 1
85      )
86      # shellcheck disable=SC2250
87      if [[ $LFBFL_verbose -eq 1 ]]; then
88          echo "LFBFL_renaming_lines: ${LFBFL_renaming_lines}"
89      fi
90
91      declare -a LFBFL_renaming_lines_array
92      mapfile -t LFBFL_renaming_lines_array <<< "${LFBFL_renaming_lines}"
93      readonly LFBFL_renaming_lines_array
94
95      # shellcheck disable=SC2155
96      declare -r LFBFL_timestamp=$(date --iso-8601="minute")
97      # shellcheck disable=SC2250
98      if [[ $LFBFL_verbose -eq 1 ]]; then
99          echo "LFBFL_timestamp: ${LFBFL_timestamp}"
100     fi

```

```

101 get_split_score_simple 1 "${LFBFL_max_comment_line_length}" _  

102 # shellcheck disable=SC2154  

103 LFBFL_split_score_command1="${get_split_score_result}"  

104 # shellcheck disable=SC2154  

105 LFBFL_split_score_command_properties1="${get_split_score_result2}"  

106 get_split_score_simple 1 "${LFBFL_max_comment_line_length}" /  

107 # shellcheck disable=SC2154  

108 LFBFL_split_score_command2="${get_split_score_result}"  

109 # shellcheck disable=SC2154  

110 LFBFL_split_score_command_properties2="${get_split_score_result2}"  

111 declare -i LFBFL_renaming_happened=0  

112 declare -i LFBFL_i  

113 # declare -r LFBFL_special_file_name="files_names_listing.txt"  

114 declare -r LFBFL_sfn="files_names_listing.txt"  

115 for ((LFBFL_i=0; LFBFL_i<${#LFBFL_renaming_lines_array[@]};)); do  

116     # shellcheck disable=SC2250  

117     local LFBFL_diff_line="${LFBFL_renaming_lines_array[$LFBFL_i]}"  

118     LFBFL_i=$((LFBFL_i + 1))  

119     # shellcheck disable=SC2250  

120     local\  

121         LFBFL_similarity_line="${LFBFL_renaming_lines_array[$LFBFL_i]}"  

122     LFBFL_i=$((LFBFL_i + 1))  

123     # We need to increment 3 times since grep adds "--" lines between.  

124     LFBFL_i=$((LFBFL_i + 1))  

125     # shellcheck disable=SC2250  

126     if [[ $LFBFL_verbose -eq 1 ]]; then  

127         echo "LFBFL_diff_line: ${LFBFL_diff_line}"  

128         echo "LFBFL_similarity_line: ${LFBFL_similarity_line}"  

129     fi  

130     if [[ "${LFBFL_similarity_line:17:4}" == "100%" ]]; then  

131         # Extract old file name from diff line. -----  

132         # shellcheck disable=SC2155  

133         local LFBFL_old_file_path=$(  

134             echo "${LFBFL_diff_line}" | cut -d ' ' -f 3  

135         )  

136         # It starts by "a/".  

137         LFBFL_old_file_path=".${LFBFL_old_file_path:1}"  

138         # shellcheck disable=SC2155  

139         local LFBFL_old_file_name=$(basename "${LFBFL_old_file_path}")  

140         # shellcheck disable=SC2155  

141         local LFBFL_old_file_directory=$(  

142             dirname "${LFBFL_old_file_path}"  

143         )  

144         # Extract new file name from diff line. -----  

145         # shellcheck disable=SC2155  

146         local LFBFL_new_file_path=$(

```

```

147     echo "${LFBFL_diff_line}" | cut -d ' ' -f 4
148 )
149 # It starts by "b/".
150 LFBFL_new_file_path=".${LFBFL_new_file_path:1}"
151 # shellcheck disable=SC2155
152 local LFBFL_new_file_name=$(basename "${LFBFL_new_file_path}")
153 # shellcheck disable=SC2155
154 local LFBFL_new_file_directory=$((
155     dirname "${LFBFL_new_file_path}"
156 ))
157 # shellcheck disable=SC2250
158 if [[ $LFBFL_verbose -eq 1 ]]; then
159     echo "LFBFL_old_file_path: ${LFBFL_old_file_path}"
160     echo "LFBFL_old_file_name: ${LFBFL_old_file_name}"
161     echo "LFBFL_old_file_directory: ${LFBFL_old_file_directory}"
162     echo "LFBFL_new_file_path: ${LFBFL_new_file_path}"
163     echo "LFBFL_new_file_name: ${LFBFL_new_file_name}"
164     echo "LFBFL_new_file_directory: ${LFBFL_new_file_directory}"
165 fi
166 # Extract "LFBFL_extension" with smart guessing for .tpl -----
167 # and set prefix for line with ©Copyright. -----
168 local LFBFL_useful_file_name="${LFBFL_new_file_name}"
169 local LFBFL_extension="${LFBFL_useful_file_name##*.}"
170 # shellcheck disable=SC2250
171 if [[ $LFBFL_verbose -eq 1 ]]; then
172     echo "LFBFL_useful_file_name: ${LFBFL_useful_file_name}"
173     echo "LFBFL_extension: ${LFBFL_extension}"
174 fi
175 declare -i LFBFL_j
176 for ((LFBFL_j=0; LFBFL_j<3; ++LFBFL_j)); do
177     if [[ "${LFBFL_extension}" != "tpl" ]]; then
178         break
179     fi
180     LFBFL_useful_file_name="${LFBFL_useful_file_name:0:-4}"
181     LFBFL_extension="${LFBFL_useful_file_name##*.}"
182     # shellcheck disable=SC2250
183     if [[ $LFBFL_verbose -eq 1 ]]; then
184         echo "LFBFL_useful_file_name: ${LFBFL_useful_file_name}"
185         echo "LFBFL_extension: ${LFBFL_extension}"
186     fi
187 done
188 local LFBFL_comment_prefix=""
189 if [[ "${LFBFL_extension}" == "sh" ]]; then
190     LFBFL_comment_prefix="# "
191 fi
192 if [[ "${LFBFL_extension}" == "sql" ]]; then

```

```

193         LFBFL_comment_prefix="-- "
194     fi
195     if [[ "${LFBFL_extension}" == "tex" ]]; then
196         LFBFL_comment_prefix="% "
197     fi
198     if [[ "${LFBFL_useful_file_name}" == "${LFBFL_sfn}" ]]; then
199         LFBFL_comment_prefix="// "
200     fi
201     # shellcheck disable=SC2250
202     if [[ $LFBFL_verbose -eq 1 ]]; then
203         echo "LFBFL_comment_prefix: ${LFBFL_comment_prefix}"
204     fi
205     #-----
206     # Split if necessary old_file_name, new_file_name, etc. to have
207     # comment lines below max_comment_line_length.
208     local LFBFL_comment_prefix2="${LFBFL_comment_prefix}''"
209     # -----
210     local LFBFL_old_file_name2="${LFBFL_comment_prefix2}"
211     LFBFL_old_file_name2+="${LFBFL_old_file_name}"
212     repeated_split_last_line "${LFBFL_old_file_name2}" \
213         "${LFBFL_comment_prefix2}" "${LFBFL_max_comment_line_length}" \
214         '/ '' "${LFBFL_split_score_command1}" \
215         "${LFBFL_split_score_command_properties1}"
216     # shellcheck disable=SC2154
217     LFBFL_old_file_name2="${repeated_split_last_line_result}"
218     # -----
219     local LFBFL_old_file_directory2="${LFBFL_comment_prefix2}"
220     LFBFL_old_file_directory2+="${LFBFL_old_file_directory}"
221     repeated_split_last_line "${LFBFL_old_file_directory2}" \
222         "${LFBFL_comment_prefix2}" "${LFBFL_max_comment_line_length}" \
223         '/ '' "${LFBFL_split_score_command2}" \
224         "${LFBFL_split_score_command_properties2}"
225     # shellcheck disable=SC2154
226     LFBFL_old_file_directory2="${repeated_split_last_line_result}"
227     # -----
228     local LFBFL_new_file_name2="${LFBFL_comment_prefix2}"
229     LFBFL_new_file_name2+="${LFBFL_new_file_name}"
230     repeated_split_last_line "${LFBFL_new_file_name2}" \
231         "${LFBFL_comment_prefix2}" "${LFBFL_max_comment_line_length}" \
232         '/ '' "${LFBFL_split_score_command1}" \
233         "${LFBFL_split_score_command_properties1}"
234     # shellcheck disable=SC2154
235     LFBFL_new_file_name2="${repeated_split_last_line_result}"
236     # -----
237     local LFBFL_new_file_directory2="${LFBFL_comment_prefix2}"
238     LFBFL_new_file_directory2+="${LFBFL_new_file_directory}"

```

```

239     repeated_split_last_line "${LFBFL_new_file_directory2}" \
240     "${LFBFL_comment_prefix2}" "${LFBFL_max_comment_line_length}" \
241     '' "${LFBFL_split_score_command2}" \
242     "${LFBFL_split_score_command_properties2}"
243     # shellcheck disable=SC2154
244     LFBFL_new_file_directory2="${repeated_split_last_line_result}"
245     # Create new comments strings. -----
246     local LFBFL_new_comment=""
247     if [[ "${LFBFL_new_file_name2}" != "${LFBFL_old_file_name2}" ]];
248     then
249         LFBFL_new_comment="${LFBFL_comment_prefix}"
250         LFBFL_new_comment+="${LFBFL_timestamp}"
251         LFBFL_new_comment+=": This file was renamed from\n"
252         LFBFL_new_comment+="${LFBFL_old_file_name2}"'\n'
253         LFBFL_new_comment+=" ${LFBFL_comment_prefix}to\n"
254         LFBFL_new_comment+="${LFBFL_new_file_name2}"'.'
255     fi
256     # shellcheck disable=SC2250
257     if [[ $LFBFL_log_directory_change -eq 1 ]] && [[ \
258         "${LFBFL_new_file_directory}" \
259         != "${LFBFL_old_file_directory}" \
260     ]]; then
261         LFBFL_new_comment+="\n${LFBFL_comment_prefix}"
262         LFBFL_new_comment+="${LFBFL_timestamp}"
263         LFBFL_new_comment+=": This file was moved from\n"
264         LFBFL_new_comment+="${LFBFL_old_file_directory2}"'\n'
265         LFBFL_new_comment+=" ${LFBFL_comment_prefix}to\n"
266         LFBFL_new_comment+="${LFBFL_new_file_directory2}"'.'
267     fi
268     # shellcheck disable=SC2250
269     if [[ $LFBFL_verbose -eq 1 ]]; then
270         echo "LFBFL_new_comment: ${LFBFL_new_comment}"
271     fi
272     # Find line with ©Copyright. -----
273     # shellcheck disable=SC2155
274     declare -i LFBFL_copyright_line_number=$(((
275         grep -n '©Copyright' "${LFBFL_new_file_path}" \
276         | head --lines=1 \
277         | cut -d ':' -f 1
278     ))
279     # shellcheck disable=SC2250
280     if [[ $LFBFL_verbose -eq 1 ]]; then
281         echo "LFBFL_copyright_line_number:" \
282             "${LFBFL_copyright_line_number}"
283     fi
284     if [[ ${LFBFL_copyright_line_number} -eq 0 ]]; then

```

```

285     local LFBFL_send_summary_2="ATTENTION: No line with copyright"
286     notify-send "${LFBFL_send_summary_2}" \
287         "${LFBFL_send_summary_2} for: ${LFBFL_new_comment}" \
288         # shellcheck disable=SC2250
289         if [[ $LFBFL_verbose -eq 1 ]]; then
290             echo "No copyright line. Skipping file."
291         fi
292         continue
293     fi
294     # Get total number of lines. -----
295     # shellcheck disable=SC2002,SC2155
296     declare -i LFBFL_line_count=$(
297         cat "${LFBFL_new_file_path}" | wc -l
298     )
299     # shellcheck disable=SC2250
300     if [[ $LFBFL_verbose -eq 1 ]]; then
301         echo "LFBFL_line_count: ${LFBFL_line_count}"
302     fi
303     # Compute number of lines after. -----
304     # shellcheck disable=SC2155
305     declare -i LFBFL_lines_after=$(((
306         LFBFL_line_count - LFBFL_copyright_line_number
307     )))
308     # shellcheck disable=SC2250
309     if [[ $LFBFL_verbose -eq 1 ]]; then
310         echo "LFBFL_lines_after: ${LFBFL_lines_after}"
311     fi
312     # Update file. -----
313     local LFBFL_temp_file_path="${LFBFL_new_file_path}.LFBFL.temp"
314     head --lines="${LFBFL_copyright_line_number}" \
315         "${LFBFL_new_file_path}" > "${LFBFL_temp_file_path}"
316     echo -e "${LFBFL_new_comment}" >> "${LFBFL_temp_file_path}"
317     tail --lines="${LFBFL_lines_after}" \
318         "${LFBFL_new_file_path}" >> "${LFBFL_temp_file_path}"
319     mv "${LFBFL_temp_file_path}" "${LFBFL_new_file_path}"
320     # Add file to stage. -----
321     git add "${LFBFL_new_file_path}"
322     LFBFL_renaming_happened=1
323     fi
324 done
325 readonly LFBFL_renaming_happened
326 if [[ LFBFL_renaming_happened -eq 1 ]]; then
327     # Commit -----
328     local LFBFL_message="commit_a_file_renamed_comment()"
329     LFBFL_message+=" post-commit hook, ${LFBFL_timestamp}."
330     readonly LFBFL_message

```

```
331     git commit --message="${LFBFL_message}"  
332 fi  
333 }
```

## 2.56 git\_helpers/pre-commit

```
1 #!/usr/bin/env bash  
2 # This file is part of DevOrSysAdminScripts library.  
3 #  
4 # DevOrSysAdminScripts is free software:  
5 # you can redistribute it and/or modify it under the terms  
6 # of the GNU General Public License  
7 # as published by the Free Software Foundation,  
8 # either version 3 of the License,  
9 # or (at your option) any later version.  
10 #  
11 # DevOrSysAdminScripts is distributed in the hope  
12 # that it will be useful,  
13 # but WITHOUT ANY WARRANTY;  
14 # without even the implied warranty of  
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
16 # See the GNU General Public License for more details.  
17 #  
18 # You should have received a copy of  
19 # the GNU General Public License  
20 # along with DevOrSysAdminScripts.  
21 # If not, see <https://www.gnu.org/licenses/>.  
22 #  
23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet  
24 # 2024-05-31T01:57+02:00: This file was renamed from  
25 # "pre-commit"  
26 # to  
27 # "pre-commit".  
28 # 2024-05-31T01:57+02:00: This file was moved from  
29 # "."  
30 # to  
31 # "./git_helpers".  
32 # shellcheck disable=SC1091  
33 . ./git_checks.sh  
34  
35 declare -ig LFBFL_git_hook_error=0  
36 if ! check_files; then  
37     LFBFL_git_hook_error=1  
38 fi  
39 if ! check_no_abusive_trailing_comma; then
```

```

41     LFBFL_git_hook_error=1
42 fi
43 if ! check_black_code_formatting; then
44     LFBFL_git_hook_error=1
45 fi
46 readonly LFBFL_git_hook_error
47 # shellcheck disable=SC2250
48 if [[ $LFBFL_git_hook_error -eq 1 ]]; then
49     exit 1
50 fi
51 exit 0

```

## 2.57 LiensUtiles.txt

```

1 https://support.google.com/a/answer/9476255?hl=fr#zippy=%2C%C3%A9tape\
2 -configurez-le-service-de-migration-de-donn%C3%A9es
3 -----
4 https://stackoverflow.com/a/78413334/5796086
5 https://stackoverflow.com/questions/21612980/\
6 why-is/usr-bin-env-bash-superior-to-bin-bash/78413334
7 https://web.archive.org/web/20240501105801/https://stackoverflow.com\
8 /questions/21612980/why-is/usr-bin-env-bash-superior-to-bin-bash/\
9 78413334#78413334
10 -----
11 https://news.ycombinator.com/item?id=22214690
12 https://github.com/koalaman/shellcheck/issues/2005
13 https://opensource.stackexchange.com/questions/6271/\
14 calling-gpld-programs-from-a-shell-script
15 -----

```

## 2.58 README.md.tpl

```

1 # DevOrSysAdminScripts
2
3 [ ! [CodeFactor-badge] ] [CodeFactor-package-page]
4 [ ! [Codacy-badge] ] [Codacy-package-page]
5 ! [GitHub-top-language-badge]
6 ! [GitHub-code-size-in-bytes-badge]
7 [ ! [Security:bandit:badge] ] [Bandit-GitHub.com]
8 [ ! [Code-style:black:badge] ] [Black-GitHub.com]
9 [ ! [Imports:isort:badge] ] [Isort-GitHub.io]
10 [ ! [Typecheck:mypy:badge] ] [Typecheck-mypy-lang.org]
11 [ ! [Linting:pylint:badge] ] [Pylint-GitHub.com]
12
13 |           **Some "small" useful scripts**           |
14 | :-----: |

```

```

15 | **for enhancing development or system-administrators tasks** |
16
17 Currently, the biggest part of this repository is in
18 a suite of shell scripts about build and checks that
19 I use in some of my other repositories.
20
21 I tried to follow some conventions for my bash code:
22
23 - I tried to encapsulate most of the code in functions.
24 - Unless used as return values, variables in functions are defined
25 as local variables ('local' keyword or 'declare')
26 with prefix "LFBFL_".
27 - When used as return values, variables in functions are defined
28 as global variables ('declare -g') with prefix
29 "@function_name@_result_".
30 - Whenever a variable is no more modified after some point,
31 add the keyword 'readonly' or use 'declare -r'.
32 - Whenever a variable will only contain integer values (or boolean
33 values as 0 or 1), use 'declare -i'.
34 - I named bash files with suffixes ".exec.sh" when the script can
35 be runned
36 (executable, abbreviation stops before a vowel).
37 - I named bash files with suffixes ".libr.sh" when the script contains
38 only functions definitions
39 (library, abbreviation stops before a vowel).
40 - When some ".exec.sh" code is encapsulated into functions,
41 either these functions can be reused and go in some ".libr.sh" file,
42 either they are truly specific to this script and they are kept
43 in ".exec.sh" file.
44
45 But the files "pre-commit" and "post-commit" were not renamed,
46 since it is not possible to give them other names to use them as
47 pre-commit/post-commit hooks in 'git'.
48
49 [CodeFactor-badge]: https://www.codefactor.io/repository/github/\
50 llyaudet/DevOrSysAdminScripts/badge
51
52 [CodeFactor-package-page]: https://www.codefactor.io/repository/\
53 github/llyaudet/DevOrSysAdminScripts
54
55 [Codacy-badge]: https://app.codacy.com/project/badge/Grade/\
56 3dd6ef85e8db4460991d1ebc404b68dd
57
58 [Codacy-package-page]: https://app.codacy.com/gh/LLyaudet/\
59 DevOrSysAdminScripts/dashboard?utm_source=gh&utm_medium=referral\
60 &utm_content=&utm_campaign=Badge_grade

```

```

61
62 [GitHub-top-language-badge]: https://img.shields.io/github/\ 
63 languages/top/llyaudet/DevOrSysAdminScripts
64
65 [GitHub-code-size-in-bytes-badge]: https://img.shields.io/github/\ 
66 languages/code-size/llyaudet/DevOrSysAdminScripts
67
68 [Security:bandit:badge]: https://img.shields.io/badge/\ 
69 security-bandit-yellow.svg
70
71 [Bandit-GitHub.com]: https://github.com/PyCQA/bandit
72
73 [Code-style:black:badge]: https://img.shields.io/badge/\ 
74 code%20style-black-000000.svg
75
76 [Black-GitHub.com]: https://github.com/psf/black
77
78 [Imports:isort:badge]: https://img.shields.io/badge/\ 
79 %20imports-isort-%231674b1?style=flat&labelColor=ef8336
80
81 [Isort-GitHub.io]: https://pycqa.github.io/isort/
82
83 [Typecheck:mypy:badge]: https://www.mypy-lang.org/static/\ 
84 mypy_badge.svg
85
86 [Typecheck-mypy-lang.org]: https://mypy-lang.org/
87
88 [Linting:pylint:badge]: https://img.shields.io/badge/\ 
89 linting-pylint-yellowgreen
90
91 [Pylint-GitHub.com]: https://github.com/pylint-dev/pylint

```

## 2.59 **unicode.libr.php**

```

1 <?php
2 /*
3 This file is part of DevOrSysAdminScripts library.
4
5 DevOrSysAdminScripts is free software:
6 you can redistribute it and/or modify it under the terms
7 of the GNU Lesser General Public License
8 as published by the Free Software Foundation,
9 either version 3 of the License,
10 or (at your option) any later version.
11
12 DevOrSysAdminScripts is distributed in the hope

```

```

13  that it will be useful,
14  but WITHOUT ANY WARRANTY;
15  without even the implied warranty of
16  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
17  See the GNU Lesser General Public License for more details.
18
19  You should have received a copy of
20  the GNU Lesser General Public License
21  along with DevOrSysAdminScripts.
22  If not, see <https://www.gnu.org/licenses/>.
23
24  ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
25  This file was renamed from "unicode.php" to "unicode.libr.php".
26  */
27
28  function decimal_code_point_to_UTF8(
29      $i_code_point_in_decimal_notation
30  ) {
31      // var_dump($i_code_point_in_decimal_notation);
32      // 0xxxxxxx ASCII
33      if ($i_code_point_in_decimal_notation < 128) {
34          return chr($i_code_point_in_decimal_notation);
35      }
36      $i_continuation_base_value = 128;
37      // 110xxxxx 10xxxxxx
38      if ($i_code_point_in_decimal_notation < 256 * (2**3)) {
39          $i_first_byte_base_value = 192;
40          $i_last_byte_significant_bits = (
41              $i_code_point_in_decimal_notation % (2**6)
42          );
43          $i_first_byte_significant_bits = (int) (
44              (
45                  $i_code_point_in_decimal_notation
46                  - $i_last_byte_significant_bits
47              ) / (2**6)
48          );
49          $s_result = chr(
50              $i_first_byte_base_value
51              + $i_first_byte_significant_bits
52          );
53          $s_result .= chr(
54              $i_continuation_base_value
55              + $i_last_byte_significant_bits
56          );
57          return $s_result;
58      }

```

```

59 // 1110xxxx 10xxxxxx 10xxxxxx
60 if($i_code_point_in_decimal_notation < 256 * 256) {
61     $i_first_byte_base_value = 224;
62     $arr_arr_data_per_byte_reverse = [
63         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
64         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
65         ["i_bits" => 4, "i_base_value" => $i_first_byte_base_value],
66     ];
67     $i_rest = $i_code_point_in_decimal_notation;
68     $s_result = "";
69     foreach($arr_arr_data_per_byte_reverse as $arr_data) {
70         // _Pragma unroll
71         // J'aurais pu "roller" les 4 cas des ifs.
72         // Mais pour les perfs, il faudrait tout unroller vu le nombre
73         // d'itérations. Et j'aimerais bien comparer du code unrollé
74         // aux 2 niveaux à la main avec celui unrollé par le compilateur
75         // sur les 2 niveaux. Je préjuge/présuppose qu'il unroll
76         // l'intérieur d'abord (pour ne pas refaire le même boulot)
77         // puis l'extérieur et qu'il oublie de réoptimiser l'intérieur
78         // en fonction de l'extérieur unrollé. Est-ce que j'ai raison ?
79         $i_significant_bits = $i_rest % (2**$arr_data["i_bits"]);
80         $i_rest = (int) (
81             ($i_rest - $i_significant_bits) / (2**$arr_data["i_bits"])
82         );
83         $s_result = ( // .= or =
84             chr($i_significant_bits + $arr_data["i_base_value"])
85             . $s_result
86         );
87     }
88     return $s_result;
89 }
90 // 11110xxx 10xxxxxx 10xxxxxx 10xxxxxx
91 if($i_code_point_in_decimal_notation < 256 * 256 * (2**5)) {
92     $i_first_byte_base_value = 240;
93     $arr_arr_data_per_byte_reverse = [
94         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
95         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
96         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
97         ["i_bits" => 3, "i_base_value" => $i_first_byte_base_value],
98     ];
99     $i_rest = $i_code_point_in_decimal_notation;
100    $s_result = "";
101    foreach($arr_arr_data_per_byte_reverse as $arr_data) {
102        // _Pragma unroll
103        $i_significant_bits = $i_rest % (2**$arr_data["i_bits"]);
104        $i_rest = (int) (

```

```

105     ($i_rest - $i_significant_bits) / (2**$arr_data["i_bits"])
106 );
107 $s_result = ( // .= or =
108     chr($i_significant_bits + $arr_data["i_base_value"])
109     .$s_result
110 );
111 }
112 return $s_result;
113 }
114 throw new Exception(
115     "UTF-8 avec jusqu'à 6 octets a été abandonné il y a longtemps."
116     ." Autre anecdote \"débile\" : MySQL a de base UTF-8 avec jusqu'à "
117     ." 3 octets au lieu de 4 :face-palm:."
118     ." Du coup, ça peut donner quelques \"surprises\"."
119     ." Sinon, y'a aussi ASCII dans MySQL."
120     ." Et comme ça joue sur la mémoire et les performances,"
121     ." pourquoi ils n'ont pas fait ASCII, UTF-8-2, UTF-8-3, UTF-8-4 ?"
122     ." :)"
123 );
124 }
125
126
127
128 function hexa_code_point_to_UTF8(
129     $s_code_point_in_hexadecimal_notation
130 ) {
131     $s_code_point_in_hexadecimal_notation = strtoupper(
132         $s_code_point_in_hexadecimal_notation
133     );
134     $i_code_point_in_decimal_notation = 0;
135     $i_ord_0 = ord('0');
136     $i_ord_A = ord('A');
137     $i_digit_offset = -$i_ord_0;
138     $i_letter_offset = 10 - $i_ord_A;
139     for(
140         $i = 0, $i_max = strlen($s_code_point_in_hexadecimal_notation);
141         $i < $i_max;
142         ++$i
143     ) {
144         $s_hexa_digit = $s_code_point_in_hexadecimal_notation[$i];
145         $i_code_point_in_decimal_notation *= 16;
146         if(ctype_digit($s_hexa_digit)){
147             $i_code_point_in_decimal_notation += (
148                 ord($s_hexa_digit) + $i_digit_offset
149             );
150             continue;

```

```

151     }
152     if(ctype_xdigit($s_hexa_digit)){
153         $i_code_point_in_decimal_notation += (
154             ord($s_hexa_digit) + $i_letter_offset
155         );
156         continue;
157     }
158     throw new Exception("Not an hexadecimal digit.");
159 }
160 return decimal_code_point_to_UTF8(
161     $i_code_point_in_decimal_notation
162 );
163 }
164 /**
165 ?>
166 <?php
167 require_once("./unicode.libr.php");
168 var_dump(hexa_code_point_to_UTF8("002B"));
169 var_dump(hexa_code_point_to_UTF8("00E6"));
170 var_dump(hexa_code_point_to_UTF8("1400"));
171 var_dump(hexa_code_point_to_UTF8("10111"));
172 // https://en.wikibooks.org/wiki/Unicode/Character_reference/2000-2FFF
173 // Some invisible unicode characters that are a problem:
174 // 2000-200F 2028-202F 205F 2060-206F
175 $arr = [
176     '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007',
177     '2008', '2009', '200A', '200B', '200C', '200D', '200E', '200F',
178     '2028', '2029', '202A', '202B', '202C', '202D', '202E', '202F',
179     '205F',
180     '2060', '2061', '2062', '2063', '2064', '2065', '2066', '2067',
181     '2068', '2069', '206A', '206B', '206C', '206D', '206E', '206F',
182 ];
183 $arr_s = [];
184 $arr_s2 = [];
185 $arr_s3 = [];
186 foreach($arr as $s_hexa){
187     $s = hexa_code_point_to_UTF8($s_hexa);
188     $arr_s []= $s;
189     if(strlen($s) === 2){
190         $s2 = '\x'.bin2hex($s[0]).'\x'.bin2hex($s[1]);
191     }
192     if(strlen($s) === 3){
193         $s2 = '\x'.bin2hex($s[0]).'\x'.bin2hex($s[1])
194             .'\'\x'.bin2hex($s[2]);
195     }
196 }

```

```

197     $arr_s2 []= $s2;
198     $s3 = " | sed -e 's/"$s2."/ /g' \\";
199     $arr_s3 []= $s3;
200     echo($s3."\n");
201 }
202 //*/
203

```

## 2.60 upgrade\_build\_and\_checks.exec.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "upgrade_build_and_checks.sh"
25 # to "upgrade_build_and_checks.exec.sh".
26
27 upgrade_build_and_checks() {
28     local LFBFL_verbose=""
29     if [[ "$*" == *--verbose* ]]; then
30         echo "$0 $*"
31         LFBFL_verbose="--verbose"
32     fi
33     local LFBFL_fixed_point_build=""
34     if [[ "$*" == *--fixed_point_build* ]]; then
35         LFBFL_fixed_point_build="--fixed_point_build"
36     fi

```

```

37     readonly LFBFL_verbose
38     (\ \
39         cd build_and_checks_dependencies/\
40         && ./update_common_build_and_checks.exec.sh "${LFBFL_verbose}" \
41     )
42     ./build_and_checks.exec.sh ." "${LFBFL_verbose}" \
43     "${LFBFL_fixed_point_build}"
44 }
45
46 upgrade_build_and_checks "$@"

```

## 2.61 wget\_sha512.libr.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "wget_sha512.sh"
25 # to "wget_sha512.libr.sh".
26
27 wget_sha512() {
28     # $1 file_path
29     # $2 download_URL
30     # $3 correct_sha512
31     # $4 optional --verbose
32     local LFBFL_verbose=""
33     if [[ "$4" == "--verbose" ]]; then

```

```

34     echo "$0 wget_sha512 $*"
35     LFBFL_verbose="--verbose"
36 fi
37 readonly LFBFL_verbose
38 if [[ ! -f "$1" ]];
39 then
40     wget "${LFBFL_verbose}" -O "$1" "$2"
41 fi
42 # shellcheck disable=SC2312
43 declare -r \
44 LFBFL_present_sha512=$(sha512sum "$1" | cut -f1 -d' ')
45 if [[ "${LFBFL_present_sha512}" != "$3" ]];
46 then
47     echo "$1 does not have correct sha512"
48     echo "wanted $3"
49     echo "found ${LFBFL_present_sha512}"
50     exit
51 fi
52 }

```

Merci Dieu ! Merci Père ! Merci Seigneur ! Merci Saint Esprit !