Министерство образования Республики Беларусь
Учреждение образования
БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ
ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ

Факультет компьютерных систем и сетей

Кафедра программного обеспечения информационных технологий

Дисциплина: Операционные системы и системное программирование (ОСиСП)

ОТЧЕТ
по лабораторной работе № 3

Тема работы: Процессы в ОС Linux

Выполнили
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Проверил: Алексеев И.Г.

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1 ЗАДАНИЕ

Вариант 9

Написать программу шифрации всех файлов заданного каталога и его подкаталогов. Пользователь задаёт имя каталога. Главный процесс открывает каталоги и запускает для каждого файла каталога и отдельный процесс шифрации. Каждый процесс выводит на экран свой *pid,* полный путь к файлу, общее число зашифрованных байт. Шифрация по алгоритму сложения по модулю 2 бит исходного файла и файла ключа. Число одновременно работающих процессов не должно превышать *N* (вводится пользователем). Проверить работу программы для каталога */etc*.

2 СКРИНШОТЫ

Первые строки после запуска

```
shevchuk@shevchuk-VirtualBox:~/851003/lab3$ ./main.exe /etc 7 ./results ./key/key.txt > output.txt
31454: main.exe: Permission denied: /etc/security/opasswd
31176: main.exe: Permission denied: /etc/ssl/private
31564: main.exe: Permission denied: /etc/sudoers
```

Последние строки перед завершением

```
32347: main.exe: Permission denied: /etc/cups/subscriptions.conf
32350: main.exe: Permission denied: /etc/cups/subscriptions.conf.O
32562: main.exe: Permission denied: /etc/sudoers.d/README
shevchuk@shevchuk-VirtualBox:~/851003/lab3$
```

3 РЕЗУЛЬТАТЫ РАБОТЫ

395: /etc/wpa_supplicant/action_wpa.sh: 1651
392: /etc/wpa_supplicant/ifupdown.sh: 11130
398: /etc/wpa_supplicant/functions.sh: 61741
400: /etc/apparmor.d/usr.sbin.cupsd: 12660
391: /etc/insserv.conf.d/gdm3: 30
402: /etc/apparmor.d/tunables/global: 1320
411: /etc/apparmor.d/tunables/multiarch: 1167
410: /etc/apparmor.d/tunables/alias: 1160
408: /etc/apparmor.d/tunables/apparmorfs: 570
409: /etc/apparmor.d/tunables/share: 1463
405: /etc/apparmor.d/tunables/home.d/site.local: 1172
404: /etc/apparmor.d/tunables/home.d/ubuntu: 521
412: /etc/apparmor.d/tunables/xdg-user-dirs: 1544
413: /etc/apparmor.d/tunables/proc: 670
415: /etc/apparmor.d/tunables/multiarch.d/site.local: 1205
416: /etc/apparmor.d/tunables/xdg-user-dirs.d/site.local: 1332
418: /etc/apparmor.d/tunables/securityfs: 625
420: /etc/apparmor.d/tunables/sys: 572
421: /etc/apparmor.d/tunables/dovecot: 1444
422: /etc/apparmor.d/tunables/home: 1727
423: /etc/apparmor.d/tunables/kernelvars: 2557
424: /etc/apparmor.d/usr.sbin.cups-browsed: 1034
425: /etc/apparmor.d/abstractions/wutmp: 1111
428: /etc/apparmor.d/abstractions/ubuntu-bittorrent-clients: 1272
432: /etc/apparmor.d/abstractions/dbus-accessibility: 1166
433: /etc/apparmor.d/abstractions/mysql: 1201
437: /etc/apparmor.d/abstractions/apparmor_api/examine: 734
438: /etc/apparmor.d/abstractions/apparmor_api/change_profile: 611
439: /etc/apparmor.d/abstractions/apparmor_api/find_mountpoint: 766
440: /etc/apparmor.d/abstractions/apparmor_api/is_enabled: 1122
441: /etc/apparmor.d/abstractions/apparmor_api/introspect: 733
443: /etc/apparmor.d/abstractions/kde-language-write: 712
442: /etc/apparmor.d/abstractions/qt5: 1372
444: /etc/apparmor.d/abstractions/ubuntu-console-email: 1131
445: /etc/apparmor.d/abstractions/opencl-intel: 1064
446: /etc/apparmor.d/abstractions/user-mail: 1505
447: /etc/apparmor.d/abstractions/qt5-compose-cache-write: 426
448: /etc/apparmor.d/abstractions/fcitx-strict: 1310
449: /etc/apparmor.d/abstractions/private-files: 3015
450: /etc/apparmor.d/abstractions/dbus-strict: 1245
451: /etc/apparmor.d/abstractions/opencl: 415
452: /etc/apparmor.d/abstractions/dbus: 1121
453: /etc/apparmor.d/abstractions/opencl-common: 624
454: /etc/apparmor.d/abstractions/wayland: 1104
455: /etc/apparmor.d/abstractions/ubuntu-unity7-messaging: 300
456: /etc/apparmor.d/abstractions/dbus-session-strict: 1627
457: /etc/apparmor.d/abstractions/ubuntu-media-players: 4272
458: /etc/apparmor.d/abstractions/gnupg: 544
459: /etc/apparmor.d/abstractions/mir: 1121

460: /etc/apparmor.d/abstractions/consoles: 1436
461: /etc/apparmor.d/abstractions/ubuntu-browsers.d/mailto: 504
462: /etc/apparmor.d/abstractions/ubuntu-browsers.d/productivity: 1741
463: /etc/apparmor.d/abstractions/ubuntu-browsers.d/java: 7457
464: /etc/apparmor.d/abstractions/ubuntu-browsers.d/text-editors: 1216
465: /etc/apparmor.d/abstractions/ubuntu-browsers.d/kde: 370
466: /etc/apparmor.d/abstractions/ubuntu-browsers.d/user-files: 1536
467: /etc/apparmor.d/abstractions/ubuntu-browsers.d/firefox: 1176
468: /etc/apparmor.d/abstractions/ubuntu-browsers.d/multimedia: 3506
471: /etc/apparmor.d/abstractions/ubuntu-browsers.d/ubuntu-integration-xul: 250
475: /etc/apparmor.d/abstractions/ubuntu-browsers.d/plugins-common: 516
476: /etc/apparmor.d/abstractions/ubuntu-browsers.d/ubuntu-integration: 2626
477: /etc/apparmor.d/abstractions/ubuntu-unity7-base: 4615
478: /etc/apparmor.d/abstractions/bash: 2750
479: /etc/apparmor.d/abstractions/ssl_certs: 2407
480: /etc/apparmor.d/abstractions/ibus: 1200
481: /etc/apparmor.d/abstractions/opencl-pocl: 5373
482: /etc/apparmor.d/abstractions/ubuntu-unity7-launcher: 277
484: /etc/apparmor.d/abstractions/gnome: 6721
485: /etc/apparmor.d/abstractions/openssl: 726
486: /etc/apparmor.d/abstractions/freedesktop.org: 2413
488: /etc/apparmor.d/abstractions/orbit2: 135
491: /etc/apparmor.d/abstractions/ubuntu-helpers: 6506
492: /etc/apparmor.d/abstractions/mozc: 727
493: /etc/apparmor.d/abstractions/user-write: 1540
494: /etc/apparmor.d/abstractions/ubuntu-console-browsers: 1143
495: /etc/apparmor.d/abstractions/ldapclient: 1362
496: /etc/apparmor.d/abstractions/video: 177
497: /etc/apparmor.d/abstractions/dovecot-common: 1062
498: /etc/apparmor.d/abstractions/kerberosclient: 2117
499: /etc/apparmor.d/abstractions/dbus-session: 1176
500: /etc/apparmor.d/abstractions/apache2-common: 1521
501: /etc/apparmor.d/abstractions/nis: 1014
502: /etc/apparmor.d/abstractions/cups-client: 1312
503: /etc/apparmor.d/abstractions/python: 3002
504: /etc/apparmor.d/abstractions/fcitx: 710
505: /etc/apparmor.d/abstractions/opencl-nvidia: 1421
506: /etc/apparmor.d/abstractions/libpam-systemd: 1223
507: /etc/apparmor.d/abstractions/qt5-settings-write: 616
508: /etc/apparmor.d/abstractions/kde: 5327
509: /etc/apparmor.d/abstractions/kde-globals-write: 452
510: /etc/apparmor.d/abstractions/base: 14156
511: /etc/apparmor.d/abstractions/php5: 151
513: /etc/apparmor.d/abstractions/audio: 3506
514: /etc/apparmor.d/abstractions/samba: 1476
515: /etc/apparmor.d/abstractions/authentication: 3062
516: /etc/apparmor.d/abstractions/postfix-common: 2254
517: /etc/apparmor.d/abstractions/smbpass: 734
519: /etc/apparmor.d/abstractions/dri-common: 662
520: /etc/apparmor.d/abstractions/user-download: 1554
521: /etc/apparmor.d/abstractions/opencl-mesa: 1017
523: /etc/apparmor.d/abstractions/recent-documents-write: 532

524: /etc/apparmor.d/abstractions/ubuntu-feed-readers: 523
525: /etc/apparmor.d/abstractions/user-manpages: 1571
526: /etc/apparmor.d/abstractions/likewise: 751
527: /etc/apparmor.d/abstractions/winbind: 1343
528: /etc/apparmor.d/abstractions/nameservice: 7410
529: /etc/apparmor.d/abstractions/dri-enumerate: 431
530: /etc/apparmor.d/abstractions/user-tmp: 1216
532: /etc/apparmor.d/abstractions/ssl_keys: 1426
533: /etc/apparmor.d/abstractions/perl: 1550
534: /etc/apparmor.d/abstractions/xdg-desktop: 1241
535: /etc/apparmor.d/abstractions/xad: 1563
536: /etc/apparmor.d/abstractions/dbus-accessibility-strict: 1175
537: /etc/apparmor.d/abstractions/ubuntu-xterm: 355
538: /etc/apparmor.d/abstractions/aspell: 464
539: /etc/apparmor.d/abstractions/php: 2021
540: /etc/apparmor.d/abstractions/private-files-strict: 2025
541: /etc/apparmor.d/abstractions/dconf: 366
542: /etc/apparmor.d/abstractions/evince: 10047
543: /etc/apparmor.d/abstractions/mdns: 664
544: /etc/apparmor.d/abstractions/kde-icon-cache-write: 212
545: /etc/apparmor.d/abstractions/ruby: 1612
546: /etc/apparmor.d/abstractions/ubuntu-konsole: 527
547: /etc/apparmor.d/abstractions/p11-kit: 1603
548: /etc/apparmor.d/abstractions/X: 3346
549: /etc/apparmor.d/abstractions/svn-repositories: 3156
550: /etc/apparmor.d/abstractions/ubuntu-gnome-terminal: 266
551: /etc/apparmor.d/abstractions/nvidia: 1211
552: /etc/apparmor.d/abstractions/enchant: 3727
553: /etc/apparmor.d/abstractions/web-data: 1301
554: /etc/apparmor.d/abstractions/vulkan: 767
555: /etc/apparmor.d/abstractions/ubuntu-browsers: 3203
556: /etc/apparmor.d/abstractions/ubuntu-email: 1721
557: /etc/apparmor.d/abstractions/mesa: 633
558: /etc/apparmor.d/abstractions/fonts: 4050
559: /etc/apparmor.d/usr.bin.evince: 25512
560: /etc/apparmor.d/usr.sbin.tcpdump: 2551
561: /etc/apparmor.d/usr.lib.libreoffice.program.senddoc: 2521
562: /etc/apparmor.d/usr.bin.firefox: 20435
563: /etc/apparmor.d/usr.lib.libreoffice.program.soffice.bin: 24747
564: /etc/apparmor.d/usr.lib.snapd.snap-confine.real: 56600
565: /etc/apparmor.d/usr.lib.libreoffice.program.xpdfimport: 2404
566: /etc/apparmor.d/usr.bin.man: 6156
567: /etc/apparmor.d/usr.lib.libreoffice.program.oosplash: 2757
568: /etc/apparmor.d/usr.sbin.ippusbxd: 1203
569: /etc/apparmor.d/nvidia_modprobe: 2124
570: /etc/apparmor.d/usr.sbin.rsyslogd: 3046
571: /etc/apparmor.d/local/usr.sbin.cupsd: 0
572: /etc/apparmor.d/local/usr.sbin.cups-browsed: 0
573: /etc/apparmor.d/local/usr.bin.evince: 0
574: /etc/apparmor.d/local/usr.sbin.tcpdump: 0
575: /etc/apparmor.d/local/usr.lib.libreoffice.program.senddoc: 0
576: /etc/apparmor.d/local/usr.bin.firefox: 172

577: /etc/apparmor.d/local/usr.lib.libreoffice.program.soffice.bin: 0
578: /etc/apparmor.d/local/usr.lib.snapd.snap-confine.real: 0
579: /etc/apparmor.d/local/usr.lib.libreoffice.program.xpdfimport: 0
580: /etc/apparmor.d/local/usr.bin.man: 0
581: /etc/apparmor.d/local/README: 2127
582: /etc/apparmor.d/local/usr.lib.libreoffice.program.oosplash: 0
583: /etc/apparmor.d/local/usr.sbin.ippusbxd: 0
584: /etc/apparmor.d/local/nvidia_modprobe: 0
585: /etc/apparmor.d/local/usr.sbin.rsyslogd: 0
586: /etc/apparmor.d/local/lsb_release: 0
587: /etc/apparmor.d/local/sbin.dhclient: 0
588: /etc/apparmor.d/lsb_release: 2441
590: /etc/apparmor.d/sbin.dhclient: 6217
591: /etc/ubuntu-advantage/uaclient.conf: 335
592: /etc/ca-certificates.conf: 13121
593: /etc/timezone: 16
594: /etc/locale.alias: 5663
595: /etc/libnl-3/pktloc: 2774
596: /etc/libnl-3/classid: 2152
597: /etc/mysql/conf.d/mysql.cnf: 10
598: /etc/mysql/conf.d/mysqldump.cnf: 67
599: /etc/mysql/my.cnf.fallback: 1507
601: /etc/dhcp/dhclient.conf: 3307
602: /etc/dhcp/debug: 2622
604: /etc/dhcp/dhclient-exit-hooks.d/zzz_avahi-autoipd: 2101
605: /etc/dhcp/dhclient-exit-hooks.d/timesyncd: 2135
606: /etc/dhcp/dhclient-exit-hooks.d/rfc3442-classless-routes: 3334
608: /etc/dhcp/dhclient-enter-hooks.d/resolved: 6656
609: /etc/dhcp/dhclient-enter-hooks.d/avahi-autoipd: 2154
610: /etc/shells: 164
612: /etc/terminfo/README: 324
611: /etc/fuse.conf: 430
614: /etc/group-: 2012
615: /etc/login.defs: 24466
617: /etc/speech-dispatcher/clients/emacs.conf: 164
619: /etc/speech-dispatcher/speechd.conf: 30404
620: /etc/speech-dispatcher/modules/espeak-ng.conf: 5104
621: /etc/speech-dispatcher/modules/dtk-generic.conf: 10110
622: /etc/speech-dispatcher/modules/cicero.conf: 3330
623: /etc/speech-dispatcher/modules/mary-generic.conf: 7450
624: /etc/speech-dispatcher/modules/espeak-ng-mbrola-generic.conf: 22370
625: /etc/speech-dispatcher/modules/llia_phon-generic.conf: 6471
626: /etc/speech-dispatcher/modules/espeak-generic.conf: 13313
627: /etc/speech-dispatcher/modules/espeak-mbrola-generic.conf: 17617
628: /etc/speech-dispatcher/modules/swift-generic.conf: 7127
629: /etc/speech-dispatcher/modules/epos-generic.conf: 7456
630: /etc/speech-dispatcher/modules/espeak.conf: 5077
631: /etc/speech-dispatcher/modules/flite.conf: 2144
632: /etc/speech-dispatcher/modules/pico-generic.conf: 7771
633: /etc/speech-dispatcher/modules/ibmtts.conf: 21365
634: /etc/speech-dispatcher/modules/festival.conf: 7423
636: /etc/speech-dispatcher/modules/baratinoo.conf: 4100

637: /etc/speech-dispatcher/modules/ivona.conf: 3140
638: /etc/speech-dispatcher/modules/kali.conf: 2512
639: /etc/subgid-: 0
640: /etc/PackageKit/PackageKit.conf: 1302
641: /etc/PackageKit/Vendor.conf: 3266
642: /etc/appstream.conf: 1401
643: /etc/avahi/avahi-autoipd.action: 5001
644: /etc/avahi/hosts: 2141
645: /etc/avahi/avahi-daemon.conf: 3331
646: /etc/groff/mdoc.local: 2022
647: /etc/groff/man.local: 2030
648: /etc/environment.d/90atk-adaptor.conf: 71
649: /etc/fwupd/daemon.conf: 1261
650: /etc/fwupd/remotes.d/lvfs-testing.conf: 536
651: /etc/fwupd/remotes.d/dell-esrt.conf: 367
652: /etc/fwupd/remotes.d/vendor-directory.conf: 450
653: /etc/fwupd/remotes.d/vendor.conf: 475
654: /etc/fwupd/remotes.d/lvfs.conf: 461
655: /etc/fwupd/uefi.conf: 564
656: /etc/fwupd/redfish.conf: 456
657: /etc/apt/sources.list: 6071
658: /etc/apt/trusted.gpg.d/ubuntu-keyring-2012-cdimage.gpg: 5352
659: /etc/apt/trusted.gpg.d/ubuntu-keyring-2012-archive.gpg: 5354
660: /etc/apt/trusted.gpg.d/ubuntu-keyring-2018-archive.gpg: 3305
661: /etc/apt/apt.conf.d/15update-stamp: 154
662: /etc/apt/apt.conf.d/99update-notifier: 461
663: /etc/apt/apt.conf.d/01autoremove-kernels: 5730
664: /etc/apt/apt.conf.d/20auto-upgrades: 120
665: /etc/apt/apt.conf.d/20dbus: 363
666: /etc/apt/apt.conf.d/70debconf: 266
667: /etc/apt/apt.conf.d/51ubuntu-advantage-esm: 132
669: /etc/apt/apt.conf.d/00aptitude: 61
670: /etc/apt/apt.conf.d/20apt-esm-hook.conf: 411
671: /etc/apt/apt.conf.d/20packagekit: 2020
672: /etc/apt/apt.conf.d/01autoremove: 1772
673: /etc/apt/apt.conf.d/00trustcdrom: 50
674: /etc/apt/apt.conf.d/50command-not-found: 1161
675: /etc/apt/apt.conf.d/50appstream: 5040
676: /etc/apt/apt.conf.d/01-vendor-ubuntu: 52
677: /etc/apt/apt.conf.d/60icons: 663
678: /etc/apt/apt.conf.d/10periodic: 201
679: /etc/apt/apt.conf.d/50unattended-upgrades: 12352
680: /etc/apt/apt.conf.d/20archive: 125
681: /etc/apt/apt.conf.d/20snapd.conf: 162
682: /etc/dbus-1/system.d/org.debian.apt.conf: 662
683: /etc/dbus-1/system.d/org.freedesktop.ModemManager1.conf: 23440
684: /etc/dbus-1/system.d/net.hadess.SensorProxy.conf: 4031
685: /etc/dbus-1/system.d/wpa_supplicant.conf: 2210
686: /etc/dbus-1/system.d/org.freedesktop.Accounts.conf: 1625
687: /etc/dbus-1/system.d/gdm.conf: 7453
688: /etc/dbus-1/system.d/com.redhat.PrinterDriversInstaller.conf: 1770
689: /etc/dbus-1/system.d/org.freedesktop.thermald.conf: 2136

690: /etc/dbus-1/system.d/kerneloops.conf: 1770
691: /etc/dbus-1/system.d/bluetooth.conf: 2660
692: /etc/dbus-1/system.d/net.reactivated.Fprint.conf: 1040
693: /etc/dbus-1/system.d/org.freedesktop.fwupd.conf: 2023
694: /etc/dbus-1/system.d/com.ubuntu.USBCreator.conf: 1376
695: /etc/dbus-1/system.d/org.opensuse.CupsPkHelper.Mechanism.conf: 1041
696: /etc/dbus-1/system.d/org.freedesktop.GeoClue2.conf: 2603
697: /etc/dbus-1/system.d/com.ubuntu.LanguageSelector.conf: 1335
698: /etc/dbus-1/system.d/org.freedesktop.GeoClue2.Agent.conf: 1307
699: /etc/dbus-1/system.d/com.ubuntu.SystemService.conf: 1326
700: /etc/dbus-1/system.d/pulseaudio-system.conf: 2074
701: /etc/dbus-1/system.d/com.ubuntu.SoftwareProperties.conf: 1226
702: /etc/dbus-1/system.d/dnsmasq.conf: 1214
703: /etc/dbus-1/system.d/org.freedesktop.PackageKit.conf: 2463
704: /etc/dbus-1/system.d/net.hadess.SwitcherooControl.conf: 1641
705: /etc/dbus-1/system.d/com.hp.hplip.conf: 1360
706: /etc/dbus-1/system.d/avahi-dbus.conf: 2170
707: /etc/dbus-1/system.d/com.redhat.NewPrinterNotification.conf: 1757
708: /etc/dbus-1/system.d/com.ubuntu.WhoopsiePreferences.conf: 1641
709: /etc/security/access.conf: 10724
711: /etc/security/group.conf: 7063
712: /etc/security/sepermit.conf: 643
713: /etc/security/pwquality.conf: 4711
714: /etc/security/pam_env.conf: 5634
715: /etc/security/capability.conf: 3401
716: /etc/security/namespace.init: 1770
717: /etc/security/time.conf: 4203
718: /etc/security/limits.conf: 4161
719: /etc/security/namespace.conf: 2640
720: /etc/issue.net: 15
721: /etc/hostname: 24
722: /etc/gtk-3.0/settings.ini: 176
723: /etc/gtk-3.0/im-multipress.conf: 1572
724: /etc/geoclue/geoclue.conf: 6463
725: /etc/modules-load.d/cups-filters.conf: 167
726: /etc/default/amd64-microcode: 510
727: /etc/default/acpid: 532
728: /etc/default/im-config: 2207
729: /etc/default/networkd-dispatcher: 230
730: /etc/default/dbus: 451
731: /etc/default/acpi-support: 11472
732: /etc/default/grub: 2271
733: /etc/default/crda: 1045
734: /etc/default/irqbalance: 1643
735: /etc/default/saned: 156
736: /etc/default/console-setup: 435
737: /etc/default/cron: 226
738: /etc/default/kerneloops: 124
739: /etc/default/useradd: 2136
740: /etc/default/apport: 225
741: /etc/default/grub.d/init-select.cfg: 422
742: /etc/default/keyboard: 250

743: /etc/default/openvpn: 2240
744: /etc/default/intel-microcode: 2005
745: /etc/default/ufw: 3374
746: /etc/default/alsa: 1176
747: /etc/default/locale: 435
748: /etc/default/bsdmainutils: 336
749: /etc/default/anacron: 1476
750: /etc/default/rsync: 4016
751: /etc/default/motd-news: 1252
752: /etc/default/rsyslog: 174
753: /etc/default/nss: 3334
754: /etc/default/avahi-daemon: 333
755: /etc/cron.d/popularity-contest: 277
756: /etc/cron.d/e2scrub_all: 311
757: /etc/cron.d/anacron: 435
758: /etc/cron.d/.placeholder: 146
759: /etc/machine-id: 41
760: /etc/profile: 1105
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784: /etc/xdg/autostart/org.gnome.SettingsDaemon.PrintNotifications.desktop: 542
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787: /etc/xdg/autostart/print-applet.desktop: 561
788: /etc/xdg/autostart/tracker-miner-fs.desktop: 1022
789: /etc/xdg/autostart/org.gnome.Evolution-alarm-notify.desktop: 740
790: /etc/xdg/autostart/org.gnome.DejaDup.Monitor.desktop: 463
791: /etc/xdg/autostart/org.gnome.SettingsDaemon.Datetime.desktop: 514
792: /etc/xdg/autostart/gnome-keyring-ssh.desktop: 677
793: /etc/xdg/autostart/org.gnome.SettingsDaemon.Wwan.desktop: 504
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795: /etc/xdg/autostart/spice-vdagent.desktop: 277
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798: /etc/xdg/autostart/gnome-software-service.desktop: 322
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803: /etc/xdg/autostart/org.gnome.SettingsDaemon.Sharing.desktop: 512
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879: /etc/ghostscript/cidfmap.d/90gs-cjk-resource-cns1.conf: 733
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1142: /etc/cron.daily/.placeholder: 146
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1369: /etc/brltty/Input/hm/letters.kti: 4507
1370: /etc/brltty/Input/hm/f18.kti: 2200
1371: /etc/brltty/Input/hm/f14.kti: 2177
1372: /etc/brltty/Input/hm/left.kti: 2201
1373: /etc/brltty/Input/hm/contexts.kti: 2242
1374: /etc/brltty/Input/hm/edge.ktb: 2214
1375: /etc/brltty/Input/hm/sync.ktb: 1614
1376: /etc/brltty/Input/hm/pan.ktb: 1603
1377: /etc/brltty/Input/hm/scroll.kti: 4114
1378: /etc/brltty/Input/hm/right.kti: 2222
1379: /etc/brltty/Input/hm/pan.kti: 2211
1380: /etc/brltty/Input/ht/bs40.ktb: 1475
1384: /etc/brltty/Input/ht/dots.kti: 3176
1385: /etc/brltty/Input/ht/mdlr.ktb: 2430
1386: /etc/brltty/Input/ht/bkwm.ktb: 3322
1387: /etc/brltty/Input/ht/cb40.ktb: 1500
1388: /etc/brltty/Input/ht/easy.ktb: 2274
1389: /etc/brltty/Input/ht/bs.kti: 2662
1390: /etc/brltty/Input/ht/as40.ktb: 1534
1391: /etc/brltty/Input/ht/keypad.kti: 5671
1392: /etc/brltty/Input/ht/wave.ktb: 2206

1393: /etc/brltty/Input/ht/bb.ktb: 1542
1394: /etc/brltty/Input/ht/ab40.ktb: 1537
1395: /etc/brltty/Input/ht/me.kti: 2375
1396: /etc/brltty/Input/ht/input.kti: 2176
1397: /etc/brltty/Input/ht/rockers.kti: 5102
1398: /etc/brltty/Input/ht/me64.ktb: 1502
1399: /etc/brltty/Input/ht/bs80.ktb: 1520
1400: /etc/brltty/Input/ht/mc88.ktb: 1523
1401: /etc/brltty/Input/ht/me88.ktb: 1525
1409: /etc/brltty/Input/ht/alo.ktb: 1553
1410: /etc/brltty/Input/ht/brln.ktb: 1467
1411: /etc/brltty/Input/ht/joystick.kti: 1662
1413: /etc/brltty/Input/pg/all.ktb: 4523
1414: /etc/brltty/Input/bl/18.txt: 5250
1415: /etc/brltty/Input/bl/40_m20_m40.txt: 6745
1416: /etc/brltty/Input/vr/all.txt: 102
1417: /etc/brltty/Input/bg/all.ktb: 6312
1418: /etc/brltty/Input/al/sat_basic.kti: 6702
1419: /etc/brltty/Input/al/el.ktb: 1504
1420: /etc/brltty/Input/al/voyager.ktb: 1505
1421: /etc/brltty/Input/al/abt_extra.kti: 1647
1423: /etc/brltty/Input/al/bc680.ktb: 2222
1424: /etc/brltty/Input/al/bc-etouch.kti: 2131
1425: /etc/brltty/Input/al/abt_small.ktb: 1543
1426: /etc/brltty/Input/al/sat_extra.kti: 2042
1427: /etc/brltty/Input/al/bc-thumb.kti: 2167
1428: /etc/brltty/Input/al/abt_large.ktb: 1612
1429: /etc/brltty/Input/al/bc.kti: 6331
1430: /etc/brltty/Input/al/sat_small.ktb: 1530
1431: /etc/brltty/Input/al/bc640.ktb: 2040
1432: /etc/brltty/Input/al/abt_basic.kti: 4715
1433: /etc/brltty/Input/al/bc-smartpad.kti: 5367
1434: /etc/brltty/Input/al/sat_large.ktb: 1577
1435: /etc/brltty/Input/fs/common.kti: 4250
1436: /etc/brltty/Input/fs/focus_basic.ktb: 1525
1437: /etc/brltty/Input/fs/focus_basic.kti: 3532
1438: /etc/brltty/Input/fs/pacmate.ktb: 3207
1439: /etc/brltty/Input/fs/focus_large.ktb: 1562
1440: /etc/brltty/Input/fs/rockers.kti: 1717
1441: /etc/brltty/Input/fs/bumpers.kti: 2150
1442: /etc/brltty/Input/fs/focus_small.ktb: 1535
1443: /etc/brltty/Input/mt/bd1_3s.ktb: 1541
1444: /etc/brltty/Input/mt/bd1_6.kti: 3104
1446: /etc/brltty/Input/mt/status.kti: 1446
1450: /etc/brltty/Input/mt/bd2.ktb: 1440
1451: /etc/brltty/Input/mt/bd1_3.ktb: 1475
1452: /etc/brltty/Input/mt/bd1_3.kti: 3040
1453: /etc/brltty/Input/mt/bd1_6.ktb: 1475
1454: /etc/brltty/Input/mt/bd1_6s.ktb: 1541
1455: /etc/brltty/Input/pm/status20.kti: 3570
1456: /etc/brltty/Input/pm/2d_s.ktb: 1540
1458: /etc/brltty/Input/pm/live.ktb: 1576

1461: /etc/brltty/Input/pm/elb_tr_32.ktb: 1533
1463: /etc/brltty/Input/pm/front13.kti: 7050
1464: /etc/brltty/Input/pm/c_486.ktb: 1533
1465: /etc/brltty/Input/pm/el80_ii.ktb: 1524
1466: /etc/brltty/Input/pm/elb_tr_20.ktb: 1533
1467: /etc/brltty/Input/pm/el40s.ktb: 1522
1468: /etc/brltty/Input/pm/status0.kti: 1530
1469: /etc/brltty/Input/pm/el_2d_40.ktb: 1553
1470: /etc/brltty/Input/pm/bar.kti: 5135
1471: /etc/brltty/Input/pm/elba_20.ktb: 1575
1472: /etc/brltty/Input/pm/el_2d_66.ktb: 1553
1473: /etc/brltty/Input/pm/el80s.ktb: 1522
1474: /etc/brltty/Input/pm/elba_32.ktb: 1575
1475: /etc/brltty/Input/pm/ib_80.ktb: 1535
1476: /etc/brltty/Input/pm/front9.kti: 3317
1477: /etc/brltty/Input/pm/status4.kti: 1772
1478: /etc/brltty/Input/pm/status22.kti: 3752
1479: /etc/brltty/Input/pm/status13.kti: 2746
1480: /etc/brltty/Input/pm/el_80.ktb: 1547
1481: /etc/brltty/Input/pm/el_2d_80.ktb: 1553
1482: /etc/brltty/Input/pm/switches.kti: 11421
1483: /etc/brltty/Input/pm/el80c.ktb: 1552
1484: /etc/brltty/Input/pm/keys.kti: 7116
1485: /etc/brltty/Input/pm/c.ktb: 1534
1486: /etc/brltty/Input/pm/routing.kti: 2073
1487: /etc/brltty/Input/pm/el2d_80s.ktb: 1526
1488: /etc/brltty/Input/pm/2d_l.ktb: 1537
1489: /etc/brltty/Input/pm/el60c.ktb: 1552
1490: /etc/brltty/Input/pm/el_40_p.ktb: 1573
1491: /etc/brltty/Input/pm/status2.kti: 1707
1492: /etc/brltty/Input/pm/el70s.ktb: 1522
1493: /etc/brltty/Input/pm/el66s.ktb: 1522
1494: /etc/brltty/Input/pm/trio.ktb: 1546
1495: /etc/brltty/Input/pm/el40c.ktb: 1552
1496: /etc/brltty/Input/pm/keyboard.kti: 2316
1497: /etc/brltty/Input/ir/pc.ktb: 3107
1498: /etc/brltty/Input/ir/brl.ktb: 6231
1499: /etc/brltty/Input/ir/all.kti: 2616
1500: /etc/brltty/Input/vo/all.ktb: 1454
1501: /etc/brltty/Input/vo/bp.ktb: 1471
1502: /etc/brltty/Input/vo/all.kti: 5156
1503: /etc/brltty/Input/tt/all.txt: 1302
1504: /etc/brltty/Input/hw/B80.ktb: 1524
1505: /etc/brltty/Input/hw/thumb.kti: 3264
1506: /etc/brltty/Input/hw/BI14.ktb: 1552
1507: /etc/brltty/Input/hw/command.kti: 1503
1508: /etc/brltty/Input/hw/braille.kti: 2473
1509: /etc/brltty/Input/hw/touch.ktb: 1526
1510: /etc/brltty/Input/hw/BI32.ktb: 1551
1511: /etc/brltty/Input/hw/BI40.ktb: 1551
1512: /etc/brltty/Input/hw/joystick.kti: 1741
1513: /etc/brltty/Input/bn/all.ktb: 14313

1514: /etc/brltty/Input/bn/input.kti: 1647
1515: /etc/brltty/Input/bm/v40.ktb: 1514
1516: /etc/brltty/Input/bm/sv.ktb: 1537
1517: /etc/brltty/Input/bm/command.kti: 2426
1518: /etc/brltty/Input/bm/inka.ktb: 2243
1519: /etc/brltty/Input/bm/default.ktb: 1537
1520: /etc/brltty/Input/bm/routing7.kti: 2520
1521: /etc/brltty/Input/bm/status.kti: 2401
1522: /etc/brltty/Input/bm/vertical.kti: 1746
1523: /etc/brltty/Input/bm/display7.kti: 4241
1524: /etc/brltty/Input/bm/connect.ktb: 1567
1525: /etc/brltty/Input/bm/ultra.ktb: 1540
1526: /etc/brltty/Input/bm/d6.kti: 5101
1527: /etc/brltty/Input/bm/pronto.ktb: 1535
1528: /etc/brltty/Input/bm/front6.kti: 2240
1529: /etc/brltty/Input/bm/pro.ktb: 1563
1530: /etc/brltty/Input/bm/vk.ktb: 2471
1531: /etc/brltty/Input/bm/routing.kti: 1443
1532: /etc/brltty/Input/bm/wheels.kti: 2402
1533: /etc/brltty/Input/bm/display6.kti: 2017
1534: /etc/brltty/Input/bm/pv.ktb: 1541
1535: /etc/brltty/Input/bm/conny.ktb: 1536
1536: /etc/brltty/Input/bm/orbit.ktb: 2744
1538: /etc/brltty/Input/bm/v80.ktb: 1564
1537: /etc/brltty/Input/bm/rb.ktb: 2337
1539: /etc/brltty/Input/bm/horizontal.kti: 2635
1540: /etc/brltty/Input/bm/b9b11b10.kti: 2510
1541: /etc/brltty/Input/bm/front10.kti: 3467
1542: /etc/brltty/Input/bm/b9b10.kti: 1654
1543: /etc/brltty/Input/bm/dm80p.ktb: 1516
1544: /etc/brltty/Input/bm/keyboard.kti: 6466
1545: /etc/brltty/Input/bm/routing6.kti: 2731
1546: /etc/brltty/Input/lt/all.txt: 1541
1547: /etc/brltty/Input/ec/all.txt: 1537
1548: /etc/brltty/Input/ec/spanish.txt: 1652
1549: /etc/brltty/Input/np/all.ktb: 2235
1550: /etc/brltty/Input/at/all.ktb: 4057
1551: /etc/brltty/Input/lb/all.txt: 77
1552: /etc/brltty/Input/sk/bdp.ktb: 5511
1553: /etc/brltty/Input/sk/ntk.ktb: 10522
1554: /etc/brltty/Input/vd/all.txt: 1351
1555: /etc/brltty/Input/ba/all.txt: 72
1556: /etc/brltty/Input/md/fk.ktb: 1527
1557: /etc/brltty/Input/md/common.kti: 2247
1558: /etc/brltty/Input/md/kbd.ktb: 1527
1559: /etc/brltty/Input/md/default.ktb: 1613
1560: /etc/brltty/Input/md/status.kti: 1470
1561: /etc/brltty/Input/md/fk_s.ktb: 1573
1562: /etc/brltty/Input/md/fkeys.kti: 2360
1563: /etc/brltty/Input/md/keyboard.kti: 1671
1564: /etc/brltty/Input/hd/pfl.ktb: 5023
1565: /etc/brltty/Input/hd/mbl.ktb: 4600

1566: /etc/brltty/Input/mb/all.txt: 3105
1567: /etc/brltty/Input/ts/pb.kti: 5721
1568: /etc/brltty/Input/ts/nav_large.kti: 2652
1569: /etc/brltty/Input/ts/nav20.ktb: 1467
1570: /etc/brltty/Input/ts/nav.kti: 10324
1571: /etc/brltty/Input/ts/pb_small.kti: 2530
1572: /etc/brltty/Input/ts/nav_small.kti: 2622
1573: /etc/brltty/Input/ts/pb65.ktb: 1602
1574: /etc/brltty/Input/ts/routing.kti: 3200
1575: /etc/brltty/Input/ts/pb40.ktb: 1602
1576: /etc/brltty/Input/ts/nav40.ktb: 1467
1577: /etc/brltty/Input/ts/nav80.ktb: 1577
1578: /etc/brltty/Input/ts/pb80.ktb: 1602
1579: /etc/brltty/Input/ts/pb_large.kti: 2045
1580: /etc/brltty/Input/mn/all.txt: 4027
1581: /etc/brltty/Input/bd/all.txt: 456
1582: /etc/brltty/Input/ic/all.ktb: 3410
1583: /etc/brltty/Input/menu.kti: 1751
1584: /etc/brltty/Attributes/left_right.atb: 1761
1585: /etc/brltty/Attributes/upper_lower.atb: 1762
1586: /etc/brltty/Attributes/invleft_right.atb: 1771
1587: /etc/brltty/Text/el.ttb: 7362
1588: /etc/brltty/Text/nl_NL.ttb: 23227
1589: /etc/brltty/Text/pl.ttb: 26363
1590: /etc/brltty/Text/bn.ttb: 1554
1591: /etc/brltty/Text/sv-1989.ttb: 25565
1592: /etc/brltty/Text/pt.ttb: 25550
1593: /etc/brltty/Text/da-1252.ttb: 30473
1594: /etc/brltty/Text/kok.ttb: 1557
1595: /etc/brltty/Text/de-chess.tti: 3162
1596: /etc/brltty/Text/ne.ttb: 1556
1597: /etc/brltty/Text/kannada.tti: 12064
1598: /etc/brltty/Text/ta.ttb: 1550
1599: /etc/brltty/Text/he.ttb: 12001
1600: /etc/brltty/Text/lt.ttb: 17302
1601: /etc/brltty/Text/cs.ttb: 22460
1602: /etc/brltty/Text/num-dot6.tti: 2670
1603: /etc/brltty/Text/sa.ttb: 1560
1604: /etc/brltty/Text/sk.ttb: 12526
1605: /etc/brltty/Text/no.ttb: 1501
1606: /etc/brltty/Text/ltr-dot8.tti: 7313
1607: /etc/brltty/Text/ru.ttb: 5652
1608: /etc/brltty/Text/num-alias.tti: 11753
1609: /etc/brltty/Text/te.ttb: 1552
1610: /etc/brltty/Text/cy.ttb: 12705
1611: /etc/brltty/Text/gu.ttb: 1556
1612: /etc/brltty/Text/bg.ttb: 2502
1613: /etc/brltty/Text/nwc.ttb: 1610
1614: /etc/brltty/Text/gon.ttb: 1600
1615: /etc/brltty/Text/num-french.tti: 2673
1616: /etc/brltty/Text/new.ttb: 1602
1617: /etc/brltty/Text/en_CA.ttb: 15053

1618: /etc/brltty/Text/spaces.tti: 2555
1619: /etc/brltty/Text/en-na-ascii.tti: 5236
1620: /etc/brltty/Text/eo.ttb: 4444
1621: /etc/brltty/Text/gd.ttb: 6526
1622: /etc/brltty/Text/mi.ttb: 2327
1623: /etc/brltty/Text/hy.ttb: 13752
1624: /etc/brltty/Text/fr-cbifs.ttb: 25676
1625: /etc/brltty/Text/fr.ttb: 1477
1626: /etc/brltty/Text/punc-alternate.tti: 4446
1627: /etc/brltty/Text/nl_BE.ttb: 24251
1628: /etc/brltty/Text/ga.ttb: 4102
1629: /etc/brltty/Text/hr.ttb: 26536
1630: /etc/brltty/Text/num-nemeth.tti: 2737
1631: /etc/brltty/Text/no-generic.ttb: 26113
1632: /etc/brltty/Text/hu.ttb: 10556
1633: /etc/brltty/Text/fr_FR.ttb: 25772
1634: /etc/brltty/Text/en-chess.tti: 3163
1635: /etc/brltty/Text/common.tti: 2162
1636: /etc/brltty/Text/gujarati.tti: 12231
1637: /etc/brltty/Text/greek.tti: 54700
1638: /etc/brltty/Text/bo.ttb: 1671
1639: /etc/brltty/Text/mwr.ttb: 1557
1640: /etc/brltty/Text/en_US.ttb: 25571
1641: /etc/brltty/Text/da-lt.ttb: 26111
1642: /etc/brltty/Text/bengali.tti: 11363
1643: /etc/brltty/Text/tr.ttb: 5446
1644: /etc/brltty/Text/sv-1996.ttb: 21665
1645: /etc/brltty/Text/num-nemd8.tti: 2774
1646: /etc/brltty/Text/sw.ttb: 2331
1647: /etc/brltty/Text/fr-2007.ttb: 30257
1648: /etc/brltty/Text/pa.ttb: 1555
1649: /etc/brltty/Text/mr.ttb: 1557
1650: /etc/brltty/Text/hi.ttb: 1555
1651: /etc/brltty/Text/de.ttb: 26702
1652: /etc/brltty/Text/fr-vs.ttb: 31256
1653: /etc/brltty/Text/mg.ttb: 2332
1654: /etc/brltty/Text/telugu.tti: 11756
1655: /etc/brltty/Text/bh.ttb: 1556
1656: /etc/brltty/Text/da.ttb: 26100
1657: /etc/brltty/Text/ro.ttb: 4220
1658: /etc/brltty/Text/malayalam.tti: 12304
1659: /etc/brltty/Text/sd.ttb: 1556
1660: /etc/brltty/Text/fi.ttb: 22251
1661: /etc/brltty/Text/sv.ttb: 1500
1662: /etc/brltty/Text/bra.ttb: 1554
1663: /etc/brltty/Text/en_GB.ttb: 26300
1664: /etc/brltty/Text/it.ttb: 25615
1665: /etc/brltty/Text/punc-tibetan.tti: 2056
1666: /etc/brltty/Text/et.ttb: 3716
1667: /etc/brltty/Text/en-nabcc.ttb: 50363
1668: /etc/brltty/Text/lv.ttb: 32476
1669: /etc/brltty/Text/or.ttb: 1550

1670: /etc/brltty/Text/tamil.tti: 10376
1671: /etc/brltty/Text/kha.ttb: 1552
1672: /etc/brltty/Text/dra.ttb: 1554
1673: /etc/brltty/Text/blocks.tti: 2213
1674: /etc/brltty/Text/boxes.tti: 26422
1675: /etc/brltty/Text/num-dot8.tti: 2717
1676: /etc/brltty/Text/pi.ttb: 1554
1677: /etc/brltty/Text/vi.ttb: 33041
1678: /etc/brltty/Text/ar.ttb: 22125
1679: /etc/brltty/Text/nl.ttb: 1474
1680: /etc/brltty/Text/kn.ttb: 1554
1681: /etc/brltty/Text/es.ttb: 30517
1682: /etc/brltty/Text/mt.ttb: 4206
1683: /etc/brltty/Text/mni.ttb: 1555
1684: /etc/brltty/Text/awa.ttb: 1556
1685: /etc/brltty/Text/ascii-basic.tti: 1754
1686: /etc/brltty/Text/kru.ttb: 1556
1687: /etc/brltty/Text/as.ttb: 1555
1688: /etc/brltty/Text/no-oup.ttb: 26035
1689: /etc/brltty/Text/ltr-tibetan.tti: 11355
1690: /etc/brltty/Text/is.ttb: 22250
1691: /etc/brltty/Text/en.ttb: 1501
1692: /etc/brltty/Text/mun.ttb: 1552
1693: /etc/brltty/Text/ltr-cyrillic.tti: 13425
1694: /etc/brltty/Text/ml.ttb: 1560
1695: /etc/brltty/Text/ltr-latin.tti: 7220
1696: /etc/brltty/Text/ctl-latin.tti: 4231
1697: /etc/brltty/Text/punc-basic.tti: 2622
1698: /etc/brltty/Text/fr_CA.ttb: 25403
1699: /etc/brltty/Text/gurmukhi.tti: 11462
1700: /etc/brltty/Text/sl.ttb: 23127
1701: /etc/brltty/Text/sat.ttb: 1625
1702: /etc/brltty/Text/oriya.tti: 11324
1703: /etc/brltty/Text/uk.ttb: 5553
1704: /etc/brltty/Text/ltr-alias.tti: 162552
1705: /etc/brltty/Text/devanagari.tti: 13412
1706: /etc/brltty/Text/brf.ttb: 5432
1707: /etc/apg.conf: 661
1708: /etc/grub.d/05_debian_theme: 14162
1709: /etc/grub.d/10_linux_zfs: 111355
1710: /etc/grub.d/30_uefi-firmware: 2612
1711: /etc/grub.d/10_linux: 41343
1712: /etc/grub.d/20_linux_xen: 31136
1713: /etc/grub.d/30_os-prober: 27433
1714: /etc/grub.d/README: 743
1715: /etc/grub.d/20_memtest86+: 3710
1716: /etc/grub.d/40_custom: 326
1717: /etc/grub.d/00_header: 24603
1718: /etc/grub.d/41_custom: 330
1719: /etc/hp/hplip.conf: 1715
1720: /etc/snmp/snmp.conf: 323
1721: /etc/issue: 24

1722: /etc/openvpn/update-resolv-conf: 2674
1723: /etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf: 101
1724: /etc/polkit-1/localauthority.conf.d/50-localauthority.conf: 413
1725: /etc/hostid: 4
1726: /etc/rygel.conf: 12133
1727: /etc/passwd-: 5104
1728: /etc/X11/app-defaults/XClipboard: 7766
1729: /etc/X11/app-defaults/Editres-color: 5277
1730: /etc/X11/app-defaults/Bitmap-nocase: 14670
1731: /etc/X11/app-defaults/XFontSel: 11246
1732: /etc/X11/app-defaults/Viewres: 6160
1733: /etc/X11/app-defaults/XClock-color: 365
1734: /etc/X11/app-defaults/Xmessage-color: 1630
1735: /etc/X11/app-defaults/Clock-color: 163
1736: /etc/X11/app-defaults/Xfd: 1362
1737: /etc/X11/app-defaults/XLoad: 152
1738: /etc/X11/app-defaults/Bitmap: 14575
1739: /etc/X11/app-defaults/XLogo: 171
1740: /etc/X11/app-defaults/XLogo-color: 327
1741: /etc/X11/app-defaults/XClock: 24
1742: /etc/X11/app-defaults/XConsole: 1147
1743: /etc/X11/app-defaults/Xgc-color: 4461
1744: /etc/X11/app-defaults/XSm: 7437
1745: /etc/X11/app-defaults/Xmag: 1332
1746: /etc/X11/app-defaults/XMore: 2123
1747: /etc/X11/app-defaults/Editres: 23216
1748: /etc/X11/app-defaults/Xmessage: 370
1749: /etc/X11/app-defaults/Xedit: 36511
1750: /etc/X11/app-defaults/XCalc-color: 24125
1751: /etc/X11/app-defaults/Viewres-color: 1715
1752: /etc/X11/app-defaults/Xditview: 6070
1753: /etc/X11/app-defaults/Xgc: 101
1754: /etc/X11/app-defaults/Xedit-color: 12640
1755: /etc/X11/app-defaults/Xditview-chrtr: 2537
1756: /etc/X11/app-defaults/Xvidtune: 14744
1757: /etc/X11/app-defaults/XCalc: 45577
1758: /etc/X11/app-defaults/Xman: 14004
1759: /etc/X11/app-defaults/Bitmap-color: 657
1760: /etc/X11/XvMCConfig: 15
1761: /etc/X11/Xsession.options: 411
1762: /etc/X11/default-display-manager: 17
1763: /etc/X11/Xwrapper.config: 1166
1764: /etc/X11/cursors/redglass.theme: 37
1765: /etc/X11/cursors/core.theme: 33
1766: /etc/X11/cursors/handhelds.theme: 40
1767: /etc/X11/cursors/whiteglass.theme: 41
1768: /etc/X11/xsm/system.xsm: 115
1769: /etc/X11/Xsession: 7222
1770: /etc/X11/Xreset: 1305
1771: /etc/X11/xinit/xinitrc: 244
1772: /etc/X11/xinit/xserverrc: 56
1773: /etc/X11/xinit/xinputrc: 206

1774: /etc/X11/rgb.txt: 41762
1775: /etc/X11/Xresources/x11-common: 477
1776: /etc/X11/Xreset.d/README: 315
1777: /etc/X11/Xsession.d/40x11-common_xsessionrc: 273
1778: /etc/X11/Xsession.d/90atk-adaptor: 777
1779: /etc/X11/Xsession.d/35x11-common_xhost-local: 605
1780: /etc/X11/Xsession.d/90x11-common_ssh-agent: 1165
1781: /etc/X11/Xsession.d/70im-config_launch: 3146
1782: /etc/X11/Xsession.d/50x11-common_determine-startup: 3040
1783: /etc/X11/Xsession.d/95dbus_update-activation-env: 1001
1784: /etc/X11/Xsession.d/99x11-common_start: 246
1785: /etc/X11/Xsession.d/60x11-common_localhost: 222
1786: /etc/X11/Xsession.d/55gnome-session_gnomerc: 1347
1787: /etc/X11/Xsession.d/20x11-common_process-args: 3756
1788: /etc/X11/Xsession.d/90gpg-agent: 1560
1789: /etc/X11/Xsession.d/20dbus_xdg-runtime: 2046
1790: /etc/X11/Xsession.d/60xbrlapi: 107
1791: /etc/X11/Xsession.d/75dbus_dbus-launch: 1360
1792: /etc/X11/Xsession.d/30x11-common_xresources: 1556
1793: /etc/X11/Xsession.d/60x11-common_xdg_path: 1737
1794: /etc/X11/fonts/Type1/xfonts-scalable.scale: 5136
1795: /etc/X11/fonts/misc/xfonts-base.alias: 14176
1796: /etc/profile.d/01-locale-fix.sh: 140
1797: /etc/profile.d/apps-bin-path.sh: 1471
1798: /etc/profile.d/xdg_dirs_desktop_session.sh: 1672
1799: /etc/profile.d/bash_completion.sh: 1240
1800: /etc/profile.d/vte-2.91.sh: 3665
1801: /etc/profile.d/cedilla-portuguese.sh: 1753
1802: /etc/magic.mime: 157
1803: /etc/UPower/UPower.conf: 5424
1804: /etc/popularity-contest.conf: 536
1805: /etc/fstab: 1046
1806: /etc/dictionaries-common/ispell-default: 0
1807: /etc/libreoffice/sofficerc: 635
1808: /etc/libreoffice/psprint.conf: 7712
1809: /etc/libreoffice/soffice.sh: 1443
1816: /etc/ufw/ufw.conf: 470
1817: /etc/ufw/sysctl.conf: 2557
1818: /etc/ufw/applications.d/cups: 230
1821: /etc/ld.so.conf: 42
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1824: /etc/pam.conf: 1050
1825: /etc/legal: 413
1827: /etc/ppp/ip-down.d/0000usepeerdns: 1105
1828: /etc/ppp/peers/provider: 2105
1831: /etc/ppp/ip-up: 3544
1832: /etc/ppp/ip-up.d/0000usepeerdns: 2044
1833: /etc/ppp/options.pptp: 4147
1835: /etc/ppp/ipv6-up: 1632
1836: /etc/ppp/ipv6-down: 1420
1838: /etc/ppp/options: 31631
1839: /etc/ppp/ip-down: 3332

1840: /etc/pki/fwupd/GPG-KEY-Linux-Vendor-Firmware-Service: 1677
1841: /etc/pki/fwupd/GPG-KEY-Hughski-Limited: 3246
1842: /etc/pki/fwupd/GPG-KEY-Linux-Foundation-Firmware: 4171
1843: /etc/pki/fwupd/LVFS-CA.pem: 3217
1844: /etc/pki/fwupd-metadata/GPG-KEY-Linux-Vendor-Firmware-Service: 1677
1845: /etc/pki/fwupd-metadata/LVFS-CA.pem: 3217
1846: /etc/pki/fwupd-metadata/GPG-KEY-Linux-Foundation-Metadata: 4171
1847: /etc/cupshelpers/preferreddrivers.xml: 23627
1848: /etc/perl/Net/libnet.cfg: 1143
1849: /etc/cups/cups-browsed.conf: 66353
1850: /etc/cups/raw.convs: 360
1852: /etc/cups/snmp.conf: 216
1853: /etc/cups/cups-files.conf: 5553
1861: /etc/hosts: 352
1858: /etc/cups/cupsd.conf: 14403
1862: /etc/mailcap.order: 701
1859: /etc/cups/raw.types: 323
1863: /etc/adduser.conf: 5724
1864: /etc/mime.types: 57742
1865: /etc/udev/udev.conf: 431
1866: /etc/udev/rules.d/70-snap.core.rules: 162265
1867: /etc/manpath.config: 12066
1868: /etc/vim/vimrc.tiny: 1226
1869: /etc/vim/vimrc: 4555
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1871: /etc/pulse/daemon.conf: 4476
1872: /etc/pulse/client.conf.d/00-disable-autospawn.conf: 164
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1874: /etc/pulse/default.pa: 12257
1875: /etc/rsyslog.conf: 2546
1876: /etc/locale.gen: 22315
1877: /etc/environment: 140
1878: /etc/subuid: 26
1879: /etc/thunderbird/syspref.js: 243
1880: /etc/gai.conf: 5030
1881: /etc/securetty: 10055
1882: /etc/emacs/site-start.d/50dictionaries-common.el: 3470
1883: /etc/debconf.conf: 5631
1884: /etc/subuid-: 0
1886: /etc/kernel/postrm.d/initramfs-tools: 1516
1885: /etc/kernel/postrm.d/zz-update-grub: 1206
1887: /etc/kernel/postinst.d/apt-auto-removal: 5527
1888: /etc/kernel/postinst.d/zz-update-grub: 1206
1889: /etc/kernel/postinst.d/unattended-upgrades: 554
1890: /etc/kernel/postinst.d/initramfs-tools: 1575
1891: /etc/kernel/preinst.d/intel-microcode: 1021
1892: /etc/libao.conf: 33
1893: /etc/rsyslog.d/20-ufw.conf: 472
1894: /etc/rsyslog.d/50-default.conf: 2144
1895: /etc/dconf/profile/ibus: 34
1896: /etc/dconf/db/ibus: 5543
1897: /etc/dconf/db/ibus.d/00-upstream-settings: 2771

1898: /etc/init.d/acpid: 4335
1899: /etc/init.d/speech-dispatcher: 3650
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1901: /etc/init.d/cups-browsed: 3651
1902: /etc/init.d/console-setup.sh: 2320
1903: /etc/init.d/irqbalance: 5014
1904: /etc/init.d/apparmor: 7234
1905: /etc/init.d/unattended-upgrades: 2557
1906: /etc/init.d/alsa-utils: 12330
1907: /etc/init.d/pppd-dns: 1144
1908: /etc/init.d/keyboard-setup.sh: 2707
1909: /etc/init.d/whoopsie: 745
1910: /etc/init.d/network-manager: 3626
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1915: /etc/init.d/spice-vdagent: 4664
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1917: /etc/init.d/hwclock.sh: 7341
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1921: /etc/init.d/ufw: 4043
1922: /etc/init.d/cups: 5364
1923: /etc/init.d/anacron: 4007
1924: /etc/init.d/udev: 15330
1925: /etc/init.d/uuidd: 2432
1926: /etc/init.d/kmod: 3774
1927: /etc/init.d/rsync: 10501
1928: /etc/init.d/gdm3: 5731
1929: /etc/init.d/bluetooth: 5630
1930: /etc/init.d/x11-common: 5305
1931: /etc/init.d/plymouth: 2526
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1939: /etc/newt/palette.ubuntu: 240
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1951: /etc/gdm3/greeter.dconf-defaults: 2702
1952: /etc/gdm3/Init/Default: 5073
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1954: /etc/gdm3/custom.conf: 1044
1955: /etc/sysctl.d/10-console-messages.conf: 115
1956: /etc/sysctl.d/10-magic-sysrq.conf: 2240
1957: /etc/sysctl.d/10-network-security.conf: 236
1958: /etc/sysctl.d/10-ipv6-privacy.conf: 752
1959: /etc/sysctl.d/10-kernel-hardening.conf: 1326
1960: /etc/sysctl.d/10-zeropage.conf: 772
1961: /etc/sysctl.d/10-link-restrictions.conf: 401
1962: /etc/sysctl.d/10-ptrace.conf: 2414
1963: /etc/sysctl.d/protect-links.conf: 504
1964: /etc/sysctl.d/README.sysctl: 1430
1965: /etc/sysctl.conf: 4457
1966: /etc/dpkg/shlibs.default: 404
1967: /etc/dpkg/dpkg.cfg.d/pkg-config-hook-config: 314
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1971: /etc/dpkg/dpkg.cfg: 676
1972: /etc/bluetooth/input.conf: 1637
1973: /etc/bluetooth/main.conf: 7436
1974: /etc/bluetooth/network.conf: 170
1975: /etc/sensors.d/.placeholder: 0
1976: /etc/systemd/logind.conf: 2022
1977: /etc/systemd/system.conf: 3134
1978: /etc/systemd/networkd.conf: 1021
1979: /etc/systemd/journald.conf: 2022
1980: /etc/systemd/user.conf: 2152
1981: /etc/systemd/system/snap-gnome\x2dcalculator-730.mount: 424
1982: /etc/systemd/system/snap-core18-1705.mount: 371
1983: /etc/systemd/system/snap-core-8935.mount: 363
1984: /etc/systemd/system/snap-gnome\x2dcharacters-495.mount: 424
1985: /etc/systemd/system/snap-gnome\x2dcalculator-704.mount: 424
1986: /etc/systemd/system/snap-clion-112.mount: 363
1987: /etc/systemd/system/snap-gtk\x2dcommon\x2dthemes-1474.mount: 432
1988: /etc/systemd/system/snap-clion-110.mount: 363
1989: /etc/systemd/system/snap-gnome\x2d3\x2d34\x2d1804-27.mount: 416
1990: /etc/systemd/system/snap-gnome\x2dlogs-81.mount: 377
1991: /etc/systemd/system/snap-gnome\x2d3\x2d28\x2d1804-116.mount: 421
1992: /etc/systemd/system/snap-gtk\x2dcommon\x2dthemes-1506.mount: 432
1993: /etc/systemd/system/snap-gnome\x2dlogs-93.mount: 377
1994: /etc/systemd/system/snap-core18-1754.mount: 371
1995: /etc/systemd/system/snap-gnome\x2d3\x2d28\x2d1804-71.mount: 416
1996: /etc/systemd/system/snap-gnome\x2dcharacters-399.mount: 424
1997: /etc/systemd/system/snap-core-9066.mount: 363
1998: /etc/systemd/resolved.conf: 1172
1999: /etc/systemd/sleep.conf: 1426
2000: /etc/systemd/timesyncd.conf: 1134
2001: /etc/initramfs-tools/update-initramfs.conf: 572

2002: /etc/initramfs-tools/modules: 366
2003: /etc/initramfs-tools/initramfs.conf: 3417
2004: /etc/magic: 157
2005: /etc/papersize: 3
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2010: /etc/NetworkManager/dispatcher.d/01-ifupdown: 4365
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2019: /etc/pam.d/cron: 1136
2020: /etc/pam.d/systemd-user: 475
2021: /etc/pam.d/common-session: 2676
2022: /etc/pam.d/passwd: 134
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2026: /etc/pam.d/common-auth: 2341
2027: /etc/pam.d/chpasswd: 134
2028: /etc/pam.d/ppp: 250
2029: /etc/pam.d/login: 11521
2030: /etc/pam.d/cups: 105
2031: /etc/pam.d/sudo: 357
2032: /etc/pam.d/newusers: 134
2033: /etc/pam.d/gdm-password: 2450
2034: /etc/pam.d/gdm-fingerprint: 2476
2035: /etc/pam.d/common-session-noninteractive: 2633
2036: /etc/pam.d/gdm-launch-environment: 577
2037: /etc/pam.d/other: 1010
2038: /etc/pam.d/su-l: 211
2039: /etc/pam.d/common-account: 2270
2040: /etc/pam.d/su: 4321
2041: /etc/xattr.conf: 1202
2042: /etc/cron.hourly/.placeholder: 146
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2044: /etc/python3.7/sitecustomize.py: 233
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2050: /etc/acpi/ibm-wireless.sh: 1140
2053: /etc/acpi/asus-wireless.sh: 264
2054: /etc/acpi/tosh-wireless.sh: 707
2055: /etc/acpi/events/thinkpad-cmos: 425
2056: /etc/acpi/events/asus-keyboard-backlight-up: 411
2057: /etc/acpi/events/ibm-wireless: 337
2058: /etc/acpi/events/asus-wireless-off: 111

2059: /etc/acpi/events/asus-keyboard-backlight-down: 417
2060: /etc/acpi/events/tosh-wireless: 336
2061: /etc/acpi/events/asus-wireless-on: 110
2062: /etc/acpi/events/lenovo-undock: 103
2063: /etc/acpi/asus-keyboard-backlight.sh: 607
2064: /etc/iproute2/rt_protos.d/README: 220
2065: /etc/iproute2/ematch_map: 121
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2067: /etc/iproute2/nl_protos: 406
2068: /etc/iproute2/rt_tables: 127
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2070: /etc/iproute2/rt_scopes: 134
2071: /etc/iproute2/rt_realms: 160
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2074: /etc/iproute2/rt_dsfield: 513
2075: /etc/iproute2/rt_protos: 311
2077: /etc/fonts/fonts.conf: 5434
2078: /etc/fonts/conf.avail/66-lohit-bengali.conf: 1177
2079: /etc/fonts/conf.avail/67-smc-suruma.conf: 650
2080: /etc/fonts/conf.avail/49-sansserif.conf: 1437
2081: /etc/fonts/conf.avail/11-lcdfilter-default.conf: 1403
2082: /etc/fonts/conf.avail/20-unhint-small-dejavu-lgc-sans.conf: 1540
2083: /etc/fonts/conf.avail/25-unhint-nonlatin.conf: 6641
2084: /etc/fonts/conf.avail/66-lohit-telugu.conf: 703
2085: /etc/fonts/conf.avail/67-smc-karumbi.conf: 644
2086: /etc/fonts/conf.avail/30-droid-noto-mono.conf: 332
2087: /etc/fonts/conf.avail/11-lcdfilter-light.conf: 1375
2088: /etc/fonts/conf.avail/57-dejavu-sans.conf: 3733
2089: /etc/fonts/conf.avail/53-monospace-lcd-filter.conf: 1657
2090: /etc/fonts/conf.avail/20-unhint-small-dejavu-sans.conf: 1530
2091: /etc/fonts/conf.avail/65-droid-sans-fallback.conf: 312
2092: /etc/fonts/conf.avail/65-0-smc-rachana.conf: 660
2093: /etc/fonts/conf.avail/69-language-selector-ja.conf: 1463
2094: /etc/fonts/conf.avail/58-dejavu-lgc-sans.conf: 4017
2095: /etc/fonts/conf.avail/50-user.conf: 1617
2096: /etc/fonts/conf.avail/67-smc-keraleeyam.conf: 660
2097: /etc/fonts/conf.avail/66-lohit-tamil.conf: 1171
2098: /etc/fonts/conf.avail/10-sub-pixel-vbgr.conf: 1366
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2099: /etc/fonts/conf.avail/69-language-selector-zh-sg.conf: 3311
2101: /etc/fonts/conf.avail/20-unhint-small-vera.conf: 3001
2102: /etc/fonts/conf.avail/10-sub-pixel-vrgb.conf: 1366
2103: /etc/fonts/conf.avail/58-dejavu-lgc-serif.conf: 3231
2104: /etc/fonts/conf.avail/10-no-sub-pixel.conf: 1323
2106: /etc/fonts/conf.avail/60-latin.conf: 4024
2105: /etc/fonts/conf.avail/10-hinting-medium.conf: 1270
2107: /etc/fonts/conf.avail/67-smc-anjalioldlipi.conf: 666
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2109: /etc/fonts/conf.avail/65-0-fonts-deva-extra.conf: 11653
2110: /etc/fonts/conf.avail/69-language-selector-zh-hk.conf: 3017
2111: /etc/fonts/conf.avail/10-hinting-slight.conf: 1270
2112: /etc/fonts/conf.avail/67-smc-chilanka.conf: 646

2113: /etc/fonts/conf.avail/66-lohit-gujarati.conf: 1203
2114: /etc/fonts/conf.avail/10-sub-pixel-rgb.conf: 1354
2115: /etc/fonts/conf.avail/66-lohit-gurmukhi.conf: 1200
2116: /etc/fonts/conf.avail/66-lohit-tamil-classical.conf: 1227
2117: /etc/fonts/conf.avail/10-sub-pixel-bgr.conf: 1354
2118: /etc/fonts/conf.avail/58-dejavu-lgc-sans-mono.conf: 3011
2119: /etc/fonts/conf.avail/10-hinting-none.conf: 1264
2120: /etc/fonts/conf.avail/69-unifont.conf: 1517
2121: /etc/fonts/conf.avail/66-lohit-assamese.conf: 1202
2122: /etc/fonts/conf.avail/10-autohint.conf: 1302
2123: /etc/fonts/conf.avail/10-hinting-full.conf: 1264
2124: /etc/fonts/conf.avail/20-unhint-small-dejavu-lgc-serif.conf: 1542
2125: /etc/fonts/conf.avail/65-0-fonts-gujr-extra.conf: 1257
2126: /etc/fonts/conf.avail/51-local.conf: 647
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2128: /etc/fonts/conf.avail/30-cjk-aliases.conf: 37220
2129: /etc/fonts/conf.avail/70-force-bitmaps.conf: 747
2130: /etc/fonts/conf.avail/67-smc-raghumalayalamsans.conf: 731
2132: /etc/fonts/conf.avail/66-lohit-odia.conf: 1167
2131: /etc/fonts/conf.avail/10-scale-bitmap-fonts.conf: 4264
2133: /etc/fonts/conf.avail/59-lohit-devanagari.conf: 750
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2137: /etc/fonts/conf.avail/65-0-fonts-telu-extra.conf: 1254
2138: /etc/fonts/conf.avail/30-metric-aliases.conf: 31732
2139: /etc/fonts/conf.avail/65-0-fonts-gubbi.conf: 1413
2140: /etc/fonts/conf.avail/20-unhint-small-dejavu-serif.conf: 1532
2141: /etc/fonts/conf.avail/67-lohit-malayalam.conf: 1203
2142: /etc/fonts/conf.avail/57-dejavu-serif.conf: 3161
2143: /etc/fonts/conf.avail/65-khmer.conf: 720
2144: /etc/fonts/conf.avail/65-0-fonts-beng-extra.conf: 2050
2145: /etc/fonts/conf.avail/90-synthetic.conf: 3575
2146: /etc/fonts/conf.avail/11-lcdfilter-legacy.conf: 1400
2147: /etc/fonts/conf.avail/65-fonts-persian.conf: 24065
2148: /etc/fonts/conf.avail/65-nonlatin.conf: 17510
2149: /etc/fonts/conf.avail/57-dejavu-sans-mono.conf: 2745
2150: /etc/fonts/conf.avail/65-0-fonts-pagul.conf: 1210
2151: /etc/fonts/conf.avail/69-language-selector-zh-tw.conf: 4110
2152: /etc/fonts/conf.avail/45-generic.conf: 6727
2153: /etc/fonts/conf.avail/10-antialias.conf: 341
2154: /etc/fonts/conf.avail/66-lohit-devanagari.conf: 5546
2155: /etc/fonts/conf.avail/67-smc-uroob.conf: 637
2156: /etc/fonts/conf.avail/66-lohit-kannada.conf: 1174
2157: /etc/fonts/conf.avail/67-fonts-smc-manjari.conf: 671
2158: /etc/fonts/conf.avail/67-smc-dyuthi.conf: 650
2159: /etc/fonts/conf.avail/65-0-fonts-guru-extra.conf: 1261
2160: /etc/fonts/conf.avail/70-yes-bitmaps.conf: 115
2161: /etc/fonts/conf.avail/69-language-selector-zh-cn.conf: 3311
2162: /etc/fonts/conf.avail/20-unhint-small-dejavu-sans-mono.conf: 1542
2163: /etc/fonts/conf.avail/99-language-selector-zh.conf: 3501
2164: /etc/fonts/conf.avail/20-unhint-small-dejavu-lgc-sans-mono.conf: 1552

2165: /etc/fonts/conf.avail/69-language-selector-zh-mo.conf: 3144
2166: /etc/fonts/conf.avail/45-latin.conf: 14710
2167: /etc/fonts/conf.avail/64-language-selector-prefer.conf: 1517
2168: /etc/fonts/conf.avail/40-nonlatin.conf: 12776
2169: /etc/fonts/conf.d/README: 1722
2170: /etc/fonts/conf.d/65-khmer.conf: 654

4 ТЕКСТ ПРОГРАММЫ

```c
/*
 * 9. Написать программу шифрации всех файлов заданного каталога
и его подкаталогов.
 * Пользователь задаёт имя каталога. Главный процесс открывает
каталоги и запускает
 * для каждого файла каталога и отдельный процесс шифрации. Каж-
дый процесс выводит
 * на экран свой pid, полный путь к файлу, общее число зашифро-
ванных байт.
 * Шифрация по алгоритму сложения по модулю 2 бит исходного
файла и файла ключа.
 * Число одновременно работающих процессов не должно превышать N
(вводится пользователем).
 * Проверить работу программы для каталога /etc.
 */

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <errno.h>
#include <libgen.h>
#include <dirent.h>
#include <unistd.h>
#include <sys/stat.h>
#include <sys/types.h>
#include <sys/wait.h>

typedef int valueType;

typedef struct array_node {
    struct array_node *next;
    valueType value;
} dynArrNode;

typedef struct array {
    int size;
    dynArrNode *head;
    dynArrNode *tail;
} dynArray;

typedef unsigned char byte;

typedef struct bytesList {
    unsigned long size;
    byte *elements;
} bytesList;

dynArray *createList() {
    dynArray *arr = malloc(sizeof(dynArray));
    arr->size = 0;
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    arr->head = NULL;
    arr->tail = arr->head;
    return arr;
}

void pushEnd(dynArray *arr, int number) {
    dynArrNode *temp = malloc(sizeof(dynArrNode));
    temp->value = number;
    if (arr->tail != NULL) {
        arr->tail->next = temp;
    }
    else {
        arr->head = temp;
    }
    arr->tail = temp;
    arr->size += 1;
}

valueType popBegin(dynArray *arr) {
    if (arr->size == 0) {
        return -1;
    }
    dynArrNode *temp = arr->head;
    valueType retValue = temp->value;
    arr->size -= 1;
    arr->head = temp->next;
    free(temp);
    if (arr->size == 0) {
        arr->head = NULL;
        arr->tail = NULL;
    }
    return retValue;
}

long getAmOfFileInBytes(char *scriptName, FILE *file, char
*pathFile) {
    int result = fseek(file, 0, SEEK_END);
    if (result == -1) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), pathFile);
        fclose(file);
        exit(EXIT_FAILURE);
    }
    long sizeFile = ftell(file);
    rewind(file);
    if (sizeFile == -1) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), pathFile);
        fclose(file);
        exit(EXIT_FAILURE);
    }
    return sizeFile;
```

```c
}

long encryptingFile(char *scriptName, bytesList *keyBytes, FILE
*fileToEncrypt, char *pathFile, char *SavePath) {
    long fileSize = getAmOfFileInBytes(scriptName, file-
ToEncrypt, pathFile);
    byte *bufForFile = (byte*)calloc(fileSize, sizeof(byte));
    unsigned long res = fread(bufForFile, sizeof(byte),
fileSize, fileToEncrypt);
    if ((res != fileSize) && !(feof(fileToEncrypt))) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), pathFile);
        return -1;
    }

    long EncryptedAmount = 0;
    for (long i = 0; i < fileSize; i++) {
        *(bufForFile + i) ^= *(keyBytes->elements + (i % key-
Bytes->size));
        EncryptedAmount++;
    }
    char *fileName = basename(pathFile);
    int size = strlen(SavePath) + strlen("/") + strlen("En-
crypted_") + strlen(fileName);
    char *encryptedFilePath = (char*)malloc(size*sizeof(char) +
1);
    strcpy(encryptedFilePath, SavePath);
    strcat(encryptedFilePath, "/");
    strcat(encryptedFilePath, "Encrypted_");
    strcat(encryptedFilePath, fileName);
    FILE *cryptedFile = fopen(encryptedFilePath, "w");
    if (cryptedFile == NULL) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), encryptedFilePath);
        return -1;
    }
    res = fwrite(bufForFile, sizeof(byte), EncryptedAmount,
cryptedFile);
    if (res != EncryptedAmount) {
        fclose(cryptedFile);
        return -1;
    }
    int resClose = fclose(cryptedFile);
    if (resClose != 0) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), encryptedFilePath);
        return -1;
    }
    return EncryptedAmount;
}
```

```c
void checkProcessAmount(char *scriptName, int N, int *currPro-
cessAmount) {
    if (*(currProcessAmount) == N) {
        int status = 1;
        int exitPid = wait(&status);
        while (exitPid == -1) {
            fprintf(stderr, "%d: %s: %s\n", getpid(), script-
Name, strerror(errno));
            exitPid = wait(&status);
        }
        *(currProcessAmount) -= 1;
    }
}


void bypassFiles(char *scriptName, char *path, int N, char
*SavePath, bytesList *keyBytes, dynArray *allPids, int *currPro-
cessAmount) {
    DIR *dp = opendir(path);
    if (dp == NULL) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), path);
        return;
    }

    struct dirent *d;
    while ((d = readdir(dp)) != NULL) {
        if (!strcmp(".", d->d_name) || !strcmp("..", d->d_name))
{
            continue;
        }
        int size = strlen(path) + strlen("/") + strlen(d-
>d_name);
        char *buf = (char*)malloc(size*sizeof(char) + 1);
        if (buf == NULL) {
            fprintf(stderr, "%d: %s: %s\n", getpid(), script-
Name, strerror(errno));
            continue;
        }
        strcpy(buf, path);
        strcat(buf, "/");
        strcat(buf, d->d_name);

        if (d->d_type == DT_DIR) {
            bypassFiles(scriptName, buf, N, SavePath, keyBytes,
allPids, currProcessAmount);

        } else if (d->d_type == DT_REG) {
            checkProcessAmount(scriptName, N, currProcessA-
mount);
            pid_t pid = fork();

            if (pid == 0) {
```

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                FILE *fileToCrypt = fopen(buf, "r");
                if (fileToCrypt == NULL) {
                        fprintf(stderr, "%d: %s: %s: %s\n",
getpid(), scriptName, strerror(errno), buf);
                        exit(EXIT_FAILURE);
                }
                long CryptResult = encryptingFile(scriptName,
keyBytes, fileToCrypt, buf, SavePath);
                if (CryptResult >= 0) {
                        fprintf(stdout, "%d: %s: %lo\n", getpid(),
buf, CryptResult);
                }
                int res = fclose(fileToCrypt);
                if (res != 0) {
                        fprintf(stderr, "%d: %s: %s: %s\n",
getpid(), scriptName, strerror(errno), buf);
                        exit(EXIT_FAILURE);
                }
                exit(EXIT_SUCCESS);
            }
            else {
                *(currProcessAmount) += 1;
                pushEnd(allPids, pid);
                if (allPids == NULL) {
                        fprintf(stderr, "%d: %s: %s: %s\n",
getpid(), scriptName, strerror(errno), buf);
                        free(buf);
                        continue;
                }
            }
        }
        free(buf);
    }
    int res = closedir(dp);
    if (res == -1) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), path);
    }
    return;
}

bytesList* getKeyBytes(char *scriptName, char *key) {
    byte* keyBytes;
    unsigned long sizeKeyBytes = strlen(key) <= 8 ? 1:
strlen(key)/8 + 1;
    keyBytes = (byte*)malloc(sizeof(byte)*sizeKeyBytes);
    if (keyBytes == NULL) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), "Key");
        free(keyBytes);
        exit(EXIT_FAILURE);
    }
```

```c
    char* bufByte = (char*)malloc(8);
    for (unsigned long i = 0; i < sizeKeyBytes; i++) {
        strncpy(bufByte, (key + i*8), 8);
        *(keyBytes + i) = strtol(bufByte, NULL, 2);
    }
    bytesList *keyList = malloc(sizeof(keyList));
    keyList->size = sizeKeyBytes;
    keyList->elements = keyBytes;

    free(bufByte);
    return keyList;
}


void ResultCalculation(char *scriptName, char *path, int N, char
*SavePath, char *pathToKey) {
    FILE *fileKey = fopen(pathToKey, "r");
    if (fileKey == NULL) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), pathToKey);
        exit(EXIT_FAILURE);
    }
    long sizeKey = getAmOfFileInBytes(scriptName, fileKey, path-
ToKey);
    char *buf = (char*)malloc(sizeof(char)*sizeKey);
    memset(buf, 0, sizeof(char)*sizeKey);
    if (buf == NULL) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), pathToKey);
        free(buf);
        fclose(fileKey);
        exit(EXIT_FAILURE);
    }
    size_t resRead = fread(buf, sizeof(char), sizeKey, fileKey);
    if (resRead != sizeKey) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, "Error reading", pathToKey);
        fclose(fileKey);
        exit(EXIT_FAILURE);
    }
    int res = fclose(fileKey);
    if (res != 0) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), pathToKey);
        exit(EXIT_FAILURE);
    }
    char *key = (char*)malloc(sizeof(char)*strlen(buf));
    memset(key, 0, sizeof(char)*strlen(buf));
    if (key == NULL) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno), pathToKey);
        free(key);
```

```c
            exit(EXIT_FAILURE);
        }
    for (int i = 0;  i < strlen(buf); i++) {
        if (*(buf + i) == '1') {
            strcat(key, "1");
        }
        else
            if (*(buf + i) == '0') {
                strcat(key, "0");
            }
    }
    free(buf);
    bytesList* keyBytes  = getKeyBytes(scriptName, key);

    free(key);
    int currProcessAmount = 1;
    dynArray *allPids = createList();
    bypassFiles(scriptName, path, N, SavePath, keyBytes, all-
Pids, &currProcessAmount);
    int currPid;
    dynArray *inter = allPids;
    while (allPids->size >= 1) {
        currPid = popBegin(inter);
        waitpid(currPid, 0, 0);
    }
}

char *getPath(char *path, char *scriptName) {
    char *fullPath = realpath(path, NULL);
    if (fullPath == NULL) {
        fprintf(stderr, "%d: %s: %s: %s\n", getpid(), script-
Name, strerror(errno),  path);
        exit(EXIT_FAILURE);
    }
    return fullPath;
}

int main(int argc, char **argv) {
    /*
        argv[0]: имя скрипта
        argv[1]: путь к проверяемой дирректории
        argv[2]: максимальное количество одновременно работающих
процессов
        argv[3]: путь к директории сохранения
        argv[4]: путь к файлу с ключом
     */

    char *scriptName = basename(argv[0]);
    if (argc < 5) {
        fprintf(stderr, "%d: %s: %s\n", getpid(), scriptName,
"Incorrect number of arguments");
        exit(EXIT_FAILURE);
```

```
    }
    char *dirpath = getPath(argv[1], scriptName);
    int ProcessAmount = atoi(argv[2]);
    if (ProcessAmount <= 1) {
        fprintf(stderr, "%d: %s: %s\n", getpid(), scriptName,
"Error: Incorrect number of processes");
        exit(EXIT_FAILURE);
    }
    char *SavePath = getPath(argv[3], scriptName);
    char *KeyPath = getPath(argv[4], scriptName);
    ResultCalculation(scriptName, dirpath, ProcessAmount, Save-
Path, KeyPath);
    return 0;
}
```